

441B

# Een onderzoek naar de periodiciteit in kuberingsreeksen

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aan de hand van de JARKUS metingen van de raaien 3025 - 4600

DEEL II Resultaten berekeningen

E.R. Boschloo  
augustus 1990

\* Regressie-functies behorend bij de berekeningen met vrije amplituden

\* Kuberingswaarden per laag met dikte 5m en van het totale profiel

voor de raaien 30.25 tot en met 46.00



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3050.dat  
 uitvoerfiles:i:\scratch\boschloo\3050.uit,i:\scratch\boschloo\3050.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -335.00  
 zeegrens: 660.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3378.2 - 4.4 t  
 periode: 2 ben(t)= 3374.9 - 5.0 t  
 periode: 3 ben(t)= 3359.3 - 4.2 t + 56.7 sin(wt - 1.1)  
 periode: 4 ben(t)= 3375.2 - 4.5 t + 82.0 sin(wt + 0.4)  
 periode: 5 ben(t)= 3358.5 - 4.3 t + 91.5 sin(wt - 1.3)  
 periode: 6 ben(t)= 3278.5 - 3.2 t +113.9 sin(wt - 0.1)  
 periode: 7 ben(t)= 3412.6 - 5.0 t +112.1 sin(wt + 0.9)  
 periode: 8 ben(t)= 3335.6 - 3.9 t + 22.6 sin(wt + 1.0)  
 periode: 9 ben(t)= 3365.8 - 4.5 t +107.9 sin(wt - 0.1)  
 periode: 10 ben(t)= 3308.4 - 3.6 t +129.9 sin(wt - 1.5)  
 periode: 11 ben(t)= 3153.4 - 1.4 t +125.5 sin(wt - 0.7)  
 periode: 12 ben(t)= 3070.6 - 0.2 t +105.9 sin(wt - 0.8)  
 periode: 13 ben(t)= 3091.5 - 0.6 t +103.7 sin(wt + 1.5)  
 periode: 14 ben(t)= 3174.6 - 1.9 t +138.1 sin(wt + 0.4)  
 periode: 15 ben(t)= 3294.6 - 3.7 t +175.9 sin(wt - 0.7)  
 periode: 16 ben(t)= 3439.4 - 5.7 t +204.0 sin(wt + 1.2)  
 periode: 17 ben(t)= 3602.1 - 7.9 t +224.4 sin(wt - 0.2)  
 periode: 18 ben(t)= 3778.7 -10.3 t +240.6 sin(wt + 1.3)  
 periode: 19 ben(t)= 3967.0 -12.7 t +255.5 sin(wt - 0.5)  
 periode: 20 ben(t)= 4165.7 -15.3 t +270.4 sin(wt + 0.8)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85		
3	31.40	42.09	38.38	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	130.27	139.02	120.77	79.93	44.17	27.86	23.66	0.00	0.00	0.00	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	623.35	583.47	530.90	508.90	494.13	503.42	460.26	443.30	441.00	443.59	463.94	529.12	485.30	512.29	556.79	554.18	571.10	621.05	579.09	573.80	601.87	616.21	160.80	169.55
-1	2107.73	1930.79	1787.64	1713.27	1723.88	1715.25	1734.91	1822.66	1565.03	1787.47	1600.56	1755.67	1709.94	1987.18	1759.17	1732.40	1699.34	1750.67	1752.26	1797.63	1718.12	1900.85	1600.56	1600.56
-2	828.17	773.33	693.69	676.39	687.55	683.75	688.42	724.51	623.94	651.63	635.15	744.33	637.75	655.00	595.31	596.86	634.08	652.30	660.31	620.91	637.56	672.71	635.15	635.15
totaal	3720.93	3468.70	3171.39	2982.32	2949.73	2930.27	2907.25	2990.47	2629.97	2884.58	2699.65	3029.12	2838.26	3177.63	2955.09	2938.94	2971.13	3110.38	3104.17	3116.45	3118.35	3359.32	2699.65	2699.65

source program: SIRENE  
 stuurprogramma: a:\stuur\stuural.stu  
 sourcefile: b:\invoer\r3075.dat  
 uitvoerfiles: i:\scratch\boschloo\3075.uit, i:\scratch\boschloo\3075.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -337.00  
 zee grens: 660.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend: vrij  
 amplitude: vrij  
 fase/jr opgang: vrij

periode: 1 ben(t)= 5495.6 -26.3 t  
 periode: 2 ben(t)= 5494.8 -26.4 t  
 periode: 3 ben(t)= 5509.3 -26.4 t + 27.5 sin(wt + 0.9)  
 periode: 4 ben(t)= 5493.0 -26.2 t + 36.0 sin(wt - 1.0)  
 periode: 5 ben(t)= 5477.6 -26.1 t + 78.3 sin(wt - 1.4)  
 periode: 6 ben(t)= 5483.3 -26.1 t + 27.9 sin(wt - 1.6)  
 periode: 7 ben(t)= 5546.1 -27.0 t + 49.9 sin(wt + 1.3)  
 periode: 8 ben(t)= 5546.5 -26.9 t + 49.8 sin(wt + 0.1)  
 periode: 9 ben(t)= 5496.9 -26.2 t + 22.9 sin(wt + 0.3)  
 periode: 10 ben(t)= 5518.6 -26.6 t + 15.7 sin(wt + 1.2)  
 periode: 11 ben(t)= 5590.4 -27.5 t + 34.6 sin(wt - 1.1)  
 periode: 12 ben(t)= 5623.5 -28.0 t + 53.2 sin(wt - 0.5)  
 periode: 13 ben(t)= 5604.3 -27.8 t + 71.4 sin(wt - 0.5)  
 periode: 14 ben(t)= 5557.4 -27.3 t + 85.8 sin(wt - 1.0)  
 periode: 15 ben(t)= 5499.7 -26.6 t + 94.6 sin(wt + 1.3)  
 periode: 16 ben(t)= 5437.9 -25.7 t + 99.4 sin(wt + 0.1)  
 periode: 17 ben(t)= 5373.7 -24.9 t + 102.4 sin(wt - 1.3)  
 periode: 18 ben(t)= 5307.5 -23.9 t + 105.2 sin(wt + 0.2)  
 periode: 19 ben(t)= 5238.9 -23.0 t + 108.4 sin(wt + 1.5)  
 periode: 20 ben(t)= 5167.9 -22.0 t + 112.2 sin(wt - 0.4)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
3	41.98	47.59	45.63	46.31	54.74	45.33	39.62	39.63	18.05	1.20	1.61	1.16	1.87	1.80	2.75	3.28	2.75	5.01	11.28	7.95	16.25	11.42
2	312.34	316.01	306.90	307.57	310.03	306.62	295.09	288.66	272.83	239.91	203.30	179.03	169.17	179.16	235.89	234.35	235.89	264.34	274.73	252.47	274.47	267.42
1	886.26	840.99	836.06	810.37	783.73	842.02	820.77	824.65	779.61	707.31	692.76	741.36	681.71	718.17	708.06	669.63	708.06	664.63	633.90	597.74	625.84	619.31
-1	1928.00	1857.72	1901.26	1861.67	1837.74	1923.77	1819.06	1843.34	1812.14	1722.33	1821.11	1906.39	1799.90	1768.59	1756.24	1855.47	1880.33	1765.52	1738.56	1816.09	1777.23	1904.64
-2	827.67	668.03	699.22	710.38	739.06	723.83	722.71	728.60	691.28	659.39	668.87	761.42	676.94	654.23	638.71	646.74	635.17	661.60	660.28	661.83	642.24	726.52
totaal	3996.25	3730.35	3789.07	3736.30	3725.30	3841.57	3697.25	3724.87	3573.92	3330.14	3387.65	3589.35	3329.59	3321.96	3341.65	3409.47	3462.20	3361.10	3318.74	3336.09	3336.03	3529.31



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3125.dat  
 uitvoerfiles:i:\scratch\boschloo\3125.uit,i:\scratch\boschloo\3125.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -270.00  
 zeegrens: 660.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3836.7 -12.7 t  
 periode: 2 ben(t)= 3835.7 -12.9 t  
 periode: 3 ben(t)= 3867.9 -13.2 t + 87.1 sin(wt + 0.3)  
 periode: 4 ben(t)= 3843.3 -12.8 t + 75.6 sin(wt + 1.5)  
 periode: 5 ben(t)= 3836.3 -12.7 t + 11.4 sin(wt - 0.7)  
 periode: 6 ben(t)= 3917.7 -13.8 t + 80.4 sin(wt + 0.7)  
 periode: 7 ben(t)= 3900.8 -13.6 t + 43.0 sin(wt - 1.5)  
 periode: 8 ben(t)= 4055.8 -15.6 t +118.7 sin(wt + 0.9)  
 periode: 9 ben(t)= 3824.9 -12.5 t +118.7 sin(wt + 1.1)  
 periode: 10 ben(t)= 3678.3 -10.6 t + 77.7 sin(wt - 0.0)  
 periode: 11 ben(t)= 3811.8 -12.4 t + 22.9 sin(wt + 0.2)  
 periode: 12 ben(t)= 3989.0 -14.8 t + 49.3 sin(wt - 0.9)  
 periode: 13 ben(t)= 4048.0 -15.6 t + 78.7 sin(wt - 1.2)  
 periode: 14 ben(t)= 4001.2 -15.0 t + 97.5 sin(wt + 1.3)  
 periode: 15 ben(t)= 3887.9 -13.5 t +111.9 sin(wt + 0.3)  
 periode: 16 ben(t)= 3733.2 -11.4 t +125.1 sin(wt - 0.9)  
 periode: 17 ben(t)= 3550.5 - 8.9 t +138.6 sin(wt + 0.8)  
 periode: 18 ben(t)= 3346.8 - 6.2 t +152.9 sin(wt - 0.8)  
 periode: 19 ben(t)= 3125.8 - 3.2 t +168.5 sin(wt + 0.5)  
 periode: 20 ben(t)= 2889.6 - 0.0 t +185.6 sin(wt - 1.4)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
3	0.07	2.38	3.81	3.52	12.93	18.02	16.50	7.07	1.48	1.59	0.00	0.00	0.00	0.00	4.29	16.01	10.57	17.96	16.70	0.00	0.00	0.00
2	65.81	72.31	75.24	84.80	106.98	113.92	129.94	133.00	146.72	151.78	126.84	113.76	93.52	83.98	101.65	115.80	117.38	125.26	117.15	28.55	49.73	62.10
1	487.34	470.76	516.45	557.36	570.70	560.02	553.74	523.97	521.13	511.58	450.56	462.69	452.20	492.38	502.73	499.53	430.15	396.71	379.83	358.08	432.73	417.75
-1	1539.00	1577.52	1891.15	1859.58	1667.67	1730.07	1779.33	1623.73	1642.13	1544.84	1675.93	1574.25	1629.25	1625.06	1680.13	1672.83	1445.18	1530.12	1573.23	1638.67	1642.08	1891.00
-2	713.83	625.48	690.25	666.76	636.00	676.26	684.17	663.18	626.21	660.49	651.26	644.55	648.33	631.76	571.20	607.44	522.05	616.00	623.08	661.83	675.58	707.00
totaal	2806.06	2748.45	3176.91	3172.02	2994.28	3098.28	3163.68	2950.95	2937.66	2870.28	2904.58	2795.25	2823.31	2833.19	2860.00	2911.62	2525.33	2686.05	2709.99	2687.13	2800.13	3077.85





source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3175.dat  
 uitvoerfiles:i:\scratch\boschloo\3175.uit,i:\scratch\boschloo\3175.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -245.00  
 zee grens: 690.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 2150.4 + 9.1 t  
 periode: 2 ben(t)= 2150.4 + 9.2 t  
 periode: 3 ben(t)= 2123.4 + 9.5 t + 61.0 sin(wt - 1.5)  
 periode: 4 ben(t)= 2145.2 + 9.2 t + 74.1 sin(wt - 1.0)  
 periode: 5 ben(t)= 2142.8 + 9.2 t + 43.2 sin(wt - 1.2)  
 periode: 6 ben(t)= 2031.6 +10.8 t +115.1 sin(wt + 0.7)  
 periode: 7 ben(t)= 2379.6 + 6.0 t +133.8 sin(wt - 1.2)  
 periode: 8 ben(t)= 2225.4 + 8.2 t + 63.6 sin(wt + 0.2)  
 periode: 9 ben(t)= 2157.3 + 9.1 t + 38.2 sin(wt - 1.3)  
 periode: 10 ben(t)= 2345.6 + 6.5 t + 91.5 sin(wt + 0.1)  
 periode: 11 ben(t)= 2532.6 + 4.0 t +122.9 sin(wt + 1.1)  
 periode: 12 ben(t)= 2543.3 + 3.9 t +128.6 sin(wt + 1.4)  
 periode: 13 ben(t)= 2449.5 + 5.3 t +125.3 sin(wt + 1.1)  
 periode: 14 ben(t)= 2328.4 + 6.9 t +118.6 sin(wt + 0.5)  
 periode: 15 ben(t)= 2207.6 + 8.6 t +110.9 sin(wt - 0.4)  
 periode: 16 ben(t)= 2093.5 +10.1 t +104.5 sin(wt + 1.6)  
 periode: 17 ben(t)= 1986.0 +11.5 t +100.5 sin(wt + 0.2)  
 periode: 18 ben(t)= 1883.6 +12.8 t + 98.7 sin(wt - 1.4)  
 periode: 19 ben(t)= 1784.5 +14.1 t + 98.8 sin(wt + 0.0)  
 periode: 20 ben(t)= 1687.1 +15.4 t +100.6 sin(wt + 1.3)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	1.13	3.10	6.08	5.84	12.33	16.50	12.91	18.32	22.48
2	23.49	22.89	2.40	0.51	22.04	23.61	43.12	72.07	87.72	87.09	108.49
	118.66	107.26	109.34	122.19	136.75	136.51	147.69	126.74	123.75	132.96	142.49
1	452.71	441.65	369.13	401.44	426.97	420.56	486.91	517.13	502.88	468.69	497.41
	474.30	466.87	493.69	479.19	493.32	510.78	444.59	415.98	497.49	459.90	478.60
-1	1761.15	1564.29	1476.01	1590.37	1670.26	1704.30	1802.20	1802.83	1580.50	1529.08	1641.57
	1648.76	1808.13	1644.94	1444.69	1538.00	1549.32	1576.87	1635.17	1731.81	1723.21	1625.53
-2	731.27	567.16	584.73	619.70	642.40	665.45	662.05	716.92	655.50	649.01	659.63
	641.29	639.87	605.47	565.81	632.00	524.74	672.17	660.33	634.39	660.67	663.66
totaal	2968.63	2595.99	2432.26	2612.03	2761.67	2813.93	2994.28	3108.95	2826.60	2733.86	2907.10
	2883.01	3022.13	2854.57	2614.99	2806.15	2727.19	2853.65	2854.73	3000.35	2995.05	2932.75



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3225.dat  
 uitvoerfiles:i:\scratch\boschloo\3225.uit,i:\scratch\boschloo\3225.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -262.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4222.9 - 5.3 t  
 periode: 2 ben(t)= 4222.3 - 5.4 t  
 periode: 3 ben(t)= 4216.1 - 5.2 t + 16.0 sin(wt - 1.4)  
 periode: 4 ben(t)= 4219.3 - 5.2 t + 82.0 sin(wt - 0.6)  
 periode: 5 ben(t)= 4221.5 - 5.2 t + 89.5 sin(wt - 0.7)  
 periode: 6 ben(t)= 4130.1 - 4.0 t + 90.0 sin(wt + 0.7)  
 periode: 7 ben(t)= 4250.6 - 5.6 t + 67.6 sin(wt + 0.5)  
 periode: 8 ben(t)= 4045.6 - 3.0 t +120.4 sin(wt + 0.4)  
 periode: 9 ben(t)= 4233.8 - 5.6 t +164.9 sin(wt + 0.9)  
 periode: 10 ben(t)= 4609.8 -10.6 t +194.2 sin(wt - 0.1)  
 periode: 11 ben(t)= 4776.8 -12.7 t +188.9 sin(wt + 1.0)  
 periode: 12 ben(t)= 4684.7 -11.4 t +170.2 sin(wt + 1.2)  
 periode: 13 ben(t)= 4524.8 - 9.1 t +159.4 sin(wt + 0.8)  
 periode: 14 ben(t)= 4386.7 - 7.2 t +151.4 sin(wt + 0.1)  
 periode: 15 ben(t)= 4281.7 - 5.7 t +141.8 sin(wt - 0.9)  
 periode: 16 ben(t)= 4203.3 - 4.7 t +132.1 sin(wt + 1.0)  
 periode: 17 ben(t)= 4144.7 - 3.9 t +123.8 sin(wt - 0.4)  
 periode: 18 ben(t)= 4100.2 - 3.4 t +117.6 sin(wt + 1.1)  
 periode: 19 ben(t)= 4066.1 - 3.0 t +113.3 sin(wt - 0.7)  
 periode: 20 ben(t)= 4039.7 - 2.7 t +110.5 sin(wt + 0.5)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	0.00	0.00	0.00	0.00	0.00	0.59	1.94	6.21	6.18	7.09	16.39
	18.47	20.99	24.35	20.62	23.52	22.04	30.14	38.70	36.89	36.31	31.80
3	173.98	142.82	134.51	184.86	201.99	213.94	217.63	209.15	193.43	207.45	219.08
	214.14	219.82	220.89	212.74	205.61	208.25	193.47	193.34	189.96	188.86	183.29
2	409.28	412.36	413.18	409.44	409.88	385.85	385.61	385.22	374.87	384.74	385.60
	394.13	379.19	376.63	358.19	360.32	347.29	335.93	345.58	331.40	322.53	331.58
1	823.16	794.48	775.13	752.22	725.61	708.37	724.90	782.60	767.06	754.44	747.66
	770.82	747.12	727.15	653.26	654.43	675.12	728.26	716.24	692.91	656.91	665.92
-1	1891.58	1740.70	1703.69	1786.52	1797.85	1731.68	1729.63	2052.74	2054.58	1926.29	1951.56
	1962.16	1931.93	1731.92	1666.47	1738.40	1752.29	2007.57	2083.81	1928.52	1827.55	1658.05
-2	713.58	625.60	649.77	631.18	648.96	648.90	608.06	737.04	754.92	725.58	690.26
	696.63	681.66	669.88	578.11	713.55	554.69	609.42	657.31	680.43	667.61	672.70
totaal	4011.59	3715.96	3676.28	3764.22	3784.29	3689.34	3667.76	4172.97	4151.04	4005.58	4010.54
	4056.34	3980.70	3750.81	3489.39	3695.83	3559.68	3904.78	4034.97	3860.12	3699.77	3543.34

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3250.dat  
 uitvoerfiles:i:\scratch\boschloo\3250.uit,i:\scratch\boschloo\3250.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -288.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5907.8 -24.2 t  
 periode: 2 ben(t)= 5907.0 -24.4 t  
 periode: 3 ben(t)= 5914.2 -24.3 t + 17.9 sin(wt + 0.4)  
 periode: 4 ben(t)= 5905.5 -24.2 t + 33.3 sin(wt + 0.9)  
 periode: 5 ben(t)= 5893.4 -24.0 t + 51.4 sin(wt + 0.0)  
 periode: 6 ben(t)= 5946.2 -24.7 t + 36.5 sin(wt + 0.5)  
 periode: 7 ben(t)= 5819.9 -23.0 t + 51.6 sin(wt - 1.3)  
 periode: 8 ben(t)= 5867.2 -23.7 t + 54.2 sin(wt - 0.0)  
 periode: 9 ben(t)= 5899.9 -24.2 t + 66.0 sin(wt - 0.1)  
 periode: 10 ben(t)= 5913.2 -24.4 t + 63.6 sin(wt - 1.2)  
 periode: 11 ben(t)= 5944.2 -24.7 t + 58.4 sin(wt + 0.0)  
 periode: 12 ben(t)= 5970.0 -25.0 t + 49.5 sin(wt + 0.6)  
 periode: 13 ben(t)= 5971.5 -25.0 t + 36.7 sin(wt + 0.7)  
 periode: 14 ben(t)= 5952.2 -24.8 t + 27.2 sin(wt + 0.7)  
 periode: 15 ben(t)= 5920.2 -24.4 t + 27.0 sin(wt + 0.3)  
 periode: 16 ben(t)= 5880.9 -23.9 t + 32.2 sin(wt - 0.6)  
 periode: 17 ben(t)= 5836.6 -23.3 t + 38.1 sin(wt + 1.3)  
 periode: 18 ben(t)= 5788.4 -22.7 t + 43.5 sin(wt - 0.3)  
 periode: 19 ben(t)= 5736.8 -22.0 t + 48.7 sin(wt + 1.1)  
 periode: 20 ben(t)= 5681.9 -21.2 t + 53.8 sin(wt - 0.8)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	21.63	21.18	23.96	27.56	33.02	32.68	33.81	37.21	36.49	36.29	35.39	37.57	36.07	33.81	33.83	35.99	34.41	35.23	31.36	6.62	9.27	0.00
3	178.30	182.64	183.04	185.40	189.60	190.89	192.21	192.42	187.15	185.97	177.39	178.47	156.62	152.93	148.74	147.00	142.10	138.22	134.50	108.69	109.12	108.63
2	326.69	335.74	339.33	344.56	352.62	346.54	342.63	323.08	320.14	325.50	307.54	309.03	280.66	284.56	284.43	292.74	267.30	266.25	265.02	228.97	240.70	325.95
1	942.99	970.28	975.09	981.51	937.12	915.12	908.50	883.75	907.28	846.79	859.84	888.85	862.29	859.78	843.10	809.68	833.22	820.93	805.27	794.05	835.98	871.42
-1	2139.83	2159.25	2224.67	2053.79	2019.34	2033.76	1801.90	2037.00	2135.53	1978.26	2022.13	1999.33	2004.71	1952.32	1841.20	1893.70	1955.67	1989.33	2161.55	1965.61	1892.30	2075.10
-2	764.17	667.00	707.68	716.51	733.91	724.81	638.60	747.79	736.75	743.23	724.63	705.41	727.00	727.83	663.79	771.25	691.33	651.67	667.71	686.83	728.40	726.55
totaal	4373.61	4336.09	4453.77	4309.32	4265.61	4243.81	3917.66	4221.24	4323.34	4116.04	4126.91	4118.66	4067.35	4011.24	3815.08	3950.36	3924.03	3901.63	4065.40	3790.78	3815.78	4107.65

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3275.dat  
 uitvoerfiles:i:\scratch\boschloo\3275.uit,i:\scratch\boschloo\3275.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -220.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5548.4 -23.2 t  
 periode: 2 ben(t)= 5548.3 -23.2 t  
 periode: 3 ben(t)= 5545.1 -23.2 t + 29.5 sin(wt - 0.7)  
 periode: 4 ben(t)= 5545.7 -23.2 t + 33.9 sin(wt - 1.2)  
 periode: 5 ben(t)= 5536.0 -23.1 t + 57.9 sin(wt - 1.3)  
 periode: 6 ben(t)= 5609.4 -24.0 t + 64.4 sin(wt + 0.9)  
 periode: 7 ben(t)= 5522.3 -22.8 t + 19.4 sin(wt - 0.1)  
 periode: 8 ben(t)= 5632.6 -24.4 t + 62.6 sin(wt - 1.2)  
 periode: 9 ben(t)= 5530.7 -23.1 t + 93.5 sin(wt - 1.0)  
 periode: 10 ben(t)= 5390.4 -21.1 t + 83.8 sin(wt + 0.9)  
 periode: 11 ben(t)= 5380.8 -20.9 t + 52.2 sin(wt - 1.5)  
 periode: 12 ben(t)= 5454.4 -22.0 t + 43.3 sin(wt + 0.9)  
 periode: 13 ben(t)= 5510.7 -22.9 t + 81.8 sin(wt + 0.2)  
 periode: 14 ben(t)= 5530.2 -23.3 t +116.7 sin(wt - 0.5)  
 periode: 15 ben(t)= 5524.2 -23.3 t +136.9 sin(wt - 1.4)  
 periode: 16 ben(t)= 5502.4 -23.0 t +146.6 sin(wt + 0.5)  
 periode: 17 ben(t)= 5469.6 -22.5 t +151.3 sin(wt - 1.0)  
 periode: 18 ben(t)= 5428.6 -21.9 t +154.4 sin(wt + 0.5)  
 periode: 19 ben(t)= 5380.7 -21.2 t +157.3 sin(wt - 1.3)  
 periode: 20 ben(t)= 5326.9 -20.4 t +160.8 sin(wt - 0.1)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	44.39	43.73	41.89	44.74	44.23	44.16	45.01	46.22	46.03	35.24	51.70	46.26	47.80	47.80	37.65	45.43	47.04	46.29	46.15	35.73	37.65	37.50
3	271.73	272.43	273.28	278.36	282.17	283.16	283.66	283.25	282.73	279.70	280.61	273.27	249.78	249.78	239.35	248.65	255.68	250.03	251.03	226.70	227.12	226.49
2	433.71	433.78	443.37	448.56	456.53	463.52	453.60	445.61	434.36	432.09	418.28	415.81	388.57	388.57	385.99	397.77	403.48	396.12	394.04	365.38	370.92	372.04
1	713.60	728.02	713.86	754.17	737.64	735.74	671.79	667.31	653.25	618.93	632.76	617.16	607.15	607.15	606.48	612.23	666.69	614.12	582.98	572.69	638.24	633.84
-1	1912.73	2091.54	2066.12	1994.45	1812.53	1836.04	1711.73	1756.01	1713.90	1623.66	1760.25	1649.41	1821.27	1675.56	1686.90	1780.90	1760.75	1610.66	1759.90	1764.17	1858.27	1890.51
-2	692.67	648.38	669.03	684.00	682.88	665.30	595.47	645.26	617.03	596.30	632.15	606.49	687.58	585.95	611.74	751.29	566.27	626.40	639.00	666.57	695.37	698.89
totaal	4068.83	4217.88	4207.55	4204.27	4015.98	4027.90	3761.25	3843.66	3747.31	3585.92	3775.75	3608.40	3802.15	3554.80	3568.11	3836.26	3699.90	3543.63	3673.10	3631.24	3827.58	3859.27

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3300.dat  
 uitvoerfiles:i:\scratch\boschloo\3300.uit,i:\scratch\boschloo\3300.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -128.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3664.1 -18.5 t  
 periode: 2 ben(t)= 3663.4 -18.6 t  
 periode: 3 ben(t)= 3680.5 -18.7 t + 53.6 sin(wt - 1.1)  
 periode: 4 ben(t)= 3659.6 -18.4 t + 72.5 sin(wt - 0.8)  
 periode: 5 ben(t)= 3675.2 -18.7 t + 53.3 sin(wt - 0.2)  
 periode: 6 ben(t)= 3700.9 -18.9 t + 71.7 sin(wt - 0.6)  
 periode: 7 ben(t)= 3715.9 -19.1 t + 60.4 sin(wt + 0.2)  
 periode: 8 ben(t)= 3758.0 -19.8 t + 58.1 sin(wt - 1.5)  
 periode: 9 ben(t)= 3658.6 -18.4 t + 54.5 sin(wt + 1.1)  
 periode: 10 ben(t)= 3565.7 -17.1 t + 66.2 sin(wt - 0.5)  
 periode: 11 ben(t)= 3557.5 -17.0 t + 83.5 sin(wt + 0.3)  
 periode: 12 ben(t)= 3594.2 -17.7 t +107.3 sin(wt + 0.4)  
 periode: 13 ben(t)= 3622.4 -18.2 t +125.2 sin(wt + 0.2)  
 periode: 14 ben(t)= 3635.0 -18.4 t +129.6 sin(wt - 0.4)  
 periode: 15 ben(t)= 3638.1 -18.5 t +124.3 sin(wt - 1.4)  
 periode: 16 ben(t)= 3634.9 -18.4 t +115.8 sin(wt + 0.5)  
 periode: 17 ben(t)= 3627.1 -18.3 t +107.8 sin(wt - 0.9)  
 periode: 18 ben(t)= 3615.4 -18.1 t +101.5 sin(wt + 0.6)  
 periode: 19 ben(t)= 3600.8 -17.8 t + 97.0 sin(wt - 1.2)  
 periode: 20 ben(t)= 3583.5 -17.5 t + 94.1 sin(wt + 0.0)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
3	28.32	27.42	25.20	31.36	31.40	31.63	32.26	31.07	31.05	31.69	15.39	14.91	8.57	8.59	9.05	9.77	10.85	13.16	13.34	8.78	8.90	8.29
2	118.65	118.50	120.67	123.13	124.45	126.02	126.68	128.19	119.19	118.02	79.62	79.87	54.39	55.29	60.85	63.55	71.94	71.26	70.23	56.83	55.03	54.18
1	281.20	282.61	281.39	265.10	312.50	286.60	248.97	271.95	213.69	207.77	187.53	234.34	195.33	202.08	232.95	275.17	269.33	208.42	180.97	176.17	162.26	132.02
-1	1437.05	1395.24	1466.66	1435.29	1635.88	1485.50	1190.59	1246.47	1222.06	1180.63	1319.37	1374.21	1333.33	1158.33	1351.57	1375.70	1309.25	1450.64	1228.96	1418.82	1392.30	1299.17
-2	605.20	589.90	622.78	615.94	654.00	640.75	607.87	653.78	596.96	547.14	579.23	582.29	626.63	545.04	541.90	647.00	511.14	577.02	553.32	593.70	601.28	590.00
totaal	2470.42	2413.67	2516.70	2470.82	2758.22	2570.50	2206.37	2331.46	2182.94	2085.25	2181.14	2285.63	2218.26	1969.33	2196.32	2371.19	2172.51	2320.50	2046.82	2254.30	2219.78	2083.66

source program:SIRENE  
 stuurprogramma:a:\stuur\stural.stu  
 sourcefile:b:\invoer\r3325.dat  
 uitvoerfiles:i:\scratch\boschloo\3325.uit,i:\scratch\boschloo\3325.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -132.00  
 zeegrens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 2812.7 - 7.5 t  
 periode: 2 ben(t)= 2813.2 - 7.4 t  
 periode: 3 ben(t)= 2818.4 - 7.6 t + 17.8 sin(wt - 1.1)  
 periode: 4 ben(t)= 2809.2 - 7.5 t + 40.6 sin(wt + 1.3)  
 periode: 5 ben(t)= 2809.7 - 7.5 t + 7.4 sin(wt + 0.9)  
 periode: 6 ben(t)= 2716.4 - 6.2 t + 92.1 sin(wt + 0.3)  
 periode: 7 ben(t)= 2981.3 - 9.8 t +101.7 sin(wt - 1.3)  
 periode: 8 ben(t)= 2889.3 - 8.5 t + 66.3 sin(wt + 0.2)  
 periode: 9 ben(t)= 2818.9 - 7.5 t + 47.6 sin(wt - 0.2)  
 periode: 10 ben(t)= 2871.1 - 8.2 t + 46.7 sin(wt + 1.3)  
 periode: 11 ben(t)= 2936.5 - 9.2 t + 52.4 sin(wt - 0.9)  
 periode: 12 ben(t)= 2939.5 - 9.3 t + 52.2 sin(wt - 0.6)  
 periode: 13 ben(t)= 2904.5 - 8.8 t + 48.5 sin(wt - 0.7)  
 periode: 14 ben(t)= 2861.6 - 8.2 t + 43.8 sin(wt - 1.3)  
 periode: 15 ben(t)= 2821.2 - 7.7 t + 39.5 sin(wt + 0.9)  
 periode: 16 ben(t)= 2784.8 - 7.2 t + 36.3 sin(wt - 0.3)  
 periode: 17 ben(t)= 2751.7 - 6.7 t + 34.3 sin(wt + 1.4)  
 periode: 18 ben(t)= 2720.9 - 6.3 t + 33.2 sin(wt - 0.3)  
 periode: 19 ben(t)= 2691.7 - 5.9 t + 32.9 sin(wt + 1.0)  
 periode: 20 ben(t)= 2663.3 - 5.5 t + 33.2 sin(wt - 0.9)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	
3	0.00	0.00	0.17	0.00	0.00	0.00	0.75	2.89	7.08	7.58	2.97	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	125.96	133.64	131.15	107.12	96.26	99.76	101.89	108.15	106.78	106.78	73.46	63.19	47.15	44.61	53.79	60.45	59.31	66.25	69.09	58.63	46.88	46.29	
1	321.69	299.07	276.34	225.40	267.20	286.03	305.33	318.74	251.79	247.24	166.51	262.08	224.60	236.03	259.05	305.16	271.32	227.35	224.67	211.88	191.36	189.99	
-1	1313.50	1282.53	1196.12	1105.79	1424.61	1450.90	1344.57	1338.19	1406.35	1152.40	1235.34	1324.58	1423.00	1378.75	1285.88	1292.71	1221.00	1310.72	1403.38	1390.33	1332.55	1309.67	
-2	628.00	623.42	642.44	618.46	627.89	640.93	601.83	606.81	600.48	572.13	571.42	582.54	623.21	611.42	550.38	594.67	549.29	584.43	605.48	582.77	623.70	605.67	
totaal	2389.16	2338.66	2246.22	2056.77	2415.96	2477.62	2354.37	2374.77	2372.49	2086.14	2049.71	2232.61	2317.96	2270.81	2149.08	2252.99	2100.92	2188.76	2302.62	2243.61	2194.49	2151.61	

source program: SIRENE  
 stuurprogramma: a:\stuur\stuural.stu  
 sourcefile: b:\invoer\r3350.dat  
 uitvoerfiles: i:\scratch\boschloo\3350.uit, i:\scratch\boschloo\3350.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -200.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend: vrij  
 amplitude: vrij  
 fase/jr opgang: vrij

periode: 1 ben(t)= 4281.9 - 9.4 t  
 periode: 2 ben(t)= 4282.3 - 9.3 t  
 periode: 3 ben(t)= 4268.9 - 9.2 t + 35.8 sin(wt + 0.4)  
 periode: 4 ben(t)= 4279.6 - 9.4 t + 29.9 sin(wt + 1.1)  
 periode: 5 ben(t)= 4258.1 - 9.1 t + 59.5 sin(wt + 0.8)  
 periode: 6 ben(t)= 4190.0 - 8.2 t + 91.9 sin(wt + 0.1)  
 periode: 7 ben(t)= 4242.4 - 8.9 t + 57.2 sin(wt + 0.3)  
 periode: 8 ben(t)= 4111.5 - 7.1 t +101.8 sin(wt - 1.5)  
 periode: 9 ben(t)= 4297.8 - 9.6 t +106.7 sin(wt + 1.5)  
 periode: 10 ben(t)= 4482.3 -12.1 t + 94.9 sin(wt + 0.1)  
 periode: 11 ben(t)= 4462.7 -11.8 t + 71.3 sin(wt + 0.7)  
 periode: 12 ben(t)= 4348.8 -10.2 t + 71.5 sin(wt + 0.5)  
 periode: 13 ben(t)= 4275.9 - 9.1 t + 86.1 sin(wt + 0.0)  
 periode: 14 ben(t)= 4260.5 - 8.9 t + 94.4 sin(wt - 0.7)  
 periode: 15 ben(t)= 4284.9 - 9.2 t + 95.7 sin(wt + 1.4)  
 periode: 16 ben(t)= 4335.3 - 9.9 t + 94.7 sin(wt + 0.1)  
 periode: 17 ben(t)= 4403.8 -10.8 t + 94.3 sin(wt - 1.4)  
 periode: 18 ben(t)= 4485.9 -12.0 t + 95.6 sin(wt + 0.0)  
 periode: 19 ben(t)= 4578.9 -13.3 t + 98.8 sin(wt + 1.3)  
 periode: 20 ben(t)= 4681.1 -14.7 t +103.6 sin(wt - 0.7)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	15.59	16.76	14.03	10.89	2.14	6.99	7.36	7.84	9.60	8.78	9.09	12.12	10.20	8.63	10.33	12.67	13.62	12.05	9.73	1.86	2.48	1.59
3	276.09	283.22	261.44	241.00	213.20	215.97	212.83	217.62	223.21	213.21	215.58	228.80	225.63	216.52	216.80	225.44	227.43	226.08	208.94	181.31	191.39	173.01
2	530.73	523.55	473.09	454.10	439.56	426.36	425.66	431.54	434.60	440.03	436.50	433.61	417.51	418.25	427.17	435.72	429.96	420.39	405.08	385.23	381.83	378.42
1	676.16	615.49	583.78	550.72	531.43	552.03	568.74	613.87	601.24	570.48	548.20	544.14	586.87	632.93	591.45	600.61	563.33	492.35	527.92	516.96	510.11	508.25
-1	1640.25	1592.38	1646.17	1416.33	1477.04	1627.92	1671.27	1896.80	1753.66	1799.70	1660.27	1719.09	1784.40	1733.37	1623.37	1593.43	1723.32	1654.39	1730.57	1727.29	1688.24	1621.77
-2	699.50	679.50	692.72	623.67	741.57	731.33	686.92	698.53	654.44	675.31	713.30	694.10	667.10	658.74	589.53	640.87	693.43	728.11	650.45	661.60	653.05	648.73
totaal	3838.32	3710.90	3671.24	3296.71	3404.95	3560.60	3572.78	3866.21	3676.75	3707.51	3582.94	3631.85	3691.70	3668.44	3458.65	3508.75	3651.08	3533.36	3532.70	3474.25	3427.08	3331.77



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3375.dat  
 uitvoerfiles:i:\scratch\boschloo\3375.uit,i:\scratch\boschloo\3375.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -220.00  
 zeegrens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3969.9 - 2.4 t  
 periode: 2 ben(t)= 3971.2 - 2.2 t  
 periode: 3 ben(t)= 3967.7 - 2.3 t + 9.6 sin(wt - 0.9)  
 periode: 4 ben(t)= 3967.9 - 2.4 t + 23.8 sin(wt + 1.5)  
 periode: 5 ben(t)= 3960.7 - 2.2 t + 70.4 sin(wt - 0.4)  
 periode: 6 ben(t)= 3971.0 - 2.4 t + 38.6 sin(wt - 1.1)  
 periode: 7 ben(t)= 3826.5 - 0.5 t + 96.0 sin(wt - 0.3)  
 periode: 8 ben(t)= 3810.3 - 0.1 t +111.2 sin(wt - 1.3)  
 periode: 9 ben(t)= 3984.9 - 2.5 t + 81.9 sin(wt - 1.3)  
 periode: 10 ben(t)= 4073.7 - 3.8 t + 47.6 sin(wt + 0.3)  
 periode: 11 ben(t)= 4021.5 - 3.1 t + 38.1 sin(wt + 0.3)  
 periode: 12 ben(t)= 3947.0 - 2.0 t + 71.0 sin(wt + 0.1)  
 periode: 13 ben(t)= 3922.7 - 1.5 t +101.5 sin(wt - 0.1)  
 periode: 14 ben(t)= 3939.2 - 1.7 t +117.6 sin(wt - 0.7)  
 periode: 15 ben(t)= 3977.6 - 2.1 t +121.9 sin(wt + 1.5)  
 periode: 16 ben(t)= 4028.1 - 2.8 t +120.8 sin(wt + 0.2)  
 periode: 17 ben(t)= 4086.6 - 3.6 t +118.5 sin(wt - 1.2)  
 periode: 18 ben(t)= 4151.4 - 4.6 t +117.0 sin(wt + 0.2)  
 periode: 19 ben(t)= 4221.5 - 5.6 t +116.9 sin(wt + 1.6)  
 periode: 20 ben(t)= 4296.4 - 6.6 t +118.3 sin(wt - 0.4)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	16.83	13.40	19.14	24.75	27.48	28.74	21.74	15.23	16.99	20.21	27.45	31.84	29.30	2.52	1.15	2.45	0.74	3.17	1.60	0.90	4.25	4.10
3	207.78	208.26	210.26	201.92	200.00	194.56	249.19	245.64	250.46	254.51	261.66	260.51	283.00	264.80	266.88	282.78	277.07	295.32	279.46	237.84	249.56	229.80
2	613.16	602.35	559.49	544.72	533.24	516.62	504.59	496.41	495.83	506.42	511.29	516.53	495.62	503.30	509.09	518.91	517.43	518.25	490.83	449.45	435.93	437.40
1	739.60	675.71	638.34	656.36	628.97	626.52	613.97	649.73	688.72	654.29	687.35	649.36	646.42	685.96	678.08	665.30	688.45	616.53	580.71	587.46	560.18	579.82
-1	1660.15	1583.34	1632.26	1642.77	1575.41	1556.45	1549.75	1911.91	1916.79	1813.74	1676.44	1685.76	1765.03	1788.24	1861.88	1621.15	1748.56	1605.71	1799.48	1621.87	1682.30	1830.27
-2	676.60	670.49	680.34	614.59	708.48	681.05	707.50	706.19	694.58	698.23	608.50	685.82	659.47	628.23	630.50	658.18	653.39	692.07	677.42	669.13	642.32	683.33
totaal	3914.13	3753.55	3739.83	3685.12	3673.58	3603.95	3646.75	4025.11	4063.38	3947.40	3772.68	3829.82	3878.85	3873.06	3947.57	3748.78	3885.63	3731.05	3829.50	3566.65	3574.54	3764.73



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3425.dat  
 uitvoerfiles:i:\scratch\boschloo\3425.uit,i:\scratch\boschloo\3425.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -218.00  
 zeegrens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 2918.1 + 9.5 t  
 periode: 2 ben(t)= 2917.4 + 9.4 t  
 periode: 3 ben(t)= 2879.3 +10.0 t + 79.5 sin(wt + 1.5)  
 periode: 4 ben(t)= 2914.1 + 9.5 t + 45.6 sin(wt + 1.4)  
 periode: 5 ben(t)= 2922.6 + 9.3 t +107.7 sin(wt - 0.7)  
 periode: 6 ben(t)= 2922.6 + 9.4 t + 24.5 sin(wt - 0.9)  
 periode: 7 ben(t)= 2917.7 + 9.5 t + 25.4 sin(wt + 0.7)  
 periode: 8 ben(t)= 2901.6 + 9.7 t + 31.7 sin(wt - 0.2)  
 periode: 9 ben(t)= 2907.7 + 9.5 t + 89.5 sin(wt - 0.1)  
 periode: 10 ben(t)= 2921.0 + 9.3 t +106.6 sin(wt - 1.2)  
 periode: 11 ben(t)= 2913.3 + 9.5 t +105.8 sin(wt - 0.2)  
 periode: 12 ben(t)= 2900.8 + 9.8 t + 90.5 sin(wt + 0.2)  
 periode: 13 ben(t)= 2896.5 + 9.9 t + 60.9 sin(wt - 0.1)  
 periode: 14 ben(t)= 2899.5 + 9.8 t + 28.2 sin(wt - 1.0)  
 periode: 15 ben(t)= 2909.5 + 9.6 t + 16.3 sin(wt - 0.1)  
 periode: 16 ben(t)= 2926.5 + 9.3 t + 31.7 sin(wt + 1.2)  
 periode: 17 ben(t)= 2949.4 + 8.9 t + 45.9 sin(wt - 0.4)  
 periode: 18 ben(t)= 2977.2 + 8.6 t + 56.7 sin(wt + 1.1)  
 periode: 19 ben(t)= 3009.0 + 8.1 t + 65.3 sin(wt - 0.7)  
 periode: 20 ben(t)= 3044.2 + 7.7 t + 72.7 sin(wt + 0.5)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	16.09	14.67	14.96	11.81	13.38	10.10	5.25	1.26	1.26	1.26	1.30	6.28	3.25	3.00	5.96	2.62	3.12	3.42	3.10	0.92	8.96	10.39
3	282.84	267.48	252.16	258.22	238.90	245.02	234.70	234.83	241.39	241.07	235.85	247.74	238.72	243.29	249.04	255.48	252.83	253.32	259.01	231.73	277.71	279.21
2	547.52	521.75	505.16	500.65	473.09	460.97	454.68	417.64	435.74	434.43	406.88	406.51	400.74	401.65	406.99	407.70	418.19	415.09	419.37	417.11	424.35	428.55
1	663.43	631.74	620.44	605.12	572.04	566.13	570.94	558.46	550.62	540.06	537.07	583.97	556.08	578.84	572.97	596.53	600.18	620.95	575.46	561.10	627.64	629.26
-1	1672.70	1615.07	1497.32	1512.26	1638.31	1482.53	1554.32	1612.25	1521.83	1600.22	1920.70	1743.38	1675.96	1772.91	1628.75	1787.55	1734.52	1723.47	1732.14	1869.13	1817.50	1877.17
-2	661.20	637.27	543.30	600.31	702.48	642.29	686.85	709.58	638.15	760.96	705.17	663.78	686.75	623.04	587.17	672.89	608.84	631.40	613.90	667.83	702.80	699.94
totaal	3843.79	3687.96	3433.34	3488.37	3638.20	3407.03	3506.75	3534.02	3389.00	3578.00	3806.96	3651.66	3561.50	3622.73	3450.87	3722.78	3617.68	3647.66	3602.97	3747.83	3858.95	3924.51



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3475.dat  
 uitvoerfiles:i:\scratch\boschloo\3475.uit,i:\scratch\boschloo\3475.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -240.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4742.6 -16.3 t  
 periode: 2 ben(t)= 4741.5 -16.4 t  
 periode: 3 ben(t)= 4724.1 -16.0 t + 42.1 sin(wt - 1.5)  
 periode: 4 ben(t)= 4736.3 -16.2 t + 72.5 sin(wt + 1.4)  
 periode: 5 ben(t)= 4743.1 -16.3 t + 49.0 sin(wt - 0.7)  
 periode: 6 ben(t)= 4622.4 -14.7 t +129.6 sin(wt - 0.0)  
 periode: 7 ben(t)= 4872.7 -18.1 t +114.2 sin(wt + 1.4)  
 periode: 8 ben(t)= 4754.4 -16.4 t + 19.9 sin(wt - 0.1)  
 periode: 9 ben(t)= 4739.8 -16.3 t + 34.5 sin(wt + 0.1)  
 periode: 10 ben(t)= 4730.3 -16.1 t + 28.0 sin(wt - 1.4)  
 periode: 11 ben(t)= 4638.5 -14.9 t + 33.2 sin(wt + 1.1)  
 periode: 12 ben(t)= 4559.8 -13.9 t + 86.7 sin(wt + 0.9)  
 periode: 13 ben(t)= 4545.0 -13.9 t +148.2 sin(wt + 0.6)  
 periode: 14 ben(t)= 4583.3 -14.6 t +195.8 sin(wt - 0.1)  
 periode: 15 ben(t)= 4659.8 -15.8 t +223.4 sin(wt - 1.0)  
 periode: 16 ben(t)= 4763.1 -17.2 t +237.3 sin(wt + 1.0)  
 periode: 17 ben(t)= 4885.1 -18.8 t +244.8 sin(wt - 0.5)  
 periode: 18 ben(t)= 5021.1 -20.5 t +250.7 sin(wt + 1.1)  
 periode: 19 ben(t)= 5168.2 -22.4 t +256.9 sin(wt - 0.6)  
 periode: 20 ben(t)= 5325.1 -24.4 t +264.5 sin(wt + 0.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	263.54	163.56	108.93	63.10	63.85	66.81	69.99	69.68	47.10	46.41	34.89	37.21	38.81	64.90	66.12	64.47	60.70	60.36	58.31	57.38	58.18	57.83
3	377.17	266.44	205.58	145.98	149.21	152.72	165.69	165.21	146.24	143.11	125.02	118.10	116.53	147.34	151.73	149.14	143.45	146.05	144.74	145.45	145.35	143.90
2	487.68	380.81	320.05	262.50	269.55	271.25	283.81	287.23	265.00	235.50	226.24	221.25	229.93	255.73	264.30	273.33	261.02	248.06	245.95	249.77	254.03	254.59
1	726.59	619.62	584.93	516.12	561.17	568.51	560.98	556.88	502.78	490.72	482.53	465.51	487.17	535.95	538.40	521.52	522.92	471.78	521.32	508.33	491.44	525.33
-1	1649.63	1892.22	1763.13	1834.39	1929.64	1834.12	1669.43	1769.70	1743.65	1602.13	1617.10	1857.11	1821.05	1808.84	1715.83	1767.74	1742.64	1878.55	2038.42	1972.40	1860.20	1836.61
-2	676.37	715.95	657.07	742.62	762.33	770.72	718.17	696.30	648.81	633.80	588.76	659.39	676.82	654.77	648.22	767.76	662.19	640.00	645.50	695.05	703.23	683.37
totaal	4180.98	4038.59	3639.70	3564.71	3735.75	3664.13	3468.07	3544.99	3353.59	3151.67	3074.53	3358.57	3370.32	3467.53	3384.59	3543.95	3392.91	3444.79	3654.23	3628.38	3512.43	3501.63

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3500.dat  
 uitvoerfiles:i:\scratch\boschloo\3500.uit,i:\scratch\boschloo\3500.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -275.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 7595.1 -38.4 t  
 periode: 2 ben(t)= 7594.6 -38.5 t  
 periode: 3 ben(t)= 7569.1 -38.0 t + 50.7 sin(wt + 1.2)  
 periode: 4 ben(t)= 7595.6 -38.4 t + 10.0 sin(wt - 0.6)  
 periode: 5 ben(t)= 7627.0 -38.8 t + 80.3 sin(wt + 0.7)  
 periode: 6 ben(t)= 7627.4 -38.9 t + 42.7 sin(wt + 1.2)  
 periode: 7 ben(t)= 7593.7 -38.4 t + 54.0 sin(wt + 0.7)  
 periode: 8 ben(t)= 7640.8 -38.9 t +101.1 sin(wt - 0.2)  
 periode: 9 ben(t)= 7607.7 -38.3 t +135.8 sin(wt + 0.1)  
 periode: 10 ben(t)= 7502.4 -37.0 t +164.8 sin(wt - 1.0)  
 periode: 11 ben(t)= 7413.0 -35.9 t +203.9 sin(wt + 0.1)  
 periode: 12 ben(t)= 7393.2 -36.0 t +245.4 sin(wt + 0.5)  
 periode: 13 ben(t)= 7417.2 -36.6 t +271.3 sin(wt + 0.3)  
 periode: 14 ben(t)= 7462.3 -37.3 t +272.4 sin(wt - 0.3)  
 periode: 15 ben(t)= 7518.7 -38.1 t +257.2 sin(wt - 1.2)  
 periode: 16 ben(t)= 7580.6 -38.9 t +237.8 sin(wt + 0.8)  
 periode: 17 ben(t)= 7644.6 -39.6 t +220.8 sin(wt - 0.6)  
 periode: 18 ben(t)= 7709.4 -40.4 t +207.9 sin(wt + 0.9)  
 periode: 19 ben(t)= 7774.9 -41.1 t +199.0 sin(wt - 0.8)  
 periode: 20 ben(t)= 7841.2 -41.9 t +193.4 sin(wt + 0.4)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	175.88	174.40	185.86	192.62	185.92	193.39	158.48	120.69	100.43	105.35	99.73	73.79	52.82	167.97	200.47	175.24	172.88	158.27	151.43	165.11	153.16	152.61
3	551.05	549.37	548.61	550.27	545.69	545.30	484.44	447.20	447.31	428.90	425.20	377.20	326.42	441.65	470.95	443.73	434.93	407.14	403.27	410.96	385.38	389.67
2	701.60	698.00	699.71	701.45	705.05	706.98	649.83	607.75	606.25	610.40	577.15	526.90	470.26	585.38	623.95	607.54	593.76	556.64	545.85	553.46	522.57	528.35
1	956.54	949.30	948.77	962.29	989.09	954.24	867.77	825.61	826.60	792.43	734.17	686.70	718.20	852.65	895.63	844.36	877.46	715.23	723.23	757.89	717.07	722.30
-1	2130.17	2051.75	2005.82	2109.92	1962.83	1999.13	2033.89	1918.00	1976.44	1832.98	1863.68	1910.35	1964.07	2016.68	1856.90	1982.36	2052.01	1898.95	2099.65	1972.97	1865.69	1927.41
-2	720.67	725.75	682.82	732.00	758.92	789.80	817.66	776.50	761.34	715.03	676.79	689.11	669.77	700.20	660.80	714.97	702.45	676.75	669.75	733.92	675.43	658.59
totaal	5235.90	5148.58	5071.59	5248.55	5147.50	5188.83	5012.08	4695.74	4718.36	4485.10	4376.72	4264.06	4201.53	4764.53	4708.70	4768.21	4833.49	4412.97	4593.17	4594.30	4319.29	4378.92

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3525.dat  
 uitvoerfiles:i:\scratch\boschloo\3525.uit,i:\scratch\boschloo\3525.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -232.00  
 zeegrens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5676.3 -29.2 t  
 periode: 2 ben(t)= 5674.3 -29.5 t  
 periode: 3 ben(t)= 5679.2 -29.3 t + 91.0 sin(wt - 0.4)  
 periode: 4 ben(t)= 5671.8 -29.2 t + 56.4 sin(wt + 1.1)  
 periode: 5 ben(t)= 5651.1 -28.9 t + 64.9 sin(wt + 1.0)  
 periode: 6 ben(t)= 5793.6 -30.9 t +134.0 sin(wt + 1.0)  
 periode: 7 ben(t)= 5454.4 -26.3 t +135.6 sin(wt - 0.4)  
 periode: 8 ben(t)= 5647.8 -28.8 t + 22.5 sin(wt + 0.3)  
 periode: 9 ben(t)= 5658.5 -29.1 t + 94.6 sin(wt - 0.9)  
 periode: 10 ben(t)= 5412.7 -25.7 t +134.5 sin(wt + 0.8)  
 periode: 11 ben(t)= 5225.9 -23.2 t +139.8 sin(wt - 1.5)  
 periode: 12 ben(t)= 5245.6 -23.5 t +129.5 sin(wt - 1.5)  
 periode: 13 ben(t)= 5358.2 -25.1 t +144.7 sin(wt + 1.0)  
 periode: 14 ben(t)= 5481.1 -27.0 t +175.6 sin(wt + 0.1)  
 periode: 15 ben(t)= 5595.5 -28.7 t +198.9 sin(wt - 0.9)  
 periode: 16 ben(t)= 5701.0 -30.1 t +211.8 sin(wt + 1.0)  
 periode: 17 ben(t)= 5799.4 -31.4 t +218.8 sin(wt - 0.5)  
 periode: 18 ben(t)= 5892.6 -32.6 t +223.5 sin(wt + 1.1)  
 periode: 19 ben(t)= 5982.2 -33.7 t +228.0 sin(wt - 0.7)  
 periode: 20 ben(t)= 6069.5 -34.8 t +233.1 sin(wt + 0.5)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	109.39	100.79	137.78	133.70	28.68	27.00	26.02	27.51	52.96	52.02	49.63	47.67	51.46	50.14	68.03	50.20	47.00	71.98	48.95	57.71	111.88	116.77
3	292.09	292.45	301.13	305.78	130.49	120.81	120.63	123.51	150.58	151.21	154.89	151.39	143.77	139.76	164.61	143.44	146.44	166.16	142.57	141.03	221.29	228.89
2	406.59	406.87	415.25	419.46	254.08	249.67	260.26	263.52	293.64	297.42	255.51	251.23	235.79	237.52	271.02	246.26	254.57	281.71	253.08	236.38	312.17	331.38
1	598.67	608.47	613.92	683.43	508.82	483.96	434.85	489.56	465.54	456.03	339.68	392.88	388.16	409.73	398.86	453.75	482.23	444.38	346.91	371.20	424.50	450.13
-1	1935.00	1952.97	1897.92	2004.57	1915.05	1908.13	1798.64	1792.89	1767.17	1733.49	1773.36	1720.78	1937.68	1778.95	1840.91	1867.50	1888.31	1731.97	1745.83	1713.57	1609.43	1824.78
-2	666.75	676.17	634.12	664.77	686.38	714.75	742.62	694.36	673.50	678.05	634.87	610.14	655.46	679.15	635.33	707.00	704.19	631.51	639.33	677.92	668.47	706.31
totaal	4008.49	4037.72	4000.12	4211.70	3523.50	3504.31	3383.03	3391.35	3403.40	3368.21	3207.93	3174.09	3412.32	3295.25	3378.76	3468.15	3522.74	3327.71	3176.68	3197.81	3347.73	3658.25

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3550.dat  
 uitvoerfiles:i:\scratch\boschloo\3550.uit,i:\scratch\boschloo\3550.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -205.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4835.7 -13.4 t  
 periode: 2 ben(t)= 4832.6 -14.0 t  
 periode: 3 ben(t)= 4834.5 -13.4 t + 21.2 sin(wt - 0.5)  
 periode: 4 ben(t)= 4834.0 -13.4 t + 21.1 sin(wt + 1.2)  
 periode: 5 ben(t)= 4829.5 -13.4 t + 53.0 sin(wt - 1.1)  
 periode: 6 ben(t)= 4816.9 -13.2 t + 29.3 sin(wt + 1.4)  
 periode: 7 ben(t)= 4938.6 -14.8 t + 71.6 sin(wt - 1.5)  
 periode: 8 ben(t)= 4922.0 -14.5 t + 84.8 sin(wt + 0.1)  
 periode: 9 ben(t)= 4843.6 -13.4 t + 64.5 sin(wt - 0.1)  
 periode: 10 ben(t)= 4937.7 -14.8 t + 66.8 sin(wt + 1.1)  
 periode: 11 ben(t)= 5117.2 -17.2 t + 95.4 sin(wt - 1.3)  
 periode: 12 ben(t)= 5184.2 -18.2 t +110.2 sin(wt - 1.0)  
 periode: 13 ben(t)= 5131.8 -17.5 t +113.4 sin(wt - 1.1)  
 periode: 14 ben(t)= 5020.4 -16.0 t +113.8 sin(wt + 1.4)  
 periode: 15 ben(t)= 4884.3 -14.2 t +115.0 sin(wt + 0.4)  
 periode: 16 ben(t)= 4736.5 -12.2 t +118.2 sin(wt - 0.8)  
 periode: 17 ben(t)= 4581.3 -10.1 t +123.3 sin(wt + 0.9)  
 periode: 18 ben(t)= 4420.1 - 7.9 t +130.2 sin(wt - 0.7)  
 periode: 19 ben(t)= 4253.0 - 5.6 t +138.8 sin(wt + 0.6)  
 periode: 20 ben(t)= 4079.7 - 3.3 t +148.8 sin(wt - 1.3)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	21.90	29.22	33.20	38.20	40.46	44.24	52.47	63.07	63.30	58.91	61.11	58.16	60.08	61.69	64.94	67.36	66.15	69.57	61.91	60.15	50.76	55.85
3	283.28	282.15	282.78	287.11	284.96	291.91	289.00	291.36	293.05	287.28	260.86	262.48	250.92	248.02	247.79	250.18	244.72	247.33	252.16	242.79	250.88	252.77
2	503.56	499.76	494.61	497.40	499.57	504.61	504.68	508.22	511.46	508.53	467.34	462.95	444.09	446.49	441.55	445.60	445.33	448.66	452.03	433.04	440.77	439.63
1	701.57	676.52	687.48	687.72	715.44	725.01	702.60	710.91	674.78	644.63	575.45	618.95	619.50	616.45	615.47	646.04	609.21	634.64	577.43	596.61	637.71	646.27
-1	1816.65	1802.83	1668.76	1719.47	1775.30	1895.20	1844.01	1766.23	1677.73	1597.83	1714.42	1767.62	1734.58	1637.20	1698.60	1779.31	1690.57	1782.08	1657.51	1761.47	1649.63	1783.51
-2	605.61	653.67	599.69	643.68	669.27	672.33	711.15	719.73	671.71	736.75	647.87	619.83	644.97	662.25	570.80	646.62	590.09	593.08	626.19	682.08	684.13	698.67
totaal	3932.56	3944.15	3766.52	3873.58	3985.00	4133.31	4103.91	4059.52	3892.04	3833.93	3727.05	3790.00	3754.14	3672.10	3639.15	3835.12	3646.07	3775.37	3627.23	3776.13	3713.88	3876.70



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3575.dat  
 uitvoerfiles:i:\scratch\boschloo\3575.uit,i:\scratch\boschloo\3575.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -190.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4082.1 - 4.9 t  
 periode: 2 ben(t)= 4081.7 - 5.0 t  
 periode: 3 ben(t)= 4078.6 - 4.9 t + 22.3 sin(wt - 0.1)  
 periode: 4 ben(t)= 4083.3 - 5.0 t + 26.4 sin(wt - 0.6)  
 periode: 5 ben(t)= 4061.8 - 4.8 t + 93.1 sin(wt - 1.3)  
 periode: 6 ben(t)= 4052.2 - 4.6 t + 61.1 sin(wt - 0.6)  
 periode: 7 ben(t)= 4134.2 - 5.7 t + 85.2 sin(wt + 1.0)  
 periode: 8 ben(t)= 4102.3 - 5.2 t + 21.8 sin(wt + 0.1)  
 periode: 9 ben(t)= 4079.5 - 5.0 t + 47.4 sin(wt + 0.3)  
 periode: 10 ben(t)= 4204.7 - 6.7 t + 86.5 sin(wt - 0.5)  
 periode: 11 ben(t)= 4360.9 - 8.7 t +106.9 sin(wt + 0.8)  
 periode: 12 ben(t)= 4399.8 - 9.1 t +106.3 sin(wt + 1.3)  
 periode: 13 ben(t)= 4340.2 - 8.3 t + 96.0 sin(wt + 1.4)  
 periode: 14 ben(t)= 4237.7 - 7.0 t + 89.4 sin(wt + 1.1)  
 periode: 15 ben(t)= 4121.5 - 5.5 t + 90.3 sin(wt + 0.4)  
 periode: 16 ben(t)= 4002.0 - 4.0 t + 95.3 sin(wt - 0.7)  
 periode: 17 ben(t)= 3881.6 - 2.4 t +101.9 sin(wt + 1.1)  
 periode: 18 ben(t)= 3760.2 - 0.7 t +109.0 sin(wt - 0.4)  
 periode: 19 ben(t)= 3637.0 + 0.9 t +116.8 sin(wt + 1.0)  
 periode: 20 ben(t)= 3511.1 + 2.6 t +125.1 sin(wt - 0.9)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	66.49	65.97	65.43	63.11	66.37	64.17	66.99	63.58	67.06	65.74	66.39
	62.20	57.71	60.24	98.13	67.16	99.79	63.97	65.50	60.57	77.89	74.17
3	267.60	275.05	272.46	275.92	275.76	276.15	278.55	280.99	282.05	285.09	250.55
	248.53	237.22	236.42	267.21	235.75	268.74	232.42	232.32	230.04	244.55	243.69
2	451.70	451.82	441.45	445.50	442.00	428.79	434.12	440.70	428.85	429.98	385.80
	388.86	371.64	374.74	410.15	390.97	409.34	371.60	367.10	366.24	381.18	388.79
1	700.40	660.79	639.65	650.31	618.08	625.73	671.95	659.60	634.09	594.45	586.26
	572.92	581.68	594.53	610.68	582.63	613.78	566.23	540.85	596.75	643.95	625.73
-1	1739.53	1771.31	1722.04	1614.70	1509.47	1692.14	1871.04	1695.51	1617.35	1600.80	1811.97
	1820.49	1626.40	1792.18	1569.44	1575.26	1645.03	1743.31	1707.12	1804.57	1891.92	1822.05
-2	628.93	643.81	645.53	629.08	641.03	628.67	677.44	697.55	667.17	685.20	665.93
	625.10	601.60	664.13	575.12	640.72	626.67	629.54	635.77	672.76	709.68	684.45
totaal	3854.65	3868.75	3786.56	3678.62	3552.71	3715.65	4000.09	3837.92	3696.58	3661.26	3766.90
	3718.10	3476.26	3722.24	3530.74	3492.48	3663.35	3607.07	3548.66	3730.93	3949.17	3838.87

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3600.dat  
 uitvoerfiles:i:\scratch\boschloo\3600.uit,i:\scratch\boschloo\3600.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -175.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4741.3 -13.6 t  
 periode: 2 ben(t)= 4741.6 -13.5 t  
 periode: 3 ben(t)= 4737.1 -13.5 t + 35.6 sin(wt - 0.7)  
 periode: 4 ben(t)= 4739.0 -13.5 t + 26.6 sin(wt + 1.6)  
 periode: 5 ben(t)= 4723.9 -13.3 t + 44.5 sin(wt + 1.0)  
 periode: 6 ben(t)= 4742.0 -13.6 t + 47.0 sin(wt - 1.1)  
 periode: 7 ben(t)= 4779.4 -14.1 t + 40.7 sin(wt + 1.2)  
 periode: 8 ben(t)= 4788.1 -14.2 t + 30.0 sin(wt - 1.4)  
 periode: 9 ben(t)= 4734.4 -13.5 t + 48.5 sin(wt - 0.3)  
 periode: 10 ben(t)= 4804.7 -14.5 t + 58.4 sin(wt - 0.7)  
 periode: 11 ben(t)= 4948.2 -16.3 t + 73.6 sin(wt + 0.9)  
 periode: 12 ben(t)= 5009.3 -17.1 t + 80.3 sin(wt - 1.5)  
 periode: 13 ben(t)= 4972.6 -16.7 t + 84.0 sin(wt - 1.3)  
 periode: 14 ben(t)= 4884.0 -15.6 t + 91.7 sin(wt + 1.5)  
 periode: 15 ben(t)= 4773.6 -14.1 t + 100.8 sin(wt + 0.7)  
 periode: 16 ben(t)= 4653.7 -12.5 t + 109.0 sin(wt - 0.4)  
 periode: 17 ben(t)= 4528.3 -10.9 t + 116.5 sin(wt + 1.3)  
 periode: 18 ben(t)= 4398.4 - 9.1 t + 123.9 sin(wt - 0.3)  
 periode: 19 ben(t)= 4263.8 - 7.3 t + 131.9 sin(wt + 1.1)  
 periode: 20 ben(t)= 4124.4 - 5.4 t + 140.7 sin(wt - 0.9)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	58.55	58.14	58.79	61.51	60.09	67.15	62.58	64.36	61.20	61.04	62.02
	61.73	58.54	56.67	58.70	62.39	60.14	63.64	63.02	48.89	64.96	65.67
3	249.04	250.29	253.50	258.46	255.71	266.81	263.13	268.06	270.84	272.76	259.53
	251.52	212.81	210.40	210.18	216.62	215.81	216.66	215.51	202.24	224.98	228.54
2	468.01	470.26	469.71	477.88	482.58	474.60	479.33	487.81	485.69	485.84	441.30
	430.64	394.75	398.10	406.97	417.89	414.07	408.13	392.43	385.29	398.88	407.33
1	682.99	646.47	683.20	690.68	642.52	624.23	693.41	654.57	644.10	618.41	596.23
	588.42	577.11	617.94	614.55	593.96	606.28	555.34	554.79	578.40	614.47	609.18
-1	1821.17	1807.46	1849.17	1730.23	1679.38	1666.41	1791.43	1707.29	1624.02	1599.84	1648.81
	1670.37	1802.56	1764.43	1553.94	1602.32	1708.28	1649.63	1785.51	1773.26	1840.32	1804.67
-2	629.67	619.43	646.97	672.44	670.70	642.03	638.07	679.65	685.75	714.90	621.94
	649.59	613.47	621.46	559.66	666.90	619.30	644.34	632.67	650.15	698.64	663.57
totaal	3909.43	3852.06	3961.34	3891.20	3790.99	3741.22	3927.95	3861.74	3771.61	3752.80	3629.83
	3652.27	3659.24	3669.00	3404.00	3560.08	3623.88	3537.74	3643.93	3638.23	3842.24	3778.97



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3650.dat  
 uitvoerfiles:i:\scratch\boschloo\3650.uit,i:\scratch\boschloo\3650.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -145.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5054.8 -21.4 t  
 periode: 2 ben(t)= 5055.1 -21.4 t  
 periode: 3 ben(t)= 5052.5 -21.4 t + 17.7 sin(wt - 0.7)  
 periode: 4 ben(t)= 5054.7 -21.4 t + 65.0 sin(wt - 0.1)  
 periode: 5 ben(t)= 5071.2 -21.6 t + 47.2 sin(wt + 1.3)  
 periode: 6 ben(t)= 5145.9 -22.6 t +108.9 sin(wt - 0.2)  
 periode: 7 ben(t)= 4997.6 -20.6 t + 85.1 sin(wt + 1.1)  
 periode: 8 ben(t)= 5050.4 -21.4 t + 11.1 sin(wt - 0.2)  
 periode: 9 ben(t)= 5063.4 -21.5 t + 55.6 sin(wt - 0.4)  
 periode: 10 ben(t)= 5147.6 -22.6 t + 86.8 sin(wt + 1.4)  
 periode: 11 ben(t)= 5273.5 -24.4 t +104.6 sin(wt - 0.8)  
 periode: 12 ben(t)= 5317.1 -25.0 t +105.8 sin(wt - 0.6)  
 periode: 13 ben(t)= 5277.5 -24.5 t + 95.5 sin(wt - 0.9)  
 periode: 14 ben(t)= 5196.8 -23.4 t + 86.9 sin(wt + 1.4)  
 periode: 15 ben(t)= 5096.9 -22.0 t + 86.5 sin(wt + 0.2)  
 periode: 16 ben(t)= 4985.7 -20.5 t + 91.9 sin(wt - 1.2)  
 periode: 17 ben(t)= 4866.3 -18.8 t + 99.5 sin(wt + 0.4)  
 periode: 18 ben(t)= 4740.0 -17.1 t +107.9 sin(wt - 1.2)  
 periode: 19 ben(t)= 4607.3 -15.4 t +117.0 sin(wt + 0.1)  
 periode: 20 ben(t)= 4468.7 -13.5 t +126.7 sin(wt + 1.3)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	24.78	25.51	24.22	29.20	30.14	31.27	31.31	31.96	30.84	33.40	32.18
	36.84	32.74	31.89	30.18	35.57	34.16	43.70	48.38	45.97	53.02	47.58
3	206.53	206.79	203.27	214.71	218.68	220.27	219.78	222.20	231.60	243.65	241.20
	239.85	213.01	210.95	208.95	217.96	217.90	210.96	222.25	209.89	206.39	194.73
2	361.15	368.19	368.34	377.33	390.59	397.76	409.95	416.81	429.16	431.76	423.80
	411.62	351.99	355.34	347.62	352.03	355.58	359.59	357.33	333.58	328.94	326.33
1	532.14	574.55	561.27	597.02	626.69	625.38	569.06	605.78	617.35	573.09	563.60
	519.52	505.48	513.70	510.99	548.20	540.28	547.29	458.82	497.17	499.42	502.39
-1	1643.63	1605.77	1683.54	1976.09	1763.71	1640.47	1782.43	1649.89	1736.72	1627.06	1660.05
	1505.02	1639.00	1548.14	1635.36	1699.00	1668.84	1581.09	1566.50	1573.04	1500.99	1446.42
-2	677.42	628.17	676.89	692.22	690.00	697.88	668.91	612.36	643.10	664.60	709.49
	680.67	619.13	575.27	535.80	613.50	600.94	593.78	594.08	616.46	634.00	611.83
totaal	3445.66	3408.98	3517.54	3886.57	3719.81	3613.03	3681.45	3539.00	3688.77	3573.56	3630.33
	3393.51	3361.35	3235.28	3268.89	3466.25	3417.71	3336.40	3247.36	3276.10	3222.75	3129.28





source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3725.dat  
 uitvoerfiles:i:\scratch\boschloo\3725.uit,i:\scratch\boschloo\3725.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -145.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3581.2 + 9.5 t  
 periode: 2 ben(t)= 3580.5 + 9.4 t  
 periode: 3 ben(t)= 3597.0 + 9.3 t + 31.3 sin(wt + 1.0)  
 periode: 4 ben(t)= 3578.3 + 9.6 t + 37.5 sin(wt - 1.1)  
 periode: 5 ben(t)= 3554.2 + 9.9 t + 84.4 sin(wt + 0.2)  
 periode: 6 ben(t)= 3489.8 +10.7 t +124.4 sin(wt - 0.4)  
 periode: 7 ben(t)= 3697.3 + 8.0 t + 84.0 sin(wt + 1.6)  
 periode: 8 ben(t)= 3614.4 + 9.1 t + 38.8 sin(wt - 0.9)  
 periode: 9 ben(t)= 3569.8 + 9.5 t +102.7 sin(wt - 0.0)  
 periode: 10 ben(t)= 3658.7 + 8.4 t +133.2 sin(wt - 0.9)  
 periode: 11 ben(t)= 3758.5 + 7.2 t +149.9 sin(wt + 0.2)  
 periode: 12 ben(t)= 3777.9 + 7.1 t +152.7 sin(wt + 0.6)  
 periode: 13 ben(t)= 3741.2 + 7.7 t +139.3 sin(wt + 0.5)  
 periode: 14 ben(t)= 3683.1 + 8.5 t +115.4 sin(wt - 0.0)  
 periode: 15 ben(t)= 3619.9 + 9.3 t + 91.1 sin(wt - 0.9)  
 periode: 16 ben(t)= 3558.1 +10.0 t + 72.6 sin(wt + 1.2)  
 periode: 17 ben(t)= 3499.3 +10.8 t + 60.5 sin(wt - 0.0)  
 periode: 18 ben(t)= 3442.9 +11.5 t + 53.7 sin(wt - 1.5)  
 periode: 19 ben(t)= 3388.3 +12.2 t + 50.8 sin(wt + 0.1)  
 periode: 20 ben(t)= 3334.5 +12.9 t + 50.5 sin(wt + 1.5)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	168.04	171.97	180.79	178.77	176.72	179.80	181.70	181.27	184.64	181.66	183.62	199.42	197.00	190.55	190.94	161.07	197.26	201.31	196.41	179.56	219.16	217.99
3	462.64	465.07	468.92	472.13	471.18	465.06	463.42	464.05	459.43	465.02	454.68	465.18	463.96	464.45	466.41	463.41	470.52	466.96	465.69	463.95	470.02	471.59
2	541.48	546.38	546.68	546.28	519.55	504.94	507.66	507.24	506.97	512.05	511.31	515.42	512.40	514.01	521.64	522.68	531.73	515.95	514.29	513.07	521.12	532.95
1	688.32	702.87	704.52	675.10	636.27	643.90	649.90	702.14	700.56	680.12	643.46	705.49	703.71	776.72	721.38	652.40	692.71	626.65	650.16	658.97	704.13	729.32
-1	1841.96	1632.11	1749.88	1626.00	1490.94	1630.38	1628.92	2006.85	1884.24	1765.75	1752.05	1894.11	2002.08	1946.77	1671.17	1692.27	1629.52	1892.73	1969.83	1932.92	1931.25	1843.01
-2	677.54	617.05	657.07	653.87	674.66	707.50	707.58	651.25	662.64	639.00	678.12	703.43	592.50	573.83	567.57	583.88	581.33	559.42	600.56	656.33	690.25	697.97
totaal	4379.98	4135.45	4307.85	4152.15	3969.33	4131.58	4139.18	4512.80	4398.48	4243.60	4223.24	4483.05	4471.65	4466.33	4139.10	4075.71	4103.07	4263.02	4396.94	4404.81	4535.93	4492.83

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3750.dat  
 uitvoerfiles:i:\scratch\boschloo\3750.uit,i:\scratch\boschloo\3750.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -75.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 2026.4 + 6.9 t  
 periode: 2 ben(t)= 2027.5 + 7.1 t  
 periode: 3 ben(t)= 2019.9 + 7.0 t + 17.6 sin(wt + 0.4)  
 periode: 4 ben(t)= 2028.0 + 6.9 t + 30.4 sin(wt + 0.6)  
 periode: 5 ben(t)= 2035.5 + 6.8 t + 36.0 sin(wt - 1.4)  
 periode: 6 ben(t)= 2057.5 + 6.3 t +139.7 sin(wt - 1.3)  
 periode: 7 ben(t)= 1916.0 + 8.3 t + 91.8 sin(wt - 0.0)  
 periode: 8 ben(t)= 1936.5 + 8.1 t + 48.0 sin(wt + 1.0)  
 periode: 9 ben(t)= 2023.4 + 6.8 t + 69.5 sin(wt + 0.4)  
 periode: 10 ben(t)= 2073.1 + 6.2 t + 74.4 sin(wt - 0.9)  
 periode: 11 ben(t)= 2065.5 + 6.3 t + 69.6 sin(wt + 0.0)  
 periode: 12 ben(t)= 2040.3 + 6.7 t + 59.0 sin(wt + 0.3)  
 periode: 13 ben(t)= 2025.2 + 7.0 t + 41.9 sin(wt + 0.1)  
 periode: 14 ben(t)= 2020.7 + 7.0 t + 23.1 sin(wt - 0.7)  
 periode: 15 ben(t)= 2023.9 + 6.9 t + 9.9 sin(wt + 0.9)  
 periode: 16 ben(t)= 2032.8 + 6.8 t + 11.1 sin(wt - 1.5)  
 periode: 17 ben(t)= 2046.0 + 6.6 t + 17.6 sin(wt - 0.2)  
 periode: 18 ben(t)= 2062.3 + 6.3 t + 23.1 sin(wt + 1.3)  
 periode: 19 ben(t)= 2080.9 + 6.1 t + 27.5 sin(wt - 0.6)  
 periode: 20 ben(t)= 2101.4 + 5.8 t + 31.3 sin(wt + 0.7)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
3	79.69	82.27	84.43	83.11	79.08	73.07	70.25	71.15	71.07	70.55	70.55
	79.63	62.81	71.08	75.82	72.74	71.88	79.29	82.38	69.40	75.38	74.77
2	182.74	187.54	188.10	197.62	168.24	152.08	148.06	150.15	149.25	156.31	156.31
	160.26	144.20	145.34	151.96	160.99	167.93	155.31	146.34	134.11	137.01	138.11
1	345.03	372.94	350.36	345.68	302.81	265.38	267.35	285.57	319.62	324.67	324.67
	284.42	291.19	368.28	352.12	367.29	359.77	241.68	288.48	251.19	260.98	306.37
-1	1341.67	1399.32	1470.09	1298.47	1146.98	1250.63	1187.13	1522.97	1525.75	1372.55	1413.09
	1318.93	1459.16	1506.70	1520.79	1513.95	1391.89	1307.90	1655.27	1613.78	1651.70	1499.65
-2	549.58	563.68	574.07	533.22	611.35	609.38	634.71	590.53	616.02	607.24	616.70
	557.83	506.15	506.50	489.99	517.80	513.86	536.64	531.17	577.27	611.45	602.15
totaal	2498.71	2605.75	2667.05	2458.10	2308.46	2350.53	2307.50	2620.38	2681.71	2531.32	2581.33
	2401.08	2463.53	2597.90	2590.68	2632.78	2505.32	2320.82	2703.63	2645.75	2736.53	2621.05



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3775.dat  
 uitvoerfiles:i:\scratch\boschloo\3775.uit,i:\scratch\boschloo\3775.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -85.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3197.6 - 6.0 t  
 periode: 2 ben(t)= 3199.9 - 5.7 t  
 periode: 3 ben(t)= 3175.2 - 5.7 t + 45.6 sin(wt + 1.4)  
 periode: 4 ben(t)= 3197.3 - 6.0 t + 12.1 sin(wt - 0.3)  
 periode: 5 ben(t)= 3207.5 - 6.2 t + 55.3 sin(wt - 0.3)  
 periode: 6 ben(t)= 3242.3 - 6.7 t + 45.4 sin(wt + 0.8)  
 periode: 7 ben(t)= 3003.9 - 3.5 t +116.9 sin(wt - 0.4)  
 periode: 8 ben(t)= 3006.1 - 3.4 t +108.6 sin(wt + 1.5)  
 periode: 9 ben(t)= 3206.9 - 6.2 t + 76.9 sin(wt + 1.3)  
 periode: 10 ben(t)= 3278.3 - 7.2 t + 56.7 sin(wt - 0.5)  
 periode: 11 ben(t)= 3182.7 - 5.8 t + 64.9 sin(wt - 0.2)  
 periode: 12 ben(t)= 3088.1 - 4.5 t + 88.8 sin(wt - 0.1)  
 periode: 13 ben(t)= 3071.5 - 4.2 t +101.8 sin(wt - 0.4)  
 periode: 14 ben(t)= 3111.3 - 4.7 t +103.1 sin(wt - 1.1)  
 periode: 15 ben(t)= 3181.8 - 5.6 t + 99.5 sin(wt + 1.1)  
 periode: 16 ben(t)= 3270.5 - 6.8 t + 96.7 sin(wt - 0.3)  
 periode: 17 ben(t)= 3371.3 - 8.2 t + 96.4 sin(wt + 1.3)  
 periode: 18 ben(t)= 3481.7 - 9.7 t + 98.9 sin(wt - 0.4)  
 periode: 19 ben(t)= 3600.2 -11.4 t +103.6 sin(wt + 0.9)  
 periode: 20 ben(t)= 3725.8 -13.1 t +110.1 sin(wt - 1.0)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	0.14	0.19	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	157.33	160.64	163.36	156.05	158.45	152.69	154.70	148.98	145.92	148.66	143.67
	147.31	129.88	127.43	124.76	130.20	124.93	127.48	124.98	125.67	121.38	129.93
2	224.31	229.12	229.29	229.76	230.31	219.52	220.97	208.10	203.84	205.65	203.12
	206.92	192.15	193.21	191.29	195.86	194.15	199.88	203.94	197.94	183.71	185.69
1	422.92	399.13	371.32	374.36	348.11	342.95	362.85	297.59	339.43	362.94	357.36
	375.24	333.67	323.81	359.42	413.22	428.86	328.06	320.71	335.34	305.56	346.56
-1	1589.47	1498.33	1352.53	1380.94	1300.28	1249.42	1349.07	1356.76	1556.14	1472.13	1640.50
	1407.46	1467.52	1534.90	1653.07	1567.25	1616.13	1392.46	1401.90	1457.79	1349.62	1457.38
-2	622.13	607.92	600.10	553.61	610.47	536.92	682.33	623.27	685.80	644.37	615.00
	612.11	528.06	526.23	521.33	525.17	530.73	545.02	547.75	595.11	590.66	592.37
totaal	3016.30	2895.33	2718.68	2694.72	2647.63	2501.50	2769.93	2634.71	2931.13	2833.75	2959.65
	2749.04	2651.28	2705.57	2849.88	2831.70	2894.80	2592.89	2599.27	2711.84	2550.93	2711.92



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3825.dat  
 uitvoerfiles:i:\scratch\boschloo\3825.uit,i:\scratch\boschloo\3825.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -110.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4004.2 - 9.8 t  
 periode: 2 ben(t)= 4002.8 -10.0 t  
 periode: 3 ben(t)= 4002.7 - 9.8 t + 22.1 sin(wt - 0.3)  
 periode: 4 ben(t)= 4004.5 - 9.8 t + 13.3 sin(wt + 0.3)  
 periode: 5 ben(t)= 3994.0 - 9.8 t +100.5 sin(wt - 1.0)  
 periode: 6 ben(t)= 4027.4 -10.0 t + 97.2 sin(wt - 0.9)  
 periode: 7 ben(t)= 3948.9 - 9.0 t + 81.6 sin(wt + 1.1)  
 periode: 8 ben(t)= 3954.8 - 9.2 t + 91.8 sin(wt - 0.1)  
 periode: 9 ben(t)= 3995.2 - 9.8 t + 76.8 sin(wt - 0.1)  
 periode: 10 ben(t)= 3979.9 - 9.5 t + 52.8 sin(wt - 1.4)  
 periode: 11 ben(t)= 3931.6 - 8.8 t + 35.1 sin(wt - 0.8)  
 periode: 12 ben(t)= 3909.7 - 8.5 t + 27.8 sin(wt - 1.3)  
 periode: 13 ben(t)= 3917.9 - 8.7 t + 41.8 sin(wt + 0.9)  
 periode: 14 ben(t)= 3942.2 - 9.1 t + 60.0 sin(wt + 0.1)  
 periode: 15 ben(t)= 3975.3 - 9.6 t + 72.1 sin(wt - 0.9)  
 periode: 16 ben(t)= 4014.1 -10.1 t + 78.8 sin(wt + 1.0)  
 periode: 17 ben(t)= 4056.5 -10.7 t + 82.5 sin(wt - 0.4)  
 periode: 18 ben(t)= 4101.4 -11.3 t + 85.1 sin(wt + 1.1)  
 periode: 19 ben(t)= 4148.5 -11.9 t + 87.5 sin(wt - 0.6)  
 periode: 20 ben(t)= 4197.6 -12.5 t + 90.1 sin(wt + 0.6)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	64.12	66.50	54.61	73.95	77.74	79.08	54.69	55.31	57.87	53.83	49.93
	62.37	56.53	56.28	53.76	61.51	56.53	60.85	60.71	58.88	58.38	71.34
3	231.13	234.22	225.13	237.87	240.07	245.46	253.12	255.77	257.16	258.31	254.46
	262.92	248.17	244.62	241.76	242.75	241.72	237.17	240.53	235.10	237.35	239.00
2	300.82	308.91	309.02	314.08	318.16	326.65	326.72	328.50	327.06	328.57	308.01
	320.01	282.65	280.68	282.70	285.16	286.62	290.74	296.66	295.50	300.75	304.41
1	531.39	532.18	532.88	538.50	518.93	497.68	463.79	496.55	431.24	415.19	438.19
	508.60	420.67	435.60	435.46	432.17	471.99	485.93	460.57	466.51	466.01	497.92
-1	1760.42	1721.65	1720.49	1598.54	1566.92	1551.10	1474.08	1353.75	1401.40	1363.50	1729.67
	1648.30	1501.94	1535.83	1401.46	1686.91	1659.96	1645.00	1541.15	1559.30	1562.73	1563.08
-2	599.25	597.52	614.97	630.21	631.58	701.80	616.17	628.63	637.10	686.83	696.17
	648.30	563.45	557.27	578.90	612.03	598.87	588.83	605.75	618.87	594.01	583.17
totaal	3487.13	3460.98	3457.10	3393.15	3353.40	3401.78	3188.58	3118.50	3111.83	3106.23	3476.43
	3450.50	3073.40	3110.27	2994.03	3320.52	3315.68	3308.53	3205.38	3234.15	3219.23	3258.93

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3850.dat  
 uitvoerfiles:i:\scratch\boschloo\3850.uit,i:\scratch\boschloo\3850.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -105.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4285.1 -15.2 t  
 periode: 2 ben(t)= 4284.1 -15.4 t  
 periode: 3 ben(t)= 4297.1 -15.4 t + 34.4 sin(wt + 0.3)  
 periode: 4 ben(t)= 4282.6 -15.2 t + 29.5 sin(wt + 1.4)  
 periode: 5 ben(t)= 4269.5 -15.0 t + 44.5 sin(wt + 0.3)  
 periode: 6 ben(t)= 4277.8 -15.1 t + 36.7 sin(wt - 1.3)  
 periode: 7 ben(t)= 4344.9 -16.0 t + 76.3 sin(wt + 0.3)  
 periode: 8 ben(t)= 4315.7 -15.8 t +128.5 sin(wt - 0.6)  
 periode: 9 ben(t)= 4269.3 -15.2 t +129.6 sin(wt - 0.1)  
 periode: 10 ben(t)= 4380.9 -16.6 t +110.1 sin(wt - 0.8)  
 periode: 11 ben(t)= 4547.9 -18.7 t +101.9 sin(wt + 0.8)  
 periode: 12 ben(t)= 4601.4 -19.4 t + 94.4 sin(wt - 1.5)  
 periode: 13 ben(t)= 4544.4 -18.7 t + 99.5 sin(wt - 1.1)  
 periode: 14 ben(t)= 4436.0 -17.4 t +118.4 sin(wt - 1.4)  
 periode: 15 ben(t)= 4310.6 -15.8 t +136.2 sin(wt + 1.0)  
 periode: 16 ben(t)= 4180.6 -14.1 t +148.7 sin(wt - 0.1)  
 periode: 17 ben(t)= 4048.6 -12.3 t +157.7 sin(wt - 1.5)  
 periode: 18 ben(t)= 3914.5 -10.5 t +165.5 sin(wt - 0.0)  
 periode: 19 ben(t)= 3777.4 - 8.6 t +173.4 sin(wt + 1.3)  
 periode: 20 ben(t)= 3636.6 - 6.7 t +181.9 sin(wt - 0.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	42.49	32.43	28.19	33.32	37.05	39.15	36.82	36.30	38.01	32.64	37.75	38.36	33.31	34.32	28.23	32.49	33.58	31.46	25.70	29.23	29.78	33.87
3	206.31	208.10	209.16	209.70	213.11	216.48	225.62	225.70	226.64	229.38	230.20	233.36	206.93	201.25	197.03	195.62	195.71	192.22	190.37	188.31	188.00	190.85
2	264.39	269.93	271.73	274.13	279.44	288.02	289.85	291.03	291.77	296.92	270.45	274.28	235.62	237.29	229.42	231.13	229.46	227.53	225.11	227.27	236.64	243.41
1	510.99	492.63	480.66	525.58	515.98	484.89	419.49	478.73	459.53	428.36	399.98	426.96	376.28	383.71	379.01	346.46	345.51	392.00	411.99	447.88	452.29	475.90
-1	1835.84	1597.10	1785.26	1816.50	1599.17	1502.42	1448.87	1553.00	1513.67	1459.20	1619.64	1526.63	1602.42	1531.93	1362.73	1385.37	1463.70	1780.75	1682.94	1565.78	1640.24	1696.83
-2	628.91	593.75	611.59	660.85	655.83	713.17	671.55	651.00	616.33	600.20	653.31	643.98	571.58	582.62	512.81	596.75	618.39	631.00	634.45	624.13	651.38	627.67
totaal	3488.93	3193.95	3386.59	3520.08	3300.58	3244.13	3092.19	3235.78	3145.95	3046.70	3211.33	3143.57	3026.15	2971.11	2709.23	2787.83	2886.34	3254.95	3170.56	3082.60	3198.33	3268.53

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3875.dat  
 uitvoerfiles:i:\scratch\boschloo\3875.uit,i:\scratch\boschloo\3875.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -155.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3935.3 - 0.7 t  
 periode: 2 ben(t)= 3936.3 - 0.5 t  
 periode: 3 ben(t)= 3953.1 - 0.9 t + 37.4 sin(wt + 1.5)  
 periode: 4 ben(t)= 3935.3 - 0.6 t + 47.9 sin(wt - 0.0)  
 periode: 5 ben(t)= 3964.1 - 1.0 t + 78.1 sin(wt + 1.2)  
 periode: 6 ben(t)= 3940.5 - 0.8 t + 27.1 sin(wt - 1.3)  
 periode: 7 ben(t)= 4105.3 - 2.9 t + 97.7 sin(wt - 0.5)  
 periode: 8 ben(t)= 4075.9 - 2.7 t +117.9 sin(wt - 1.1)  
 periode: 9 ben(t)= 3921.2 - 0.6 t + 88.5 sin(wt - 0.4)  
 periode: 10 ben(t)= 4043.6 - 2.2 t + 73.8 sin(wt - 0.5)  
 periode: 11 ben(t)= 4303.3 - 5.6 t +112.6 sin(wt + 1.3)  
 periode: 12 ben(t)= 4403.2 - 7.0 t +143.3 sin(wt - 1.0)  
 periode: 13 ben(t)= 4328.1 - 6.1 t +168.4 sin(wt - 0.9)  
 periode: 14 ben(t)= 4168.6 - 4.1 t +189.4 sin(wt - 1.3)  
 periode: 15 ben(t)= 3978.5 - 1.6 t +203.1 sin(wt + 0.9)  
 periode: 16 ben(t)= 3777.6 + 1.0 t +211.7 sin(wt - 0.2)  
 periode: 17 ben(t)= 3571.0 + 3.8 t +218.7 sin(wt + 1.5)  
 periode: 18 ben(t)= 3359.2 + 6.7 t +226.4 sin(wt - 0.2)  
 periode: 19 ben(t)= 3141.7 + 9.7 t +235.7 sin(wt + 1.2)  
 periode: 20 ben(t)= 2917.5 +12.8 t +247.1 sin(wt - 0.8)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	116.98	118.16	116.16	118.78	120.46	120.04	119.65	117.76	96.33	99.75	111.73	115.22	111.28	96.80	127.48	97.67	108.28	111.63	122.85	131.97	117.70	121.24
3	259.45	261.73	258.90	259.70	264.08	262.30	261.64	262.56	238.54	239.06	268.80	264.94	256.57	231.65	269.20	220.64	246.04	251.94	254.44	272.03	254.23	255.81
2	397.80	402.50	402.24	405.92	413.50	417.87	414.29	415.46	380.02	377.99	398.52	393.63	367.04	351.70	396.31	352.02	375.60	371.82	370.57	390.35	380.18	378.12
1	663.94	621.92	613.60	666.40	682.41	653.03	606.33	665.36	622.17	571.98	554.73	583.53	541.04	567.31	576.39	551.48	546.38	533.20	536.46	615.00	566.67	578.71
-1	1894.29	1668.84	1949.04	1919.88	1893.75	1739.64	1660.24	1854.56	1851.38	1759.50	1911.77	1758.67	1712.71	1763.88	1757.85	1724.89	1604.68	1895.14	2061.15	2018.92	2045.83	2014.88
-2	684.21	608.49	660.75	697.01	779.08	802.19	747.02	674.88	736.87	645.50	623.85	668.00	635.02	646.83	631.25	664.61	669.92	707.29	709.25	735.56	765.83	730.27
totaal	4016.67	3681.63	4000.70	4067.69	4153.28	3995.07	3809.17	3990.58	3925.32	3693.79	3869.40	3783.99	3623.67	3658.17	3758.49	3611.31	3550.90	3871.03	4054.72	4163.84	4130.45	4079.03

source program:SIRENE  
 stuurprogramma:a:\stuur\stural.stu  
 sourcefile:b:\invoer\r3900.dat  
 uitvoerfiles:i:\scratch\boschloo\3900.uit,i:\scratch\boschloo\3900.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -130.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3541.5 - 1.5 t  
 periode: 2 ben(t)= 3540.8 - 1.7 t  
 periode: 3 ben(t)= 3529.3 - 1.4 t + 27.3 sin(wt - 1.5)  
 periode: 4 ben(t)= 3539.2 - 1.5 t + 90.5 sin(wt - 0.3)  
 periode: 5 ben(t)= 3542.5 - 1.6 t + 19.4 sin(wt - 0.6)  
 periode: 6 ben(t)= 3504.3 - 1.1 t + 73.3 sin(wt - 0.6)  
 periode: 7 ben(t)= 3669.0 - 3.3 t +115.1 sin(wt + 1.3)  
 periode: 8 ben(t)= 3629.3 - 2.6 t + 83.0 sin(wt + 0.2)  
 periode: 9 ben(t)= 3544.9 - 1.5 t + 27.1 sin(wt - 0.1)  
 periode: 10 ben(t)= 3634.1 - 2.8 t + 42.5 sin(wt + 0.3)  
 periode: 11 ben(t)= 3785.2 - 4.8 t + 75.2 sin(wt + 1.3)  
 periode: 12 ben(t)= 3831.8 - 5.4 t + 86.6 sin(wt - 1.5)  
 periode: 13 ben(t)= 3782.2 - 4.7 t + 86.9 sin(wt + 1.5)  
 periode: 14 ben(t)= 3689.9 - 3.5 t + 85.1 sin(wt + 1.0)  
 periode: 15 ben(t)= 3582.9 - 2.1 t + 84.5 sin(wt + 0.2)  
 periode: 16 ben(t)= 3471.3 - 0.6 t + 85.8 sin(wt - 1.0)  
 periode: 17 ben(t)= 3357.9 + 0.9 t + 88.8 sin(wt + 0.8)  
 periode: 18 ben(t)= 3243.1 + 2.4 t + 93.2 sin(wt - 0.8)  
 periode: 19 ben(t)= 3126.4 + 4.0 t + 98.8 sin(wt + 0.6)  
 periode: 20 ben(t)= 3007.3 + 5.6 t +105.3 sin(wt - 1.3)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	71.33	73.46	75.83	73.92	52.17	53.56	52.41	55.83	52.75	58.17	55.46	57.42	57.65	57.05	56.69	54.59	63.02	65.26	59.67	66.50	66.06	66.27
3	198.53	204.86	211.25	204.80	187.35	190.28	196.13	204.55	204.54	219.69	220.97	218.01	219.85	216.26	212.01	213.15	221.48	221.67	216.75	218.84	214.37	215.00
2	350.26	353.88	354.32	349.92	324.39	325.79	327.08	331.58	332.56	341.46	327.20	331.47	319.48	319.54	329.73	321.95	332.34	333.06	316.89	322.20	315.48	315.29
1	527.36	539.07	484.27	530.05	485.58	532.23	550.77	553.52	533.66	478.83	441.27	493.34	512.25	515.80	545.54	503.84	531.70	426.26	432.60	451.14	448.15	475.57
-1	1711.57	1535.32	1520.11	1636.51	1581.31	1622.60	1704.18	1783.19	1695.35	1598.99	1621.61	1779.15	1616.45	1657.25	1679.44	1639.95	1620.19	1464.12	1649.28	1813.94	1668.05	1717.06
-2	701.43	642.52	648.38	678.83	731.78	710.23	777.53	751.81	736.30	604.37	598.74	627.46	603.33	626.97	569.89	637.30	631.14	619.94	680.71	743.15	756.46	739.39
totaal	3560.48	3349.11	3294.18	3474.03	3362.57	3434.69	3608.10	3680.47	3555.17	3301.52	3265.24	3506.85	3329.00	3392.87	3393.30	3370.78	3399.87	3130.29	3355.92	3615.78	3468.58	3528.57

source program: SIRENE  
 stuurprogramma: a:\stuur\stuural.stu  
 sourcefile: b:\invoer\r3925.dat  
 uitvoerfiles: i:\scratch\boschloo\3925.uit, i:\scratch\boschloo\3925.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -168.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend: vrij  
 amplitude: vrij  
 fase/jr opgang: vrij

periode: 1 ben(t)= 3468.5 + 9.5 t  
 periode: 2 ben(t)= 3471.7 +10.0 t  
 periode: 3 ben(t)= 3469.6 + 9.5 t + 28.8 sin(wt - 0.5)  
 periode: 4 ben(t)= 3460.5 + 9.6 t +131.3 sin(wt - 0.8)  
 periode: 5 ben(t)= 3455.9 + 9.7 t + 31.6 sin(wt + 0.8)  
 periode: 6 ben(t)= 3418.7 +10.2 t + 67.6 sin(wt + 1.2)  
 periode: 7 ben(t)= 3700.5 + 6.4 t +126.6 sin(wt - 0.8)  
 periode: 8 ben(t)= 3671.8 + 6.8 t +112.8 sin(wt + 0.8)  
 periode: 9 ben(t)= 3467.8 + 9.6 t + 85.9 sin(wt + 0.6)  
 periode: 10 ben(t)= 3444.4 + 9.9 t + 52.3 sin(wt - 1.0)  
 periode: 11 ben(t)= 3573.8 + 8.1 t + 46.6 sin(wt - 0.9)  
 periode: 12 ben(t)= 3662.6 + 6.9 t + 58.3 sin(wt - 1.1)  
 periode: 13 ben(t)= 3660.6 + 7.0 t + 69.9 sin(wt + 1.5)  
 periode: 14 ben(t)= 3603.1 + 7.8 t + 82.4 sin(wt + 0.7)  
 periode: 15 ben(t)= 3516.9 + 9.0 t + 92.9 sin(wt - 0.4)  
 periode: 16 ben(t)= 3415.0 +10.4 t +100.9 sin(wt + 1.5)  
 periode: 17 ben(t)= 3303.4 +11.9 t +107.5 sin(wt + 0.1)  
 periode: 18 ben(t)= 3184.8 +13.5 t +113.9 sin(wt - 1.5)  
 periode: 19 ben(t)= 3060.5 +15.1 t +120.7 sin(wt - 0.1)  
 periode: 20 ben(t)= 2930.8 +16.8 t +128.2 sin(wt + 1.1)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	85.16	87.36	92.56	87.87	97.31	99.70	103.56	103.34	106.11	108.33	114.22	113.03	115.10	119.29	115.37	127.54	123.30	119.27	120.86	122.69	122.69	126.32
3	338.48	339.03	345.00	347.79	343.74	353.66	359.22	355.27	360.43	363.28	362.43	364.93	372.97	379.05	367.79	378.34	379.66	381.17	381.49	382.38	382.38	382.64
2	488.24	489.38	488.53	487.71	486.49	488.53	493.37	492.04	494.59	496.75	487.50	491.26	496.83	501.09	503.00	512.95	507.29	503.73	498.70	493.54	493.54	494.25
1	706.95	675.22	689.46	668.77	717.81	722.59	770.62	740.08	715.87	672.05	676.68	685.65	737.82	766.49	687.54	709.96	722.28	670.16	691.32	703.39	719.00	724.19
-1	1772.77	1510.40	1823.21	1709.72	1968.88	1736.41	1873.75	1777.67	1866.14	1698.20	1754.14	2140.29	1978.42	1861.68	1715.66	1757.57	1931.93	1713.37	1618.00	1934.78	1873.93	1750.33
-2	663.63	578.14	634.76	671.47	777.83	722.97	827.25	750.50	792.12	633.77	633.40	671.78	661.06	663.67	610.84	667.00	682.73	695.48	733.50	726.83	707.67	732.67
totaal	4055.22	3679.53	4073.52	3973.34	4392.05	4123.87	4427.77	4218.90	4335.27	3972.38	4028.38	4466.94	4362.20	4291.27	4000.20	4153.37	4347.18	4083.18	4043.87	4363.61	4299.21	4210.39





source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3975.dat  
 uitvoerfiles:i:\scratch\boschloo\3975.uit,i:\scratch\boschloo\3975.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -173.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4618.7 - 4.4 t  
 periode: 2 ben(t)= 4615.4 - 4.9 t  
 periode: 3 ben(t)= 4573.4 - 3.8 t + 91.1 sin(wt + 1.4)  
 periode: 4 ben(t)= 4614.1 - 4.3 t + 64.5 sin(wt - 1.0)  
 periode: 5 ben(t)= 4615.9 - 4.3 t + 52.8 sin(wt - 0.6)  
 periode: 6 ben(t)= 4608.1 - 4.2 t + 43.0 sin(wt - 1.4)  
 periode: 7 ben(t)= 4449.0 - 2.1 t + 95.9 sin(wt - 0.6)  
 periode: 8 ben(t)= 4418.3 - 1.6 t +159.1 sin(wt - 1.2)  
 periode: 9 ben(t)= 4643.5 - 4.5 t +134.9 sin(wt - 0.7)  
 periode: 10 ben(t)= 4638.8 - 4.6 t + 63.4 sin(wt - 1.4)  
 periode: 11 ben(t)= 4413.2 - 1.6 t + 62.6 sin(wt + 1.4)  
 periode: 12 ben(t)= 4269.7 + 0.4 t +129.0 sin(wt - 0.7)  
 periode: 13 ben(t)= 4295.1 + 0.3 t +192.2 sin(wt - 0.6)  
 periode: 14 ben(t)= 4422.7 - 1.2 t +237.1 sin(wt - 1.1)  
 periode: 15 ben(t)= 4596.6 - 3.4 t +261.4 sin(wt + 1.2)  
 periode: 16 ben(t)= 4792.5 - 6.0 t +273.2 sin(wt - 0.0)  
 periode: 17 ben(t)= 5002.2 - 8.9 t +280.5 sin(wt - 1.5)  
 periode: 18 ben(t)= 5223.5 -12.0 t +287.6 sin(wt + 0.0)  
 periode: 19 ben(t)= 5455.6 -15.2 t +296.5 sin(wt + 1.4)  
 periode: 20 ben(t)= 5698.3 -18.6 t +307.9 sin(wt - 0.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	161.67	164.81	168.66	176.37	191.45	198.10	201.39	197.66	194.13	195.18	207.47	217.40	224.53	219.12	202.49	210.88	228.34	230.71	123.47	197.35	148.17	160.79
3	423.00	418.46	409.76	405.70	407.39	390.94	389.72	388.49	383.25	386.83	389.97	390.19	393.69	397.46	391.18	395.52	401.57	403.77	290.87	365.35	308.82	326.40
2	580.83	574.26	560.17	559.36	559.50	532.29	532.87	539.76	553.83	556.84	561.06	564.62	544.66	545.84	555.04	564.37	570.81	569.21	450.28	526.20	453.59	471.05
1	727.77	710.30	679.82	695.07	669.93	647.93	697.45	755.85	767.21	753.91	745.00	713.95	713.66	778.18	740.45	742.95	790.80	732.30	608.48	703.00	577.89	632.74
-1	1819.03	1726.80	1496.26	1673.35	1627.58	1573.50	1740.70	1810.78	1909.51	1932.55	1868.37	1886.44	2096.05	1971.12	1812.76	1997.98	1775.82	1811.93	1765.20	1796.11	1540.04	1788.18
-2	715.97	662.70	642.17	686.34	760.25	655.00	683.67	690.22	749.85	664.75	630.43	655.78	634.87	635.38	715.28	716.77	639.12	692.16	678.94	674.53	576.78	678.63
totaal	4428.28	4257.33	3956.84	4196.18	4216.10	3997.75	4245.79	4382.75	4557.77	4490.06	4402.30	4428.38	4607.45	4547.10	4417.19	4628.48	4406.45	4440.07	3917.25	4262.53	3605.28	4057.79

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4000.dat  
 uitvoerfiles:i:\scratch\boschloo\4000.uit,i:\scratch\boschloo\4000.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -135.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3748.7 - 0.3 t  
 periode: 2 ben(t)= 3747.5 - 0.5 t  
 periode: 3 ben(t)= 3733.1 - 0.1 t + 47.2 sin(wt - 1.1)  
 periode: 4 ben(t)= 3749.0 - 0.3 t + 8.4 sin(wt + 0.5)  
 periode: 5 ben(t)= 3763.9 - 0.5 t + 49.7 sin(wt + 1.5)  
 periode: 6 ben(t)= 3838.7 - 1.5 t + 86.8 sin(wt + 0.3)  
 periode: 7 ben(t)= 3510.2 + 2.9 t +136.1 sin(wt - 1.2)  
 periode: 8 ben(t)= 3570.4 + 2.1 t + 94.6 sin(wt + 1.0)  
 periode: 9 ben(t)= 3756.1 - 0.4 t + 46.8 sin(wt - 1.6)  
 periode: 10 ben(t)= 3743.4 - 0.2 t + 16.3 sin(wt - 1.1)  
 periode: 11 ben(t)= 3600.0 + 1.7 t + 47.4 sin(wt + 1.1)  
 periode: 12 ben(t)= 3520.6 + 2.8 t + 67.2 sin(wt - 1.4)  
 periode: 13 ben(t)= 3540.5 + 2.5 t + 75.4 sin(wt - 1.4)  
 periode: 14 ben(t)= 3615.5 + 1.5 t + 80.6 sin(wt + 1.3)  
 periode: 15 ben(t)= 3714.7 + 0.2 t + 85.6 sin(wt + 0.5)  
 periode: 16 ben(t)= 3824.8 - 1.2 t + 90.7 sin(wt - 0.6)  
 periode: 17 ben(t)= 3940.7 - 2.8 t + 96.1 sin(wt + 1.1)  
 periode: 18 ben(t)= 4061.2 - 4.4 t +102.2 sin(wt - 0.5)  
 periode: 19 ben(t)= 4185.8 - 6.1 t +109.2 sin(wt + 0.8)  
 periode: 20 ben(t)= 4314.8 - 7.8 t +117.0 sin(wt - 1.1)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	20.49	22.51	34.14	39.23	44.96	46.99	44.97	46.20	44.36	46.12	51.15	67.30	48.73	46.45	50.58	66.08	57.07	70.47	81.61	74.03	99.68	104.01
3	351.06	358.17	365.53	364.87	367.41	370.01	371.08	370.14	370.53	376.17	376.34	380.76	368.30	365.11	362.52	367.32	369.64	374.46	380.54	370.37	372.70	374.60
2	423.14	421.35	429.35	429.06	430.27	428.05	428.82	429.99	434.08	440.11	438.87	442.68	403.60	406.42	413.01	421.35	422.49	423.44	421.38	409.09	410.25	413.47
1	565.01	570.17	579.69	640.55	556.70	545.38	550.77	578.03	584.66	629.80	614.45	571.54	514.94	571.52	594.37	567.89	586.50	550.75	542.65	538.79	509.60	542.63
-1	1655.00	1728.93	1576.80	1771.72	1649.96	1454.87	1611.75	1518.40	1714.13	1843.04	1723.66	1655.93	1728.62	1752.74	1725.35	1825.85	1789.94	1692.57	1615.83	1624.10	1541.80	1537.47
-2	661.50	721.32	637.71	683.20	665.38	619.61	636.50	594.46	653.55	623.21	570.82	596.28	586.71	590.83	670.53	674.80	639.01	697.77	667.92	638.65	609.70	643.82
totaal	3676.20	3822.45	3623.23	3928.63	3714.69	3464.90	3643.90	3537.23	3801.31	3958.45	3775.27	3714.49	3650.90	3733.07	3816.35	3923.30	3864.65	3809.45	3709.93	3655.03	3543.73	3616.00

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4025.dat  
 uitvoerfiles:i:\scratch\boschloo\4025.uit,i:\scratch\boschloo\4025.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -171.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5658.0 -16.2 t  
 periode: 2 ben(t)= 5659.2 -16.1 t  
 periode: 3 ben(t)= 5667.9 -16.4 t + 20.6 sin(wt + 0.8)  
 periode: 4 ben(t)= 5655.5 -16.2 t + 30.9 sin(wt + 1.2)  
 periode: 5 ben(t)= 5682.3 -16.6 t + 74.6 sin(wt + 0.2)  
 periode: 6 ben(t)= 5644.2 -16.0 t + 50.7 sin(wt - 1.4)  
 periode: 7 ben(t)= 5650.2 -16.1 t + 23.7 sin(wt + 0.9)  
 periode: 8 ben(t)= 5575.6 -15.2 t + 47.0 sin(wt + 0.7)  
 periode: 9 ben(t)= 5662.1 -16.3 t + 61.0 sin(wt + 0.9)  
 periode: 10 ben(t)= 5763.8 -17.7 t + 62.1 sin(wt - 0.3)  
 periode: 11 ben(t)= 5755.5 -17.5 t + 58.4 sin(wt + 0.4)  
 periode: 12 ben(t)= 5692.4 -16.6 t + 65.2 sin(wt + 0.4)  
 periode: 13 ben(t)= 5652.3 -16.0 t + 74.4 sin(wt + 0.0)  
 periode: 14 ben(t)= 5645.6 -15.9 t + 77.4 sin(wt - 0.7)  
 periode: 15 ben(t)= 5662.7 -16.1 t + 75.6 sin(wt + 1.5)  
 periode: 16 ben(t)= 5695.8 -16.6 t + 72.6 sin(wt + 0.2)  
 periode: 17 ben(t)= 5740.5 -17.2 t + 70.6 sin(wt - 1.3)  
 periode: 18 ben(t)= 5794.2 -17.9 t + 70.1 sin(wt + 0.1)  
 periode: 19 ben(t)= 5855.1 -18.8 t + 71.1 sin(wt + 1.4)  
 periode: 20 ben(t)= 5922.3 -19.7 t + 73.6 sin(wt - 0.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	127.13	140.72	150.40	152.59	167.21	173.95	182.24	186.72	192.64	181.86	200.19	210.17	209.29	196.56	212.75	234.16	226.36	238.19	212.81	221.29	225.40	212.03
3	405.67	411.87	411.35	417.07	418.80	422.74	423.67	427.23	426.76	426.44	430.63	436.02	420.68	414.79	412.33	408.78	409.36	408.93	378.15	409.15	411.44	381.56
2	548.53	549.25	544.02	544.46	544.27	545.76	549.97	556.59	547.54	547.61	546.61	554.98	522.09	520.17	520.31	525.03	523.71	524.39	497.56	519.98	515.36	489.25
1	835.77	800.01	757.13	770.82	806.37	784.70	797.72	782.08	791.44	776.96	781.90	793.15	750.82	746.42	770.61	747.45	732.11	748.49	678.37	718.49	717.49	675.38
-1	2130.01	2008.95	1717.08	1788.85	1909.79	1844.83	1862.52	1694.30	1974.97	2053.83	1926.58	1994.64	1833.75	1817.50	1810.16	1787.56	1750.79	1793.33	1867.05	1780.92	1791.99	1757.75
-2	703.39	758.76	767.39	739.22	779.00	686.08	711.39	637.16	683.33	645.78	655.55	673.30	665.75	639.92	712.96	702.59	655.57	657.39	713.63	651.22	625.36	631.71
totaal	4750.50	4669.55	4347.36	4413.00	4625.45	4458.07	4527.50	4284.08	4616.68	4632.48	4541.46	4662.26	4402.37	4335.35	4439.11	4405.57	4297.89	4370.71	4347.56	4301.04	4287.04	4147.69

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4050.dat  
 uitvoerfiles:i:\scratch\boschloo\4050.uit,i:\scratch\boschloo\4050.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -169.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4848.0 -14.0 t  
 periode: 2 ben(t)= 4847.7 -14.1 t  
 periode: 3 ben(t)= 4864.1 -14.3 t + 94.5 sin(wt - 0.1)  
 periode: 4 ben(t)= 4850.3 -14.0 t + 38.9 sin(wt + 0.7)  
 periode: 5 ben(t)= 4800.5 -13.5 t +147.0 sin(wt + 1.4)  
 periode: 6 ben(t)= 4731.3 -12.5 t +111.3 sin(wt + 0.3)  
 periode: 7 ben(t)= 4734.6 -12.5 t + 90.4 sin(wt - 0.1)  
 periode: 8 ben(t)= 4608.7 -10.8 t +127.9 sin(wt + 1.3)  
 periode: 9 ben(t)= 4855.1 -14.2 t +104.6 sin(wt + 1.0)  
 periode: 10 ben(t)= 4875.6 -14.4 t + 66.7 sin(wt - 1.0)  
 periode: 11 ben(t)= 4598.7 -10.7 t + 98.4 sin(wt - 1.0)  
 periode: 12 ben(t)= 4395.6 - 7.9 t +141.3 sin(wt - 1.0)  
 periode: 13 ben(t)= 4395.7 - 7.9 t +163.8 sin(wt - 1.4)  
 periode: 14 ben(t)= 4532.6 - 9.8 t +180.9 sin(wt + 1.0)  
 periode: 15 ben(t)= 4745.6 -12.8 t +198.1 sin(wt - 0.0)  
 periode: 16 ben(t)= 5004.0 -16.3 t +215.7 sin(wt - 1.3)  
 periode: 17 ben(t)= 5292.9 -20.2 t +233.9 sin(wt + 0.4)  
 periode: 18 ben(t)= 5605.2 -24.3 t +253.4 sin(wt - 1.2)  
 periode: 19 ben(t)= 5937.3 -28.8 t +274.6 sin(wt + 0.2)  
 periode: 20 ben(t)= 6287.5 -33.4 t +297.9 sin(wt + 1.4)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	123.46	81.11	71.19	44.99	15.63	50.96	56.10	61.40	58.85	57.52	58.44	62.00	65.44	63.50	65.71	71.42	70.49	67.94	72.51	69.74	69.26	52.82
3	292.30	239.29	225.89	182.56	81.06	180.10	190.09	192.66	177.80	178.24	183.52	188.21	197.83	196.58	197.21	205.11	212.74	218.01	235.66	236.86	234.83	220.30
2	471.12	418.73	416.15	369.55	255.30	345.61	370.21	376.34	368.74	381.91	374.98	379.51	388.55	391.37	393.75	402.80	411.66	416.44	424.43	418.64	416.65	392.97
1	792.52	716.73	681.24	615.45	519.26	602.18	622.45	572.47	571.48	548.31	574.43	602.49	578.43	583.97	595.31	602.37	581.78	594.27	587.18	554.02	545.38	553.11
-1	2153.59	1981.84	1969.41	1787.75	1786.63	1761.63	1957.60	1841.79	1757.90	1859.97	1803.27	2039.83	2007.90	1769.29	1852.23	1994.42	1824.48	1951.84	1772.28	1820.67	1642.58	1774.20
-2	677.91	700.19	764.45	769.49	745.37	707.50	709.13	672.87	628.48	606.85	641.73	660.68	653.29	613.46	674.67	707.80	732.39	681.40	630.47	670.91	603.78	684.25
totaal	4510.91	4137.90	4128.33	3769.80	3403.25	3647.98	3905.59	3717.52	3563.24	3632.81	3636.38	3932.71	3891.43	3618.18	3778.87	3983.91	3833.53	3929.90	3722.52	3770.83	3512.47	3677.65

source program:SIRENE  
 stuurprogramma:a:\stuur\stuur\stu  
 sourcefile:b:\invoer\r4075.dat  
 uitvoerfiles:i:\scratch\boschloo\4075.uit,i:\scratch\boschloo\4075.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -215.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4107.6 + 0.4 t  
 periode: 2 ben(t)= 4109.9 + 0.8 t  
 periode: 3 ben(t)= 4091.3 + 0.6 t + 32.8 sin(wt + 1.4)  
 periode: 4 ben(t)= 4108.1 + 0.4 t + 12.2 sin(wt - 0.6)  
 periode: 5 ben(t)= 4084.8 + 0.7 t + 69.4 sin(wt + 1.4)  
 periode: 6 ben(t)= 4070.0 + 0.9 t + 37.4 sin(wt + 0.8)  
 periode: 7 ben(t)= 4031.9 + 1.4 t + 44.7 sin(wt - 0.5)  
 periode: 8 ben(t)= 4022.1 + 1.6 t + 46.1 sin(wt + 1.4)  
 periode: 9 ben(t)= 4107.2 + 0.4 t + 6.1 sin(wt + 0.2)  
 periode: 10 ben(t)= 3972.0 + 2.2 t + 62.3 sin(wt + 0.4)  
 periode: 11 ben(t)= 3721.8 + 5.6 t +117.5 sin(wt + 1.4)  
 periode: 12 ben(t)= 3622.9 + 6.9 t +143.4 sin(wt - 1.4)  
 periode: 13 ben(t)= 3687.1 + 6.0 t +153.7 sin(wt + 1.4)  
 periode: 14 ben(t)= 3834.7 + 3.9 t +160.1 sin(wt + 0.8)  
 periode: 15 ben(t)= 4020.0 + 1.4 t +166.0 sin(wt - 0.2)  
 periode: 16 ben(t)= 4224.4 - 1.3 t +172.5 sin(wt - 1.4)  
 periode: 17 ben(t)= 4440.9 - 4.2 t +180.5 sin(wt + 0.4)  
 periode: 18 ben(t)= 4666.8 - 7.2 t +190.3 sin(wt - 1.2)  
 periode: 19 ben(t)= 4901.6 -10.4 t +202.0 sin(wt + 0.2)  
 periode: 20 ben(t)= 5145.3 -13.6 t +215.8 sin(wt + 1.4)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	47.10	49.54	46.84	44.09	42.07	38.97	39.27	37.40	36.29	38.51	59.74	40.37	39.04	37.19	59.08	35.25	58.35	58.61	37.69	57.50	35.47	30.84
3	194.74	189.47	184.08	180.58	169.73	167.72	165.51	163.46	156.88	160.62	184.45	153.39	163.86	162.43	192.11	174.95	207.06	218.05	206.32	223.40	203.86	212.23
2	389.97	392.41	389.16	389.53	390.05	383.96	391.72	404.15	406.90	411.98	430.15	386.49	394.71	395.30	431.97	416.18	446.10	449.39	423.91	427.63	403.15	412.09
1	701.20	696.62	693.17	700.60	656.29	653.05	618.80	636.05	645.71	615.14	646.06	654.47	664.69	696.18	700.10	700.03	758.08	689.65	635.93	633.21	637.69	664.36
-1	2319.25	2242.89	2235.51	1989.35	1968.64	2004.63	2127.52	1998.02	2013.28	1990.41	2133.24	2068.74	2280.70	2175.00	2169.10	2170.64	2193.85	2058.82	2070.60	2124.09	2013.47	2099.14
-2	725.00	715.49	740.92	784.32	805.52	756.13	752.17	718.03	654.56	662.29	687.27	725.70	711.80	676.33	702.94	725.29	722.75	774.43	742.73	702.40	708.25	737.95
totaal	4377.26	4286.42	4289.69	4088.48	4032.30	4004.44	4094.98	3957.11	3913.61	3878.95	4140.90	4029.16	4254.80	4142.43	4255.30	4222.33	4386.19	4248.96	4117.18	4168.24	4001.90	4156.61

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4100.dat  
 uitvoerfiles:i:\scratch\boschloo\4100.uit,i:\scratch\boschloo\4100.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -195.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3676.9 + 7.6 t  
 periode: 2 ben(t)= 3674.6 + 7.2 t  
 periode: 3 ben(t)= 3683.6 + 7.5 t + 39.4 sin(wt - 0.8)  
 periode: 4 ben(t)= 3678.8 + 7.6 t + 28.8 sin(wt + 0.8)  
 periode: 5 ben(t)= 3679.7 + 7.6 t + 29.5 sin(wt - 1.0)  
 periode: 6 ben(t)= 3752.0 + 6.6 t + 73.0 sin(wt + 0.7)  
 periode: 7 ben(t)= 3536.3 + 9.5 t + 76.7 sin(wt - 0.9)  
 periode: 8 ben(t)= 3609.6 + 8.5 t + 50.6 sin(wt - 1.2)  
 periode: 9 ben(t)= 3688.0 + 7.6 t + 73.8 sin(wt - 0.3)  
 periode: 10 ben(t)= 3673.7 + 7.7 t + 92.7 sin(wt - 1.2)  
 periode: 11 ben(t)= 3630.6 + 8.2 t + 109.1 sin(wt - 0.0)  
 periode: 12 ben(t)= 3611.6 + 8.3 t + 119.8 sin(wt + 0.4)  
 periode: 13 ben(t)= 3615.7 + 8.2 t + 118.3 sin(wt + 0.3)  
 periode: 14 ben(t)= 3631.4 + 7.9 t + 105.5 sin(wt - 0.3)  
 periode: 15 ben(t)= 3651.4 + 7.7 t + 88.6 sin(wt - 1.2)  
 periode: 16 ben(t)= 3671.8 + 7.4 t + 73.3 sin(wt + 0.8)  
 periode: 17 ben(t)= 3690.8 + 7.2 t + 61.3 sin(wt - 0.6)  
 periode: 18 ben(t)= 3708.3 + 7.0 t + 52.3 sin(wt + 0.9)  
 periode: 19 ben(t)= 3724.4 + 6.9 t + 45.7 sin(wt - 0.8)  
 periode: 20 ben(t)= 3739.5 + 6.7 t + 40.9 sin(wt + 0.5)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	70.05	70.69	70.96	79.41	73.33	85.09	64.39	66.26	62.80	83.85	84.23	86.81	66.02	67.89	87.97	68.77	85.66	80.46	83.03	103.03	107.85	91.70
3	213.78	219.40	222.86	230.44	228.45	252.30	228.20	228.95	228.34	258.23	258.35	256.78	233.37	229.31	266.18	235.31	262.82	246.10	247.05	278.73	278.54	254.29
2	441.12	446.90	452.33	460.94	458.61	480.04	458.07	461.90	454.82	485.31	470.50	476.44	422.59	424.33	453.78	439.30	460.94	434.42	443.85	452.91	457.77	439.90
1	746.88	743.39	762.12	808.74	768.21	777.29	715.19	771.80	767.17	769.90	776.80	721.43	710.31	747.28	805.27	806.21	843.33	770.19	758.80	785.95	775.15	744.95
-1	1906.17	1874.34	2137.18	1992.20	1855.46	1879.13	1922.68	2092.55	1996.91	1983.85	1861.81	1835.56	1915.62	2112.06	2048.17	2175.00	2121.00	2161.89	1937.21	2034.67	1992.37	1979.47
-2	680.25	696.41	726.08	766.62	789.96	791.68	765.73	699.37	656.17	673.64	660.82	689.68	664.63	680.56	671.00	683.00	692.25	755.50	698.32	712.50	660.72	738.47
totaal	4058.25	4051.12	4371.54	4338.35	4174.01	4265.54	4154.26	4320.83	4166.22	4254.78	4112.51	4066.71	4012.54	4261.42	4332.37	4407.60	4466.00	4448.56	4168.27	4367.78	4272.39	4248.79







source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4175.dat  
 uitvoerfiles:i:\scratch\boschloo\4175.uit,i:\scratch\boschloo\4175.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -190.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4521.2 - 1.7 t  
 periode: 2 ben(t)= 4517.7 - 2.3 t  
 periode: 3 ben(t)= 4476.3 - 1.1 t + 90.5 sin(wt + 1.4)  
 periode: 4 ben(t)= 4520.2 - 1.7 t + 14.8 sin(wt - 0.9)  
 periode: 5 ben(t)= 4519.3 - 1.8 t + 95.7 sin(wt - 0.8)  
 periode: 6 ben(t)= 4367.1 + 0.4 t +163.0 sin(wt + 0.9)  
 periode: 7 ben(t)= 4891.5 - 6.6 t +202.8 sin(wt - 0.8)  
 periode: 8 ben(t)= 4690.4 - 4.0 t +101.1 sin(wt - 1.5)  
 periode: 9 ben(t)= 4515.6 - 1.7 t + 59.1 sin(wt + 0.1)  
 periode: 10 ben(t)= 4751.6 - 4.8 t +121.0 sin(wt - 0.2)  
 periode: 11 ben(t)= 5067.6 - 9.0 t +172.5 sin(wt + 1.2)  
 periode: 12 ben(t)= 5133.8 - 9.9 t +182.0 sin(wt - 1.5)  
 periode: 13 ben(t)= 5007.2 - 8.2 t +174.3 sin(wt - 1.5)  
 periode: 14 ben(t)= 4809.1 - 5.6 t +167.4 sin(wt + 1.2)  
 periode: 15 ben(t)= 4594.7 - 2.7 t +165.3 sin(wt + 0.4)  
 periode: 16 ben(t)= 4380.8 + 0.1 t +167.0 sin(wt - 0.8)  
 periode: 17 ben(t)= 4169.9 + 2.9 t +171.6 sin(wt + 1.0)  
 periode: 18 ben(t)= 3960.7 + 5.7 t +178.5 sin(wt - 0.6)  
 periode: 19 ben(t)= 3751.3 + 8.6 t +187.4 sin(wt + 0.8)  
 periode: 20 ben(t)= 3539.7 +11.4 t +198.2 sin(wt - 1.2)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	153.71	153.33	105.27	154.37	133.51	155.25	152.34	153.12	96.73	156.63	157.14	106.47	99.48	99.67	69.30	70.63	90.69	93.25	79.36	111.30	116.80	94.89
3	299.29	304.67	254.46	313.28	291.46	315.38	319.52	329.45	270.15	341.84	354.16	288.09	267.31	277.51	245.25	245.11	269.03	281.58	269.71	313.33	317.18	294.04
2	533.87	550.29	498.42	560.02	539.55	562.95	566.32	573.26	514.49	584.86	572.23	493.18	456.66	470.03	437.90	442.51	468.40	473.61	453.54	488.17	505.30	476.49
1	810.17	781.30	705.56	765.51	750.73	773.90	812.38	796.57	713.52	745.22	758.47	693.73	675.90	718.06	645.98	642.21	682.38	695.54	703.86	778.52	762.43	733.25
-1	2107.84	1961.75	1798.35	1897.64	2041.02	2062.64	2151.58	1939.66	1949.44	1804.85	2003.94	2221.95	2067.44	2087.47	1803.76	1983.25	1958.48	2060.48	2160.81	2223.30	2035.52	2076.11
-2	660.60	685.05	655.54	690.45	680.48	751.56	798.83	726.65	632.34	677.25	670.47	734.66	738.25	729.43	689.81	735.88	694.95	742.12	767.17	803.87	800.58	798.27
totaal	4565.49	4436.39	4017.60	4381.26	4436.75	4621.69	4800.98	4518.71	4176.68	4310.65	4516.42	4538.08	4305.03	4382.18	3892.01	4119.59	4163.93	4346.59	4434.45	4718.48	4537.81	4473.06

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4200.dat  
 uitvoerfiles:i:\scratch\boschloo\4200.uit,i:\scratch\boschloo\4200.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -220.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5258.4 - 3.3 t  
 periode: 2 ben(t)= 5256.1 - 3.7 t  
 periode: 3 ben(t)= 5268.0 - 3.5 t + 79.6 sin(wt - 0.2)  
 periode: 4 ben(t)= 5260.7 - 3.3 t + 26.5 sin(wt + 1.4)  
 periode: 5 ben(t)= 5241.3 - 3.0 t + 51.8 sin(wt + 0.2)  
 periode: 6 ben(t)= 5092.4 - 1.1 t +167.1 sin(wt + 0.1)  
 periode: 7 ben(t)= 5521.7 - 6.9 t +170.5 sin(wt - 1.4)  
 periode: 8 ben(t)= 5394.7 - 5.0 t +113.1 sin(wt + 0.3)  
 periode: 9 ben(t)= 5262.9 - 3.3 t + 60.9 sin(wt + 0.2)  
 periode: 10 ben(t)= 5273.7 - 3.5 t + 27.2 sin(wt - 1.5)  
 periode: 11 ben(t)= 5324.2 - 4.2 t + 20.8 sin(wt - 1.5)  
 periode: 12 ben(t)= 5336.6 - 4.3 t + 25.6 sin(wt + 1.4)  
 periode: 13 ben(t)= 5320.8 - 4.1 t + 32.4 sin(wt + 0.8)  
 periode: 14 ben(t)= 5297.3 - 3.7 t + 36.7 sin(wt + 0.1)  
 periode: 15 ben(t)= 5273.9 - 3.4 t + 37.6 sin(wt - 0.9)  
 periode: 16 ben(t)= 5252.6 - 3.1 t + 36.6 sin(wt + 1.0)  
 periode: 17 ben(t)= 5234.0 - 2.9 t + 35.1 sin(wt - 0.4)  
 periode: 18 ben(t)= 5217.6 - 2.7 t + 33.6 sin(wt + 1.1)  
 periode: 19 ben(t)= 5203.0 - 2.5 t + 32.5 sin(wt - 0.6)  
 periode: 20 ben(t)= 5189.9 - 2.3 t + 31.7 sin(wt + 0.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	135.34	134.48	143.43	133.28	134.10	132.42	129.95	106.44	109.89	136.00	106.71	92.65	111.78	113.49	110.05	110.15	111.54	113.43	118.42	119.91	129.30	117.57
3	351.81	353.61	364.30	352.34	356.35	353.69	351.26	329.90	338.62	370.58	308.11	320.86	349.75	342.27	350.92	356.19	359.05	368.92	370.01	373.81	375.22	368.29
2	650.87	664.78	675.72	663.63	674.60	667.85	668.02	644.27	655.96	688.73	605.62	617.86	637.82	635.57	646.00	653.20	654.98	648.39	643.22	643.22	651.31	638.79
1	970.58	925.61	965.23	934.82	892.57	909.88	998.68	964.82	938.99	955.09	834.10	873.96	900.45	950.67	937.78	910.26	889.93	855.17	905.18	880.78	901.03	905.57
-1	2349.71	2147.57	2087.23	1988.06	2090.38	2265.28	2367.50	2327.25	2197.36	2140.67	2071.17	2416.70	2420.75	2385.21	2193.45	2218.40	1975.56	2137.84	2282.37	2278.00	2106.61	2254.04
-2	716.07	724.23	764.55	733.51	744.13	800.22	824.50	823.00	714.09	710.33	704.26	788.30	792.00	777.07	743.55	791.50	707.09	799.42	778.63	792.20	681.22	722.35
totaal	5174.39	4950.28	5000.46	4805.63	4892.11	5129.34	5339.91	5195.67	4954.91	5001.40	4629.98	5110.33	5212.56	5204.28	4981.74	5039.70	4698.17	4923.17	5097.83	5087.91	4844.69	5006.60

source program:SIRENE  
 stuurprogramma:a:\stuur\stural.stu  
 sourcefile:b:\invoer\r4225.dat  
 uitvoerfiles:i:\scratch\boschloo\4225.uit,i:\scratch\boschloo\4225.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -223.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4770.8 + 6.9 t  
 periode: 2 ben(t)= 4768.5 + 6.5 t  
 periode: 3 ben(t)= 4762.1 + 7.0 t + 20.5 sin(wt + 0.5)  
 periode: 4 ben(t)= 4775.4 + 6.9 t + 59.3 sin(wt + 1.1)  
 periode: 5 ben(t)= 4773.0 + 7.0 t + 87.7 sin(wt - 0.8)  
 periode: 6 ben(t)= 4747.6 + 7.2 t + 30.4 sin(wt - 0.3)  
 periode: 7 ben(t)= 4803.6 + 6.5 t + 27.2 sin(wt - 0.0)  
 periode: 8 ben(t)= 4807.0 + 6.4 t + 32.4 sin(wt + 0.2)  
 periode: 9 ben(t)= 4777.0 + 6.9 t + 76.7 sin(wt + 0.1)  
 periode: 10 ben(t)= 4708.6 + 7.8 t + 87.1 sin(wt - 0.9)  
 periode: 11 ben(t)= 4658.6 + 8.4 t + 79.3 sin(wt + 0.3)  
 periode: 12 ben(t)= 4660.1 + 8.3 t + 57.0 sin(wt + 0.8)  
 periode: 13 ben(t)= 4691.7 + 7.9 t + 30.5 sin(wt + 1.3)  
 periode: 14 ben(t)= 4731.7 + 7.5 t + 33.2 sin(wt - 1.3)  
 periode: 15 ben(t)= 4769.9 + 7.0 t + 53.5 sin(wt + 1.3)  
 periode: 16 ben(t)= 4803.5 + 6.6 t + 69.4 sin(wt + 0.3)  
 periode: 17 ben(t)= 4832.8 + 6.3 t + 80.3 sin(wt - 1.1)  
 periode: 18 ben(t)= 4859.1 + 5.9 t + 88.3 sin(wt + 0.4)  
 periode: 19 ben(t)= 4883.5 + 5.5 t + 94.6 sin(wt - 1.3)  
 periode: 20 ben(t)= 4906.7 + 5.2 t + 100.2 sin(wt - 0.1)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	78.88	80.11	79.46	82.02	81.98	81.06	86.80	87.67	85.66	86.40	101.37	100.75	95.48	91.81	85.21	92.33	87.63	104.50	113.24	109.45	112.50	115.74
3	400.50	406.31	409.25	411.93	419.46	415.36	423.34	430.01	433.49	435.42	488.21	508.73	508.27	494.25	497.58	518.96	494.47	508.69	526.24	513.49	508.51	527.96
2	736.66	745.94	747.38	752.99	770.92	766.06	776.23	780.55	792.13	793.60	780.40	784.14	752.41	755.46	755.51	759.44	766.68	766.07	775.52	753.14	755.39	756.24
1	989.64	1041.41	1052.48	1039.78	1012.56	1025.05	1046.54	1068.52	1069.92	1073.24	1024.40	999.07	1009.14	1030.51	1043.83	1066.40	1061.04	1033.27	1035.96	977.23	978.05	1025.69
-1	2039.63	2161.36	2148.74	2137.11	2176.20	2234.50	2116.40	2257.00	2081.40	2193.42	2106.85	2057.75	2276.67	2298.75	2261.40	2259.50	2038.94	2162.05	2217.19	2182.16	2117.75	1995.24
-2	678.00	739.78	767.14	811.94	782.88	788.67	760.70	854.83	781.50	741.84	755.70	813.25	813.26	798.42	771.97	796.67	751.11	760.45	769.27	754.94	700.66	700.94
totaal	4923.30	5174.89	5204.45	5235.77	5244.01	5310.70	5210.01	5478.58	5244.11	5323.92	5256.93	5263.69	5455.23	5469.20	5415.49	5493.29	5199.86	5335.04	5437.43	5290.41	5172.86	5121.82

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4250.dat  
 uitvoerfiles:i:\scratch\boschloo\4250.uit,i:\scratch\boschloo\4250.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -130.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3090.3 + 9.3 t  
 periode: 2 ben(t)= 3087.8 + 8.9 t  
 periode: 3 ben(t)= 3119.6 + 8.9 t + 59.9 sin(wt + 1.4)  
 periode: 4 ben(t)= 3091.1 + 9.3 t + 30.4 sin(wt + 0.2)  
 periode: 5 ben(t)= 3107.1 + 9.1 t + 42.7 sin(wt + 1.0)  
 periode: 6 ben(t)= 3236.9 + 7.4 t +169.3 sin(wt - 0.2)  
 periode: 7 ben(t)= 2888.8 +12.1 t +146.7 sin(wt + 1.5)  
 periode: 8 ben(t)= 3018.7 +10.3 t + 37.8 sin(wt + 1.1)  
 periode: 9 ben(t)= 3101.2 + 9.3 t + 82.8 sin(wt - 0.2)  
 periode: 10 ben(t)= 3069.8 + 9.7 t +121.6 sin(wt - 1.1)  
 periode: 11 ben(t)= 3046.2 + 9.9 t +140.8 sin(wt - 0.0)  
 periode: 12 ben(t)= 3056.8 + 9.6 t +146.3 sin(wt + 0.3)  
 periode: 13 ben(t)= 3071.9 + 9.3 t +134.0 sin(wt + 0.1)  
 periode: 14 ben(t)= 3079.6 + 9.2 t +108.7 sin(wt - 0.5)  
 periode: 15 ben(t)= 3077.8 + 9.2 t + 81.8 sin(wt - 1.5)  
 periode: 16 ben(t)= 3066.2 + 9.5 t + 59.9 sin(wt + 0.3)  
 periode: 17 ben(t)= 3045.8 + 9.8 t + 44.4 sin(wt - 1.2)  
 periode: 18 ben(t)= 3018.0 +10.2 t + 34.9 sin(wt + 0.0)  
 periode: 19 ben(t)= 2983.9 +10.7 t + 30.6 sin(wt + 1.1)  
 periode: 20 ben(t)= 2944.6 +11.2 t + 30.3 sin(wt - 1.1)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	21.59	22.37	22.26	20.76	27.10	27.50	30.20	35.71	34.65	41.88	37.88
	42.15	42.36	36.39	37.39	44.67	38.59	55.23	61.40	71.21	75.26	80.97
3	294.70	295.19	295.86	300.83	306.07	308.10	315.45	324.57	323.54	328.05	332.62
	342.05	335.31	328.74	330.96	341.35	335.08	350.64	359.12	365.37	367.68	369.34
2	399.03	398.17	399.20	405.78	412.84	419.68	424.70	428.14	431.13	432.96	437.83
	445.71	418.90	421.42	425.70	431.68	434.36	435.20	440.41	438.04	433.77	436.89
1	539.63	552.33	546.57	593.49	596.76	606.71	563.29	576.68	586.22	613.64	621.42
	579.47	550.44	536.59	612.57	638.58	609.67	600.08	582.51	568.20	552.99	587.88
-1	1546.38	1667.94	1813.75	1877.55	1876.78	1864.43	1572.77	1602.89	1767.17	1710.12	1699.01
	1682.82	1529.34	1499.54	1804.83	1944.92	1864.75	1873.74	1751.22	1649.27	1658.83	1772.33
-2	606.00	658.75	657.95	727.77	722.97	738.52	626.57	714.50	716.17	684.24	594.19
	709.86	678.49	686.56	668.62	713.42	708.08	687.60	680.36	668.84	604.42	621.83
totaal	3407.33	3594.75	3735.58	3926.19	3942.53	3964.93	3532.98	3682.49	3858.88	3810.88	3722.95
	3802.06	3554.85	3509.23	3880.07	4114.63	3990.53	4002.48	3875.03	3760.93	3692.95	3869.25

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4275.dat  
 uitvoerfiles:i:\scratch\boschloo\4275.uit,i:\scratch\boschloo\4275.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -228.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4690.6 + 8.0 t  
 periode: 2 ben(t)= 4690.8 + 8.1 t  
 periode: 3 ben(t)= 4679.8 + 8.2 t + 67.8 sin(wt - 0.1)  
 periode: 4 ben(t)= 4684.0 + 8.1 t +104.0 sin(wt - 0.8)  
 periode: 5 ben(t)= 4736.4 + 7.4 t +120.2 sin(wt + 0.5)  
 periode: 6 ben(t)= 4837.1 + 6.2 t +158.6 sin(wt - 0.1)  
 periode: 7 ben(t)= 4506.8 +10.5 t +113.3 sin(wt - 1.4)  
 periode: 8 ben(t)= 4538.8 +10.1 t + 87.4 sin(wt + 1.6)  
 periode: 9 ben(t)= 4715.2 + 7.9 t +130.1 sin(wt - 1.0)  
 periode: 10 ben(t)= 4943.9 + 4.8 t +156.7 sin(wt + 1.1)  
 periode: 11 ben(t)= 5069.9 + 2.9 t +161.7 sin(wt - 0.9)  
 periode: 12 ben(t)= 5032.6 + 3.3 t +147.9 sin(wt - 0.5)  
 periode: 13 ben(t)= 4927.7 + 4.7 t +124.0 sin(wt - 0.7)  
 periode: 14 ben(t)= 4818.7 + 6.2 t + 99.2 sin(wt - 1.4)  
 periode: 15 ben(t)= 4719.6 + 7.5 t + 81.9 sin(wt + 0.6)  
 periode: 16 ben(t)= 4628.8 + 8.8 t + 73.6 sin(wt - 0.8)  
 periode: 17 ben(t)= 4543.0 +10.0 t + 71.7 sin(wt + 0.7)  
 periode: 18 ben(t)= 4459.9 +11.2 t + 73.4 sin(wt - 1.0)  
 periode: 19 ben(t)= 4377.8 +12.3 t + 77.0 sin(wt + 0.3)  
 periode: 20 ben(t)= 4295.6 +13.4 t + 81.6 sin(wt + 1.4)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	12.52	29.94	14.31	19.84	28.13	33.58	50.24	68.65	79.27	77.95	85.13	83.57	73.82	85.89	109.59	110.11	111.73	129.56	84.49	127.85	133.65	118.29
3	456.31	473.24	458.49	460.64	463.69	467.24	478.15	483.03	484.73	479.88	489.49	485.96	476.02	479.39	501.79	495.26	474.21	469.70	405.78	457.90	444.16	435.49
2	715.24	705.54	695.65	694.70	704.30	708.99	713.76	720.91	726.92	731.11	735.09	750.51	699.32	702.71	708.82	709.55	714.15	711.88	635.51	683.17	651.06	649.41
1	1055.74	1019.81	1016.61	1062.76	1079.60	1079.39	1060.16	1113.90	1068.24	1097.20	1102.56	1096.42	985.67	1015.39	1086.73	1062.93	1067.28	1082.83	983.76	1034.43	1066.59	1037.65
-1	2123.80	2105.22	1998.21	2320.14	2511.27	2061.80	2199.00	2205.48	2292.05	2332.92	2273.79	2104.00	1992.33	1968.01	2215.82	2291.50	2334.20	2387.83	2244.88	2308.24	2414.61	2162.92
-2	741.70	732.78	722.88	792.72	850.20	771.43	785.08	762.35	808.00	771.86	703.83	723.34	658.28	763.17	709.10	828.55	847.97	765.10	749.03	770.09	806.92	711.41
totaal	5105.31	5066.54	4906.16	5350.81	5637.19	5122.44	5286.39	5354.32	5459.21	5490.93	5389.90	5243.80	4885.45	5014.54	5331.84	5497.89	5549.54	5546.91	5103.45	5381.69	5516.98	5115.17

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4300.dat  
 uitvoerfiles:i:\scratch\boschloo\4300.uit,i:\scratch\boschloo\4300.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -188.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5006.1 + 0.3 t  
 periode: 2 ben(t)= 5003.8 - 0.1 t  
 periode: 3 ben(t)= 4985.1 + 0.6 t + 43.2 sin(wt + 1.4)  
 periode: 4 ben(t)= 5006.0 + 0.3 t + 44.2 sin(wt - 0.0)  
 periode: 5 ben(t)= 5003.5 + 0.4 t + 33.0 sin(wt - 0.6)  
 periode: 6 ben(t)= 4984.0 + 0.7 t + 72.4 sin(wt - 1.4)  
 periode: 7 ben(t)= 4996.4 + 0.5 t + 90.9 sin(wt + 0.8)  
 periode: 8 ben(t)= 4869.6 + 2.0 t +108.2 sin(wt + 0.3)  
 periode: 9 ben(t)= 5018.4 + 0.0 t +144.6 sin(wt + 1.1)  
 periode: 10 ben(t)= 5462.3 - 5.9 t +211.4 sin(wt + 0.2)  
 periode: 11 ben(t)= 5816.4 -10.6 t +246.7 sin(wt + 1.4)  
 periode: 12 ben(t)= 5821.7 -10.7 t +240.4 sin(wt - 1.3)  
 periode: 13 ben(t)= 5621.5 - 8.0 t +223.5 sin(wt - 1.3)  
 periode: 14 ben(t)= 5362.2 - 4.6 t +210.6 sin(wt + 1.3)  
 periode: 15 ben(t)= 5096.8 - 1.0 t +204.0 sin(wt + 0.4)  
 periode: 16 ben(t)= 4836.4 + 2.5 t +202.9 sin(wt - 0.8)  
 periode: 17 ben(t)= 4580.4 + 5.9 t +206.1 sin(wt + 0.9)  
 periode: 18 ben(t)= 4325.6 + 9.4 t +213.0 sin(wt - 0.7)  
 periode: 19 ben(t)= 4069.1 +12.8 t +223.0 sin(wt + 0.6)  
 periode: 20 ben(t)= 3808.6 +16.3 t +235.7 sin(wt - 1.3)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	70.31	71.44	73.88	75.11	73.65	75.97	73.91	73.17	73.52	79.65	69.94	70.31	75.02	63.82	63.34	75.32	69.64	67.65	72.17	61.69	74.46	89.49
3	503.48	510.56	514.82	523.48	520.80	523.88	523.56	527.88	532.68	544.36	533.12	544.00	542.71	536.59	530.95	534.16	536.68	524.56	531.14	514.74	525.16	534.36
2	690.50	700.22	702.89	705.10	707.08	708.34	712.64	718.08	721.58	726.86	725.92	729.10	683.45	681.68	675.22	675.82	688.16	659.89	662.50	664.43	674.92	684.09
1	970.81	951.18	953.06	942.94	976.95	959.24	975.10	1003.59	976.28	976.19	1002.29	973.24	925.88	924.63	898.65	887.69	887.93	877.91	942.62	965.71	990.65	991.13
-1	1980.00	2022.91	1996.13	1924.07	2126.64	2029.50	2081.72	2112.51	2112.79	2241.75	2108.69	1987.75	1981.65	1866.22	1734.49	1871.88	1971.60	2320.86	2256.68	2271.13	1925.40	2158.83
-2	709.75	706.96	742.40	697.32	799.80	808.08	766.11	743.78	802.21	785.50	652.84	675.25	644.35	681.21	611.58	734.00	756.00	760.89	780.74	784.71	685.60	732.97
totaal	4924.85	4963.28	4983.17	4868.02	5204.93	5105.01	5133.03	5179.01	5219.06	5354.30	5092.79	4979.65	4853.07	4754.15	4514.23	4778.87	4910.00	5211.75	5245.84	5262.41	4876.19	5190.87



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4350.dat  
 uitvoerfiles:i:\scratch\boschloo\4350.uit,i:\scratch\boschloo\4350.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -140.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5119.8 - 6.7 t  
 periode: 2 ben(t)= 5119.5 - 6.7 t  
 periode: 3 ben(t)= 5110.2 - 6.6 t + 66.1 sin(wt - 0.7)  
 periode: 4 ben(t)= 5119.9 - 6.6 t + 42.4 sin(wt - 0.0)  
 periode: 5 ben(t)= 5127.4 - 6.8 t + 42.4 sin(wt - 0.3)  
 periode: 6 ben(t)= 5112.4 - 6.6 t + 30.8 sin(wt - 0.9)  
 periode: 7 ben(t)= 5100.1 - 6.4 t + 27.5 sin(wt + 0.3)  
 periode: 8 ben(t)= 5060.0 - 5.9 t + 44.2 sin(wt + 0.4)  
 periode: 9 ben(t)= 5113.9 - 6.7 t + 93.9 sin(wt + 0.2)  
 periode: 10 ben(t)= 5196.5 - 7.8 t +118.1 sin(wt - 0.9)  
 periode: 11 ben(t)= 5220.8 - 8.0 t +134.2 sin(wt + 0.1)  
 periode: 12 ben(t)= 5197.6 - 7.5 t +145.1 sin(wt + 0.4)  
 periode: 13 ben(t)= 5171.2 - 7.1 t +143.0 sin(wt + 0.2)  
 periode: 14 ben(t)= 5153.3 - 6.8 t +127.8 sin(wt - 0.4)  
 periode: 15 ben(t)= 5143.6 - 6.7 t +107.7 sin(wt - 1.4)  
 periode: 16 ben(t)= 5141.1 - 6.7 t + 89.5 sin(wt + 0.6)  
 periode: 17 ben(t)= 5144.8 - 6.8 t + 75.1 sin(wt - 0.9)  
 periode: 18 ben(t)= 5153.8 - 7.0 t + 64.5 sin(wt + 0.6)  
 periode: 19 ben(t)= 5166.9 - 7.2 t + 56.8 sin(wt - 1.2)  
 periode: 20 ben(t)= 5183.4 - 7.5 t + 51.3 sin(wt - 0.1)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	127.47	134.50	143.69	157.21	163.78	164.54	162.47	165.79	158.84	160.39	161.96	184.94	171.41	164.54	157.13	171.01	170.75	169.51	174.34	165.60	167.78	171.33
3	490.76	492.54	497.70	500.95	505.15	508.31	511.56	516.67	523.44	525.95	536.03	539.31	532.22	530.28	529.57	538.00	534.95	537.24	527.72	521.23	517.93	517.54
2	572.47	583.66	588.39	594.26	600.35	605.90	606.51	609.86	615.52	617.76	603.90	615.64	609.35	617.54	614.18	620.60	619.51	618.81	589.44	575.87	571.65	573.40
1	851.87	807.72	797.01	798.31	757.75	749.61	746.69	784.85	772.68	764.36	712.10	814.74	823.93	787.14	795.65	792.21	780.89	693.71	700.00	684.28	662.58	742.85
-1	2104.30	2045.63	1812.84	1903.54	1745.95	1719.75	1902.16	1874.05	1862.53	2003.50	2030.01	1968.32	1895.23	1742.73	1893.17	1807.50	1727.20	1601.69	1907.35	1851.73	1945.18	1919.44
-2	689.20	705.75	719.57	677.00	713.55	715.25	686.71	709.90	715.47	790.83	688.21	714.35	687.80	659.93	597.33	690.64	629.68	708.05	714.00	806.31	725.03	659.29
totaal	4836.08	4769.80	4559.20	4631.28	4486.52	4463.35	4616.10	4661.13	4648.48	4862.80	4732.23	4837.30	4719.95	4502.17	4587.03	4619.97	4462.98	4328.99	4612.85	4605.03	4590.16	4583.84



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4375.dat  
 uitvoerfiles:i:\scratch\boschloo\4375.uit,i:\scratch\boschloo\4375.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -147.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5743.2 -14.0 t  
 periode: 2 ben(t)= 5744.4 -13.8 t  
 periode: 3 ben(t)= 5740.8 -14.0 t + 11.0 sin(wt - 0.9)  
 periode: 4 ben(t)= 5740.1 -14.0 t + 37.3 sin(wt - 1.3)  
 periode: 5 ben(t)= 5732.2 -13.9 t + 79.5 sin(wt - 1.1)  
 periode: 6 ben(t)= 5853.3 -15.4 t +110.2 sin(wt + 0.1)  
 periode: 7 ben(t)= 5561.9 -11.6 t + 99.3 sin(wt - 1.0)  
 periode: 8 ben(t)= 5705.4 -13.5 t + 28.6 sin(wt + 0.3)  
 periode: 9 ben(t)= 5731.6 -13.9 t + 61.5 sin(wt - 0.9)  
 periode: 10 ben(t)= 5550.4 -11.5 t +106.7 sin(wt + 0.9)  
 periode: 11 ben(t)= 5399.3 - 9.4 t +131.1 sin(wt - 1.1)  
 periode: 12 ben(t)= 5412.2 - 9.5 t +135.9 sin(wt - 0.6)  
 periode: 13 ben(t)= 5510.7 -10.7 t +131.6 sin(wt - 0.6)  
 periode: 14 ben(t)= 5622.3 -12.1 t +121.9 sin(wt - 1.2)  
 periode: 15 ben(t)= 5724.9 -13.5 t +110.6 sin(wt + 1.0)  
 periode: 16 ben(t)= 5817.0 -14.8 t +101.1 sin(wt - 0.2)  
 periode: 17 ben(t)= 5901.5 -16.0 t + 94.5 sin(wt + 1.5)  
 periode: 18 ben(t)= 5981.1 -17.1 t + 90.6 sin(wt - 0.2)  
 periode: 19 ben(t)= 6058.1 -18.1 t + 89.1 sin(wt + 1.1)  
 periode: 20 ben(t)= 6133.7 -19.2 t + 89.3 sin(wt - 0.9)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	122.85	127.48	137.80	148.75	152.80	153.48	155.67	153.99	157.15	142.44	149.35	155.83	156.84	154.15	156.35	165.16	167.48	159.04	163.41	155.05	167.51	164.87
3	403.33	409.01	412.96	421.84	423.91	428.00	430.88	436.50	441.04	435.19	443.26	445.41	446.72	446.26	452.88	460.45	465.48	472.05	474.35	447.63	448.20	449.62
2	550.23	572.52	582.22	591.01	596.38	600.31	602.95	605.16	600.45	603.96	610.80	609.49	596.42	600.57	601.97	614.63	617.65	609.86	597.84	559.45	561.48	561.52
1	882.67	869.85	892.80	901.10	880.55	836.02	831.30	845.67	840.58	822.01	817.22	864.01	882.56	850.80	872.15	880.78	882.30	831.40	753.30	742.46	781.74	810.46
-1	2145.31	2170.30	2115.89	1995.04	2028.50	1857.54	1917.70	1797.21	1945.77	1965.12	2120.84	2102.37	2040.92	1884.42	1889.05	1966.85	1983.94	1723.72	1643.69	1759.67	1906.12	1942.79
-2	721.48	745.53	794.46	719.16	724.29	689.80	696.13	688.81	729.57	837.26	718.45	730.50	658.43	687.55	668.02	743.42	707.22	655.65	722.45	729.33	704.71	734.50
totaal	4825.87	4894.69	4936.13	4776.90	4806.44	4565.14	4634.64	4527.34	4714.55	4805.97	4859.93	4907.62	4781.89	4623.75	4640.41	4831.28	4824.08	4451.72	4355.03	4393.60	4569.77	4663.76



source program: SIRENE  
 stuurprogramma: a:\stuur\stuural.stu  
 sourcefile: b:\invoer\r4425.dat  
 uitvoerfiles: i:\scratch\boschloo\4425.uit, i:\scratch\boschloo\4425.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -185.00  
 zee grens: 810.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend: vrij  
 amplitude: vrij  
 fase/jr opgang: vrij

periode: 1 ben(t)= 5164.7 - 2.2 t  
 periode: 2 ben(t)= 5164.2 - 2.3 t  
 periode: 3 ben(t)= 5128.9 - 1.7 t + 70.4 sin(wt + 1.0)  
 periode: 4 ben(t)= 5174.1 - 2.3 t +111.8 sin(wt + 1.3)  
 periode: 5 ben(t)= 5164.7 - 2.1 t +100.2 sin(wt - 0.8)  
 periode: 6 ben(t)= 5147.7 - 2.0 t + 41.3 sin(wt - 1.5)  
 periode: 7 ben(t)= 5224.8 - 3.0 t + 93.2 sin(wt + 0.3)  
 periode: 8 ben(t)= 5302.4 - 4.1 t + 72.9 sin(wt + 1.2)  
 periode: 9 ben(t)= 5159.5 - 2.0 t +150.9 sin(wt + 0.8)  
 periode: 10 ben(t)= 4800.1 + 2.8 t +211.4 sin(wt - 0.3)  
 periode: 11 ben(t)= 4544.5 + 6.1 t +228.4 sin(wt + 0.8)  
 periode: 12 ben(t)= 4562.3 + 5.7 t +208.1 sin(wt + 1.3)  
 periode: 13 ben(t)= 4722.3 + 3.6 t +173.7 sin(wt + 1.2)  
 periode: 14 ben(t)= 4914.7 + 1.0 t +144.9 sin(wt + 0.9)  
 periode: 15 ben(t)= 5101.2 - 1.4 t +131.4 sin(wt + 0.2)  
 periode: 16 ben(t)= 5274.0 - 3.6 t +130.1 sin(wt - 0.8)  
 periode: 17 ben(t)= 5435.0 - 5.7 t +134.7 sin(wt + 1.1)  
 periode: 18 ben(t)= 5588.0 - 7.8 t +141.9 sin(wt - 0.4)  
 periode: 19 ben(t)= 5736.3 - 9.8 t +150.3 sin(wt + 1.0)  
 periode: 20 ben(t)= 5882.6 -11.8 t +159.7 sin(wt - 0.9)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	99.50	105.69	105.40	109.84	117.19	116.26	123.24	130.15	138.04	146.51	154.62	162.65	161.77	167.72	168.25	178.70	181.50	204.42	225.16	219.83	139.89	147.85
3	401.87	397.23	388.23	388.69	390.12	393.54	395.81	399.48	407.31	406.03	422.50	409.17	409.30	413.35	412.52	415.27	414.33	422.34	430.86	420.15	335.38	343.11
2	609.11	573.60	558.92	566.83	594.22	605.20	610.44	616.96	620.12	613.42	598.25	579.63	572.99	582.69	589.02	604.45	608.48	613.87	615.73	597.01	500.06	516.77
1	931.56	926.10	891.46	979.86	1012.44	988.21	955.81	995.72	930.03	905.70	921.00	956.10	971.73	984.94	1002.11	985.87	959.08	963.82	994.22	920.89	818.08	866.67
-1	1875.26	2178.81	2371.22	2239.67	2316.08	2112.07	2160.63	2077.12	1966.45	1992.29	2093.29	2072.76	2329.73	2322.54	2280.79	2223.79	2116.77	2042.04	2087.38	2129.83	2005.12	2144.18
-2	730.66	792.30	817.85	833.91	775.75	811.83	782.20	690.38	684.48	760.46	838.55	779.74	812.77	810.83	797.49	800.71	755.67	723.53	759.87	716.21	689.46	754.57
totaal	4647.95	4973.73	5133.09	5118.81	5205.80	5027.11	5028.13	4909.81	4746.43	4824.40	5028.21	4960.05	5258.29	5282.08	5250.18	5208.78	5035.84	4970.02	5113.23	5003.92	4487.99	4773.15



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4475.dat  
 uitvoerfiles:i:\scratch\boschloo\4475.uit,i:\scratch\boschloo\4475.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -125.00  
 zeegrens: 810.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3596.6 + 8.4 t  
 periode: 2 ben(t)= 3598.7 + 8.8 t  
 periode: 3 ben(t)= 3624.6 + 8.0 t + 60.7 sin(wt + 0.7)  
 periode: 4 ben(t)= 3593.0 + 8.4 t + 44.8 sin(wt + 1.1)  
 periode: 5 ben(t)= 3600.5 + 8.4 t + 78.3 sin(wt - 0.9)  
 periode: 6 ben(t)= 3587.7 + 8.5 t + 29.6 sin(wt - 0.8)  
 periode: 7 ben(t)= 3630.5 + 7.9 t + 37.1 sin(wt + 1.2)  
 periode: 8 ben(t)= 3595.7 + 8.5 t + 84.8 sin(wt - 0.4)  
 periode: 9 ben(t)= 3618.0 + 8.3 t +125.1 sin(wt - 0.5)  
 periode: 10 ben(t)= 3811.3 + 5.7 t +156.9 sin(wt + 1.2)  
 periode: 11 ben(t)= 4009.0 + 2.9 t +184.1 sin(wt - 0.9)  
 periode: 12 ben(t)= 4031.9 + 2.4 t +192.0 sin(wt - 0.5)  
 periode: 13 ben(t)= 3931.0 + 3.7 t +184.3 sin(wt - 0.6)  
 periode: 14 ben(t)= 3787.8 + 5.5 t +169.0 sin(wt - 1.3)  
 periode: 15 ben(t)= 3634.8 + 7.6 t +154.5 sin(wt + 0.9)  
 periode: 16 ben(t)= 3479.6 + 9.8 t +145.3 sin(wt - 0.4)  
 periode: 17 ben(t)= 3322.6 +11.9 t +141.8 sin(wt + 1.2)  
 periode: 18 ben(t)= 3162.8 +14.1 t +142.9 sin(wt - 0.5)  
 periode: 19 ben(t)= 2999.2 +16.4 t +147.4 sin(wt + 0.8)  
 periode: 20 ben(t)= 2831.1 +18.6 t +154.5 sin(wt - 1.2)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.01
	0.10	0.79	0.00	0.66	0.00	2.80	3.07	6.66	7.02	12.13	12.75
3	367.81	370.38	367.45	370.48	378.52	376.72	380.46	384.39	389.31	403.48	385.12
	389.64	384.95	375.02	377.80	345.03	382.07	386.26	389.10	374.03	380.47	394.06
2	543.74	546.77	526.28	529.29	532.28	533.01	530.96	532.33	533.40	539.28	533.48
	532.43	510.72	513.14	513.28	523.90	515.86	527.01	529.03	527.37	534.84	539.88
1	727.08	666.80	672.65	682.02	689.89	730.12	745.78	796.93	775.95	768.98	653.16
	678.31	697.29	687.61	711.56	679.43	748.84	688.26	734.34	738.00	755.91	742.16
-1	1742.67	1710.20	1943.57	1775.91	1956.90	1961.42	1895.17	2028.62	2005.13	1917.42	1620.03
	1570.38	1982.73	1707.93	1962.67	1883.49	1892.58	2014.98	2021.63	1932.00	1900.50	1903.81
-2	653.83	642.84	689.61	696.72	811.42	787.08	741.92	727.32	703.80	707.75	623.70
	685.67	732.06	656.67	742.00	752.30	724.17	772.88	734.20	736.33	721.00	732.74
totaal	4035.13	3936.98	4199.56	4054.41	4369.00	4388.35	4294.28	4469.58	4407.60	4337.35	3815.51
	3856.53	4308.53	3940.38	4307.96	4184.15	4266.33	4392.47	4414.96	4314.76	4304.85	4325.41

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4500.dat  
 uitvoerfiles:i:\scratch\boschloo\4500.uit,i:\scratch\boschloo\4500.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -145.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3672.5 +13.9 t  
 periode: 2 ben(t)= 3673.1 +14.0 t  
 periode: 3 ben(t)= 3672.5 +13.9 t + 12.8 sin(wt - 0.4)  
 periode: 4 ben(t)= 3669.8 +13.9 t + 59.8 sin(wt + 0.5)  
 periode: 5 ben(t)= 3692.8 +13.6 t + 52.6 sin(wt + 0.6)  
 periode: 6 ben(t)= 3665.7 +14.0 t + 23.3 sin(wt - 1.4)  
 periode: 7 ben(t)= 3682.7 +13.7 t + 34.7 sin(wt + 0.9)  
 periode: 8 ben(t)= 3615.8 +14.7 t + 74.4 sin(wt - 0.8)  
 periode: 9 ben(t)= 3689.1 +13.7 t + 88.7 sin(wt - 1.1)  
 periode: 10 ben(t)= 3913.3 +10.7 t +112.0 sin(wt + 0.5)  
 periode: 11 ben(t)= 4080.0 + 8.4 t +124.2 sin(wt + 1.4)  
 periode: 12 ben(t)= 4071.5 + 8.6 t +120.7 sin(wt + 1.6)  
 periode: 13 ben(t)= 3971.9 +10.0 t +117.7 sin(wt + 1.2)  
 periode: 14 ben(t)= 3851.4 +11.7 t +116.9 sin(wt + 0.5)  
 periode: 15 ben(t)= 3731.6 +13.3 t +115.5 sin(wt - 0.5)  
 periode: 16 ben(t)= 3616.3 +14.8 t +113.8 sin(wt + 1.5)  
 periode: 17 ben(t)= 3505.0 +16.3 t +112.9 sin(wt + 0.1)  
 periode: 18 ben(t)= 3396.2 +17.7 t +113.2 sin(wt - 1.5)  
 periode: 19 ben(t)= 3288.5 +19.1 t +115.0 sin(wt - 0.1)  
 periode: 20 ben(t)= 3180.6 +20.6 t +118.2 sin(wt + 1.1)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	110.46	109.65	105.70	105.97	114.79	112.23	110.28	117.25	124.16	122.05	131.00	132.62	134.66	137.75	142.25	142.25	153.94	161.25	182.43	173.92	179.15	173.52
3	390.51	395.64	398.05	396.31	398.48	398.80	399.62	401.19	405.23	408.53	412.58	413.59	410.30	408.42	406.30	406.30	413.73	409.34	409.57	408.76	418.36	416.10
2	602.90	606.29	606.31	587.10	584.87	577.16	579.28	583.80	587.28	591.09	591.91	598.64	569.27	569.98	579.24	579.24	586.56	585.44	587.35	591.17	592.50	595.94
1	902.21	864.52	849.69	791.77	820.81	816.87	876.72	883.68	895.75	902.13	867.86	860.89	824.64	826.78	900.10	858.16	864.59	854.27	802.16	869.17	868.04	901.01
-1	1976.78	1810.82	1835.03	1767.58	2005.33	2070.17	1992.75	2045.99	2129.27	2169.94	2033.75	1924.51	2091.13	2016.93	1974.90	1921.83	1982.24	2013.73	1978.01	2057.96	1904.58	2061.06
-2	652.97	625.65	653.20	629.36	780.02	761.40	792.95	700.80	743.33	818.34	661.13	705.77	697.75	683.67	750.87	777.67	749.86	768.17	779.37	794.61	735.67	768.81
totaal	4635.83	4412.58	4447.98	4278.09	4704.30	4736.65	4751.60	4732.71	4885.03	5012.08	4698.23	4636.03	4727.75	4643.53	4753.65	4685.45	4750.93	4792.20	4738.89	4895.59	4698.30	4916.43

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4525.dat  
 uitvoerfiles:i:\scratch\boschloo\4525.uit,i:\scratch\boschloo\4525.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -141.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3543.3 +11.8 t  
 periode: 2 ben(t)= 3543.5 +11.8 t  
 periode: 3 ben(t)= 3536.3 +11.8 t + 28.7 sin(wt - 0.9)  
 periode: 4 ben(t)= 3544.7 +11.7 t + 22.9 sin(wt - 0.9)  
 periode: 5 ben(t)= 3534.6 +11.8 t + 50.1 sin(wt - 1.2)  
 periode: 6 ben(t)= 3532.6 +11.9 t + 15.0 sin(wt - 0.4)  
 periode: 7 ben(t)= 3552.0 +11.6 t + 37.2 sin(wt + 0.8)  
 periode: 8 ben(t)= 3539.2 +11.8 t + 28.1 sin(wt - 0.5)  
 periode: 9 ben(t)= 3545.5 +11.7 t + 15.5 sin(wt + 1.4)  
 periode: 10 ben(t)= 3607.0 +10.9 t + 36.5 sin(wt - 0.3)  
 periode: 11 ben(t)= 3673.3 +10.0 t + 55.2 sin(wt + 0.7)  
 periode: 12 ben(t)= 3688.3 + 9.9 t + 68.0 sin(wt + 0.9)  
 periode: 13 ben(t)= 3664.6 +10.3 t + 75.4 sin(wt + 0.7)  
 periode: 14 ben(t)= 3623.6 +10.9 t + 76.4 sin(wt + 0.1)  
 periode: 15 ben(t)= 3575.4 +11.5 t + 73.4 sin(wt - 0.8)  
 periode: 16 ben(t)= 3524.0 +12.2 t + 69.6 sin(wt + 1.2)  
 periode: 17 ben(t)= 3471.2 +12.9 t + 66.6 sin(wt - 0.2)  
 periode: 18 ben(t)= 3417.2 +13.6 t + 64.9 sin(wt + 1.4)  
 periode: 19 ben(t)= 3362.0 +14.3 t + 64.6 sin(wt - 0.3)  
 periode: 20 ben(t)= 3305.5 +15.0 t + 65.3 sin(wt + 1.0)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	118.30	119.83	107.08	122.06	129.39	120.32	124.96	123.96	124.74	122.94	128.31	127.60	127.16	124.14	122.21	139.92	135.04	134.81	151.45	144.37	145.25	150.06
3	312.60	315.22	319.15	322.18	327.18	324.77	327.50	330.46	335.97	334.89	341.24	344.49	346.46	344.58	344.56	357.65	356.41	358.48	357.64	349.30	343.06	342.22
2	502.76	509.05	509.42	508.34	511.83	505.33	507.17	510.50	507.06	508.44	514.51	515.92	510.31	503.30	515.52	534.95	520.16	519.50	509.13	484.74	478.82	483.41
1	823.41	839.22	822.03	797.39	800.43	790.62	819.14	821.55	813.16	836.58	810.74	852.65	819.86	830.29	830.85	845.09	817.13	805.24	791.77	753.88	738.51	825.01
-1	1815.13	1905.37	1874.60	1793.00	1801.17	1839.01	2085.98	1889.47	1932.87	2065.89	1930.64	2048.67	1971.67	2041.81	1878.00	1834.30	1930.00	1793.00	1894.81	1931.67	2106.71	2028.50
-2	685.08	658.96	654.56	631.80	710.33	673.82	764.25	713.64	652.18	734.66	679.36	661.00	630.50	639.76	707.00	743.00	739.44	747.00	757.48	794.33	783.17	740.43
totaal	4257.28	4347.66	4286.85	4174.76	4280.33	4253.88	4628.99	4389.58	4365.99	4603.41	4404.79	4550.32	4405.95	4483.90	4398.14	4454.92	4498.18	4358.03	4462.28	4458.30	4595.51	4569.63





source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4575.dat  
 uitvoerfiles:i:\scratch\boschloo\4575.uit,i:\scratch\boschloo\4575.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -159.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5146.9 -10.8 t  
 periode: 2 ben(t)= 5147.9 -10.6 t  
 periode: 3 ben(t)= 5146.5 -10.8 t + 20.2 sin(wt - 0.5)  
 periode: 4 ben(t)= 5143.1 -10.8 t + 67.3 sin(wt + 0.7)  
 periode: 5 ben(t)= 5135.2 -10.7 t + 64.9 sin(wt - 1.2)  
 periode: 6 ben(t)= 5097.3 -10.2 t + 49.3 sin(wt + 0.1)  
 periode: 7 ben(t)= 5020.5 - 9.2 t + 89.2 sin(wt - 0.2)  
 periode: 8 ben(t)= 4934.6 - 8.0 t +112.7 sin(wt + 1.3)  
 periode: 9 ben(t)= 5153.9 -11.0 t + 99.2 sin(wt + 1.0)  
 periode: 10 ben(t)= 5219.1 -11.8 t + 61.1 sin(wt - 0.6)  
 periode: 11 ben(t)= 5038.6 - 9.4 t + 48.6 sin(wt - 0.9)  
 periode: 12 ben(t)= 4876.2 - 7.2 t + 79.8 sin(wt - 1.3)  
 periode: 13 ben(t)= 4850.0 - 6.9 t +110.6 sin(wt + 1.4)  
 periode: 14 ben(t)= 4925.7 - 8.0 t +139.3 sin(wt + 0.6)  
 periode: 15 ben(t)= 5063.0 -10.0 t +162.4 sin(wt - 0.4)  
 periode: 16 ben(t)= 5238.6 -12.4 t +180.1 sin(wt + 1.5)  
 periode: 17 ben(t)= 5440.4 -15.1 t +195.0 sin(wt + 0.1)  
 periode: 18 ben(t)= 5661.6 -18.0 t +209.3 sin(wt - 1.5)  
 periode: 19 ben(t)= 5898.9 -21.1 t +224.3 sin(wt - 0.1)  
 periode: 20 ben(t)= 6150.5 -24.5 t +240.6 sin(wt + 1.1)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	
4	193.87	199.63	145.15	97.87	97.46	99.82	97.57	99.57	100.88	96.25	95.52	97.23	128.32	124.91	114.94	124.75	121.37	130.61	138.40	142.35	140.37	138.92	138.92
3	374.10	377.91	331.09	286.35	283.43	286.15	280.12	280.78	280.51	279.77	288.73	292.71	319.70	312.53	314.08	310.91	311.88	319.21	311.46	318.52	314.83	316.65	316.65
2	467.31	475.14	429.78	386.13	386.36	385.98	387.32	394.20	401.72	404.41	414.55	405.35	408.89	405.30	417.98	422.50	422.76	423.60	414.13	416.71	406.28	409.71	409.71
1	844.32	835.51	811.59	746.69	733.47	709.04	708.92	725.62	715.09	706.37	705.65	710.18	713.03	755.53	714.53	782.75	794.35	781.17	784.59	714.96	677.41	737.05	737.05
-1	2309.33	2041.91	2152.28	1978.11	2030.50	2005.65	2066.24	2015.19	2000.92	2013.88	2027.08	2012.64	2030.04	2049.31	2038.75	2064.83	2108.58	2166.00	1913.67	1932.60	1890.10	1958.56	1958.56
-2	791.33	682.93	746.61	703.29	781.50	746.15	717.76	701.26	709.58	783.01	644.94	677.95	622.52	632.62	664.33	669.00	658.83	701.50	705.83	798.50	807.00	733.54	733.54
totaal	4980.27	4613.02	4616.48	4198.43	4312.71	4232.80	4257.94	4216.63	4208.70	4283.69	4176.47	4196.06	4222.50	4280.20	4264.61	4374.75	4417.78	4522.10	4268.08	4323.63	4235.99	4294.43	4294.43

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4600.dat  
 uitvoerfiles:i:\scratch\boschloo\4600.uit,i:\scratch\boschloo\4600.prn  
 i:\scratch\boschloo\fout.prn

landgrens: -215.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:vrij  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 2606.7 +34.1 t  
 periode: 2 ben(t)= 2605.9 +34.0 t  
 periode: 3 ben(t)= 2629.0 +33.8 t + 45.5 sin(wt + 0.8)  
 periode: 4 ben(t)= 2606.8 +34.1 t + 23.7 sin(wt + 0.0)  
 periode: 5 ben(t)= 2591.8 +34.3 t + 37.9 sin(wt + 0.6)  
 periode: 6 ben(t)= 2614.3 +34.0 t + 8.7 sin(wt + 1.0)  
 periode: 7 ben(t)= 2313.2 +38.1 t +161.5 sin(wt - 1.0)  
 periode: 8 ben(t)= 2246.8 +38.9 t +197.2 sin(wt + 0.9)  
 periode: 9 ben(t)= 2616.3 +33.8 t +166.9 sin(wt + 0.9)  
 periode: 10 ben(t)= 2764.4 +31.9 t +106.0 sin(wt - 0.5)  
 periode: 11 ben(t)= 2573.0 +34.6 t + 65.4 sin(wt - 0.3)  
 periode: 12 ben(t)= 2371.5 +37.3 t + 86.1 sin(wt - 0.7)  
 periode: 13 ben(t)= 2323.9 +38.0 t +107.1 sin(wt - 1.2)  
 periode: 14 ben(t)= 2396.1 +37.0 t +122.6 sin(wt + 1.2)  
 periode: 15 ben(t)= 2538.9 +35.0 t +136.9 sin(wt + 0.1)  
 periode: 16 ben(t)= 2724.2 +32.5 t +151.2 sin(wt - 1.1)  
 periode: 17 ben(t)= 2937.8 +29.6 t +166.0 sin(wt + 0.6)  
 periode: 18 ben(t)= 3172.4 +26.4 t +181.6 sin(wt - 1.1)  
 periode: 19 ben(t)= 3424.2 +23.1 t +198.6 sin(wt + 0.3)  
 periode: 20 ben(t)= 3691.4 +19.5 t +217.2 sin(wt + 1.5)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	65.37	67.86	53.64	67.88	52.40	62.02	58.18	83.48	137.62	123.15	112.40	108.34	99.58	115.23	116.07	123.38	136.65	164.16	179.21	183.99	202.17	209.06
3	270.63	279.40	258.35	267.14	241.21	239.75	233.36	273.60	291.22	295.25	312.10	442.83	436.63	448.66	452.37	459.30	467.83	478.91	490.91	495.50	505.51	511.37
2	549.35	552.54	532.27	538.41	510.19	503.55	497.17	536.14	599.75	603.96	616.28	658.82	655.28	658.77	672.79	687.77	693.33	692.79	691.24	694.09	699.66	708.50
1	895.42	917.85	891.05	943.80	899.05	871.13	866.00	946.59	997.15	1007.54	998.94	1041.41	960.69	1020.99	1047.49	1089.95	1066.34	1093.97	1073.50	1015.48	1044.83	1053.21
-1	2491.77	2301.47	2517.85	2294.11	2245.42	2151.31	2267.25	2356.67	2302.08	2349.85	2312.40	2348.20	2159.57	2240.25	2261.00	2397.96	2356.90	2522.50	2296.44	2185.55	2105.25	2097.57
-2	867.92	795.37	809.93	745.68	746.03	745.14	807.08	740.40	755.11	812.45	750.58	760.80	682.53	675.61	668.25	700.00	689.00	735.17	762.50	820.64	848.00	807.78
totaal	5140.46	4914.48	5063.10	4857.02	4694.30	4572.90	4729.04	4936.88	5082.94	5192.20	5102.69	5360.40	4994.28	5159.52	5217.98	5458.36	5410.05	5687.50	5493.80	5395.24	5405.43	5387.49

\* Regressie-functies behorend bij de berekeningen met opgelegde trend

\* Kuberingswaarden per laag met dikte 5m en van het totale profiel

voor de raaien 30.25 tot en met 46.00



source program:SIRENE  
 stuurprogramma:a:\stuur\stuur\stu  
 sourcefile:b:\invoer\r3050.dat  
 uitvoerfiles:i:\scratch\boschloo\3050t.uit,i:\scratch\boschloo\3050t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -335.00  
 zeegrens: 660.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-13.81  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4076.9 -13.8 t  
 periode: 2 ben(t)= 4032.5 -13.8 t  
 periode: 3 ben(t)= 4074.8 -13.8 t +56.7 sin(wt - 1.1)  
 periode: 4 ben(t)= 4072.0 -13.8 t +82.0 sin(wt + 0.4)  
 periode: 5 ben(t)= 4070.7 -13.8 t +91.5 sin(wt - 1.3)  
 periode: 6 ben(t)= 4071.4 -13.8 t +113.9 sin(wt - 0.1)  
 periode: 7 ben(t)= 4071.9 -13.8 t +112.1 sin(wt + 0.9)  
 periode: 8 ben(t)= 4076.6 -13.8 t +22.6 sin(wt + 1.0)  
 periode: 9 ben(t)= 4062.9 -13.8 t +107.9 sin(wt - 0.1)  
 periode: 10 ben(t)= 4065.9 -13.8 t +129.9 sin(wt - 1.5)  
 periode: 11 ben(t)= 4076.9 -13.8 t +125.5 sin(wt - 0.7)  
 periode: 12 ben(t)= 4081.5 -13.8 t +105.9 sin(wt - 0.8)  
 periode: 13 ben(t)= 4073.9 -13.8 t +103.7 sin(wt + 1.5)  
 periode: 14 ben(t)= 4059.7 -13.8 t +138.1 sin(wt + 0.4)  
 periode: 15 ben(t)= 4047.5 -13.8 t +175.9 sin(wt - 0.7)  
 periode: 16 ben(t)= 4041.2 -13.8 t +204.0 sin(wt + 1.2)  
 periode: 17 ben(t)= 4040.3 -13.8 t +224.4 sin(wt - 0.2)  
 periode: 18 ben(t)= 4043.5 -13.8 t +240.6 sin(wt + 1.3)  
 periode: 19 ben(t)= 4049.4 -13.8 t +255.5 sin(wt - 0.5)  
 periode: 20 ben(t)= 4057.2 -13.8 t +270.4 sin(wt + 0.8)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	
3	31.40	42.09	38.38	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	130.27	139.02	120.77	79.93	44.17	27.86	23.66	0.00	0.00	1.89	0.00	0.00	5.27	23.16	43.82	55.50	66.61	86.36	112.51	124.11	160.80	169.55	0.00
1	623.35	583.47	530.90	508.90	494.13	503.42	460.26	443.30	441.00	443.59	463.94	529.12	485.30	512.29	556.79	554.18	571.10	621.05	579.09	573.80	601.87	616.21	0.00
-1	2107.73	1930.79	1787.64	1713.27	1723.88	1715.25	1734.91	1822.66	1565.03	1787.47	1600.56	1755.67	1709.94	1987.18	1759.17	1732.40	1699.34	1750.67	1752.26	1797.63	1718.12	1900.85	0.00
-2	828.17	773.33	693.69	676.39	687.55	683.75	688.42	724.51	623.94	651.63	635.15	744.33	637.75	655.00	595.31	596.86	634.08	652.30	660.31	620.91	637.56	672.71	0.00
totaal	3720.93	3468.70	3171.39	2982.32	2949.73	2930.27	2907.25	2990.47	2629.97	2884.58	2699.65	3029.12	2838.26	3177.63	2955.09	2938.94	2971.13	3110.38	3104.17	3116.45	3118.35	3359.32	0.00

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3075.dat
uitvoerfiles:i:\scratch\boschloo\3075t.uit,i:\scratch\boschloo\3075t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -337.00
zeegrens: 660.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-13.49
amplitude:vrij
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4544.6  -13.5 t
periode: 2  ben(t)= 4533.6  -13.5 t
periode: 3  ben(t)= 4544.4  -13.5 t  +27.5 sin(wt + 0.9)
periode: 4  ben(t)= 4544.1  -13.5 t  +36.0 sin(wt - 1.0)
periode: 5  ben(t)= 4539.4  -13.5 t  +78.3 sin(wt - 1.4)
periode: 6  ben(t)= 4546.5  -13.5 t  +27.9 sin(wt - 1.6)
periode: 7  ben(t)= 4542.8  -13.5 t  +49.9 sin(wt + 1.3)
periode: 8  ben(t)= 4548.2  -13.5 t  +49.8 sin(wt + 0.1)
periode: 9  ben(t)= 4547.3  -13.5 t  +22.9 sin(wt + 0.3)
periode: 10 ben(t)= 4545.7  -13.5 t  +15.7 sin(wt + 1.2)
periode: 11 ben(t)= 4544.6  -13.5 t  +34.6 sin(wt - 1.1)
periode: 12 ben(t)= 4541.4  -13.5 t  +53.2 sin(wt - 0.5)
periode: 13 ben(t)= 4535.6  -13.5 t  +71.4 sin(wt - 0.5)
periode: 14 ben(t)= 4529.9  -13.5 t  +85.8 sin(wt - 1.0)
periode: 15 ben(t)= 4526.6  -13.5 t  +94.6 sin(wt + 1.3)
periode: 16 ben(t)= 4525.9  -13.5 t  +99.4 sin(wt + 0.1)
periode: 17 ben(t)= 4527.1  -13.5 t  +102.4 sin(wt - 1.3)
periode: 18 ben(t)= 4529.4  -13.5 t  +105.2 sin(wt + 0.2)
periode: 19 ben(t)= 4532.6  -13.5 t  +108.4 sin(wt + 1.5)
periode: 20 ben(t)= 4536.3  -13.5 t  +112.2 sin(wt - 0.4)

```

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
3	41.98	47.59	45.63	46.31	54.74	45.33	39.62	39.63	18.05	1.20	1.61	1.16	1.87	1.80	2.75	3.28	2.75	5.01	11.28	7.95	16.25	11.42
2	312.34	316.01	306.90	307.57	310.03	306.62	295.09	288.66	272.83	239.91	203.30	179.03	169.17	179.16	235.89	234.35	235.89	264.34	274.73	252.47	274.47	267.42
1	886.26	840.99	836.06	810.37	783.73	842.02	820.77	824.65	779.61	707.31	692.76	741.36	681.71	718.17	708.06	669.63	708.06	664.63	633.90	597.74	625.84	619.31
-1	1928.00	1857.72	1901.26	1861.67	1837.74	1923.77	1819.06	1843.34	1812.14	1722.33	1821.11	1906.39	1799.90	1768.59	1756.24	1855.47	1880.33	1765.52	1738.56	1816.09	1777.23	1904.64
-2	827.67	668.03	699.22	710.38	739.06	723.83	722.71	728.60	691.28	659.39	668.87	761.42	676.94	654.23	638.71	646.74	635.17	661.60	660.28	661.83	642.24	726.52
totaal	3996.25	3730.35	3789.07	3736.30	3725.30	3841.57	3697.25	3724.87	3573.92	3330.14	3387.65	3589.35	3329.59	3321.96	3341.65	3409.47	3462.20	3361.10	3318.74	3336.09	3336.03	3529.31











source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3200.dat  
 uitvoerfiles:i:\scratch\boschloo\3200t.uit,i:\scratch\boschloo\3200t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -279.00  
 zeegrens: 690.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-11.89  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4444.3 -11.9 t  
 periode: 2 ben(t)= 4437.0 -11.9 t  
 periode: 3 ben(t)= 4443.1 -11.9 t + 36.3 sin(wt - 1.3)  
 periode: 4 ben(t)= 4445.6 -11.9 t + 50.8 sin(wt - 0.4)  
 periode: 5 ben(t)= 4445.8 -11.9 t + 51.3 sin(wt + 1.0)  
 periode: 6 ben(t)= 4436.1 -11.9 t +128.4 sin(wt - 0.4)  
 periode: 7 ben(t)= 4440.7 -11.9 t + 82.2 sin(wt + 0.8)  
 periode: 8 ben(t)= 4445.5 -11.9 t + 84.9 sin(wt + 1.3)  
 periode: 9 ben(t)= 4437.7 -11.9 t +143.2 sin(wt + 1.0)  
 periode: 10 ben(t)= 4437.4 -11.9 t +174.0 sin(wt - 0.2)  
 periode: 11 ben(t)= 4444.3 -11.9 t +165.2 sin(wt + 0.8)  
 periode: 12 ben(t)= 4453.5 -11.9 t +142.0 sin(wt + 1.0)  
 periode: 13 ben(t)= 4459.9 -11.9 t +118.8 sin(wt + 0.7)  
 periode: 14 ben(t)= 4461.1 -11.9 t + 94.8 sin(wt + 0.0)  
 periode: 15 ben(t)= 4458.7 -11.9 t + 72.3 sin(wt - 0.9)  
 periode: 16 ben(t)= 4455.2 -11.9 t + 53.9 sin(wt + 0.9)  
 periode: 17 ben(t)= 4452.0 -11.9 t + 40.0 sin(wt - 0.6)  
 periode: 18 ben(t)= 4449.3 -11.9 t + 29.8 sin(wt + 0.8)  
 periode: 19 ben(t)= 4447.3 -11.9 t + 23.1 sin(wt - 1.2)  
 periode: 20 ben(t)= 4445.9 -11.9 t + 19.8 sin(wt - 0.3)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	
4	20.64	20.24	17.39	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	121.12	121.89	111.70	73.01	37.75	41.61	18.39	19.02	21.40	19.99	26.63	29.29	19.73	31.93	38.47	45.52	46.38	59.85	71.30	79.63	90.37	97.94	
2	304.01	285.43	243.22	198.17	160.53	162.12	176.67	215.20	215.25	234.22	236.98	278.59	253.00	267.08	269.27	271.21	269.53	271.71	275.18	281.00	286.88	291.62	
1	804.27	759.63	730.61	690.53	662.44	691.43	731.11	772.55	751.94	745.11	724.27	691.69	682.71	729.75	722.06	716.94	694.23	684.75	699.26	726.47	700.91	690.87	
-1	1883.25	1787.79	1691.50	1725.91	1749.18	1866.87	1889.74	2041.03	2017.60	1990.84	1870.70	1852.43	1878.31	1824.32	1876.84	1899.25	1778.07	1814.56	2000.57	2038.87	1803.67	1724.00	
-2	754.50	619.16	634.02	656.89	728.17	638.21	693.38	742.72	754.34	735.03	689.27	721.45	684.69	679.53	583.56	628.23	544.27	596.17	629.01	694.47	694.92	645.40	
totaal	3887.79	3594.13	3428.44	3344.54	3338.07	3400.25	3509.29	3790.52	3760.54	3725.19	3547.84	3573.45	3518.45	3532.61	3490.21	3561.15	3332.48	3427.04	3675.32	3820.44	3576.76	3449.83	

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3225.dat
uitvoerfiles:i:\scratch\boschloo\3225t.uit,i:\scratch\boschloo\3225t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -262.00
zeegrens: 720.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-11.57
amplitude:vrij
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4690.5  -11.6 t
periode: 2  ben(t)= 4683.6  -11.6 t
periode: 3  ben(t)= 4690.1  -11.6 t  + 16.0 sin(wt - 1.4)
periode: 4  ben(t)= 4691.7  -11.6 t  + 82.0 sin(wt - 0.6)
periode: 5  ben(t)= 4697.0  -11.6 t  + 89.5 sin(wt - 0.7)
periode: 6  ben(t)= 4691.5  -11.6 t  + 90.0 sin(wt + 0.7)
periode: 7  ben(t)= 4693.5  -11.6 t  + 67.6 sin(wt + 0.5)
periode: 8  ben(t)= 4683.8  -11.6 t  +120.4 sin(wt + 0.4)
periode: 9  ben(t)= 4681.1  -11.6 t  +164.9 sin(wt + 0.9)
periode: 10 ben(t)= 4684.4  -11.6 t  +194.2 sin(wt - 0.1)
periode: 11 ben(t)= 4690.5  -11.6 t  +188.9 sin(wt + 1.0)
periode: 12 ben(t)= 4699.9  -11.6 t  +170.2 sin(wt + 1.2)
periode: 13 ben(t)= 4709.7  -11.6 t  +159.4 sin(wt + 0.8)
periode: 14 ben(t)= 4716.2  -11.6 t  +151.4 sin(wt + 0.1)
periode: 15 ben(t)= 4717.9  -11.6 t  +141.8 sin(wt - 0.9)
periode: 16 ben(t)= 4716.3  -11.6 t  +132.1 sin(wt + 1.0)
periode: 17 ben(t)= 4713.0  -11.6 t  +123.8 sin(wt - 0.4)
periode: 18 ben(t)= 4708.9  -11.6 t  +117.6 sin(wt + 1.1)
periode: 19 ben(t)= 4704.4  -11.6 t  +113.3 sin(wt - 0.7)
periode: 20 ben(t)= 4699.9  -11.6 t  +110.5 sin(wt + 0.5)

```

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	0.00	0.00	0.00	0.00	0.00	0.59	1.94	6.21	6.18	7.09	16.39	18.47	20.99	24.35	20.62	23.52	22.04	30.14	38.70	36.89	36.31	31.80
3	173.98	142.82	134.51	184.86	201.99	213.94	217.63	209.15	193.43	207.45	219.08	214.14	219.82	220.89	212.74	205.61	208.25	193.47	193.34	189.96	188.86	183.29
2	409.28	412.36	413.18	409.44	409.88	385.85	385.61	385.22	374.87	384.74	385.60	394.13	379.19	376.63	358.19	360.32	347.29	335.93	345.58	331.40	322.53	331.58
1	823.16	794.48	775.13	752.22	725.61	708.37	724.90	782.60	767.06	754.44	747.66	770.82	747.12	727.15	653.26	654.43	675.12	728.26	716.24	692.91	656.91	665.92
-1	1891.58	1740.70	1703.69	1786.52	1797.85	1731.68	1729.63	2052.74	2054.58	1926.29	1951.56	1962.16	1931.93	1731.92	1666.47	1738.40	1752.29	2007.57	2083.81	1928.52	1827.55	1658.05
-2	713.58	625.60	649.77	631.18	648.96	648.90	608.06	737.04	754.92	725.58	690.26	696.63	681.66	669.88	578.11	713.55	554.69	609.42	657.31	680.43	667.61	672.70
totaal	4011.59	3715.96	3676.28	3764.22	3784.29	3689.34	3667.76	4172.97	4151.04	4005.58	4010.54	4056.34	3980.70	3750.81	3489.39	3695.83	3559.68	3904.78	4034.97	3860.12	3699.77	3543.34

source program: SIRENE  
 stuurprogramma: a:\stuur\stuural.stu  
 sourcefile: b:\invoer\r3250.dat  
 uitvoerfiles: i:\scratch\boschloo\3250t.uit, i:\scratch\boschloo\3250t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -288.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend: -11.25  
 amplitude: vrij  
 fase/jr opgang: vrij

periode: 1 ben(t)= 4940.8 -11.3 t  
 periode: 2 ben(t)= 4930.5 -11.3 t  
 periode: 3 ben(t)= 4940.3 -11.3 t + 17.9 sin(wt + 0.4)  
 periode: 4 ben(t)= 4938.7 -11.3 t + 33.3 sin(wt + 0.9)  
 periode: 5 ben(t)= 4943.0 -11.3 t + 51.4 sin(wt + 0.0)  
 periode: 6 ben(t)= 4940.9 -11.3 t + 36.5 sin(wt + 0.5)  
 periode: 7 ben(t)= 4941.6 -11.3 t + 51.6 sin(wt - 1.3)  
 periode: 8 ben(t)= 4936.5 -11.3 t + 54.2 sin(wt - 0.0)  
 periode: 9 ben(t)= 4932.2 -11.3 t + 66.0 sin(wt - 0.1)  
 periode: 10 ben(t)= 4935.3 -11.3 t + 63.6 sin(wt - 1.2)  
 periode: 11 ben(t)= 4940.8 -11.3 t + 58.4 sin(wt + 0.0)  
 periode: 12 ben(t)= 4944.9 -11.3 t + 49.5 sin(wt + 0.6)  
 periode: 13 ben(t)= 4945.5 -11.3 t + 36.7 sin(wt + 0.7)  
 periode: 14 ben(t)= 4943.2 -11.3 t + 27.2 sin(wt + 0.7)  
 periode: 15 ben(t)= 4940.3 -11.3 t + 27.0 sin(wt + 0.3)  
 periode: 16 ben(t)= 4938.1 -11.3 t + 32.2 sin(wt - 0.6)  
 periode: 17 ben(t)= 4936.9 -11.3 t + 38.1 sin(wt + 1.3)  
 periode: 18 ben(t)= 4936.7 -11.3 t + 43.5 sin(wt - 0.3)  
 periode: 19 ben(t)= 4937.1 -11.3 t + 48.7 sin(wt + 1.1)  
 periode: 20 ben(t)= 4938.0 -11.3 t + 53.8 sin(wt - 0.8)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	21.63	21.18	23.96	27.56	33.02	32.68	33.81	37.21	36.49	36.29	35.39	37.57	36.07	33.81	33.83	35.99	34.41	35.23	31.36	6.62	9.27	0.00
3	178.30	182.64	183.04	185.40	189.60	190.89	192.21	192.42	187.15	185.97	177.39	178.47	156.62	152.93	148.74	147.00	142.10	138.22	134.50	108.69	109.12	108.63
2	326.69	335.74	339.33	344.56	352.62	346.54	342.63	323.08	320.14	325.50	307.54	309.03	280.66	284.56	284.43	292.74	267.30	266.25	265.02	228.97	240.70	325.95
1	942.99	970.28	975.09	981.51	937.12	915.12	908.50	883.75	907.28	846.79	859.84	888.85	862.29	859.78	843.10	809.68	833.22	820.93	805.27	794.05	835.98	871.42
-1	2139.83	2159.25	2224.67	2053.79	2019.34	2033.76	1801.90	2037.00	2135.53	1978.26	2022.13	1999.33	2004.71	1952.32	1841.20	1893.70	1955.67	1989.33	2161.55	1965.61	1892.30	2075.10
-2	764.17	667.00	707.68	716.51	733.91	724.81	638.60	747.79	736.75	743.23	724.63	705.41	727.00	727.83	663.79	771.25	691.33	651.67	667.71	686.83	728.40	726.55
totaal	4373.61	4336.09	4453.77	4309.32	4265.61	4243.81	3917.66	4221.24	4323.34	4116.04	4126.91	4118.66	4067.35	4011.24	3815.08	3950.36	3924.03	3901.63	4065.40	3790.78	3815.78	4107.65

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3275.dat  
 uitvoerfiles:i:\scratch\boschloo\3275t.uit,i:\scratch\boschloo\3275t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -220.00  
 zeegrens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-10.93  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4635.4 -10.9 t  
 periode: 2 ben(t)= 4634.4 -10.9 t  
 periode: 3 ben(t)= 4634.0 -10.9 t + 29.5 sin(wt - 0.7)  
 periode: 4 ben(t)= 4634.5 -10.9 t + 33.9 sin(wt - 1.2)  
 periode: 5 ben(t)= 4631.4 -10.9 t + 57.9 sin(wt - 1.3)  
 periode: 6 ben(t)= 4633.5 -10.9 t + 64.4 sin(wt + 0.9)  
 periode: 7 ben(t)= 4634.8 -10.9 t + 19.4 sin(wt - 0.1)  
 periode: 8 ben(t)= 4631.8 -10.9 t + 62.6 sin(wt - 1.2)  
 periode: 9 ben(t)= 4627.2 -10.9 t + 93.5 sin(wt - 1.0)  
 periode: 10 ben(t)= 4631.5 -10.9 t + 83.8 sin(wt + 0.9)  
 periode: 11 ben(t)= 4635.4 -10.9 t + 52.2 sin(wt - 1.5)  
 periode: 12 ben(t)= 4632.4 -10.9 t + 43.3 sin(wt + 0.9)  
 periode: 13 ben(t)= 4622.7 -10.9 t + 81.8 sin(wt + 0.2)  
 periode: 14 ben(t)= 4612.1 -10.9 t +116.7 sin(wt - 0.5)  
 periode: 15 ben(t)= 4605.7 -10.9 t +136.9 sin(wt - 1.4)  
 periode: 16 ben(t)= 4604.1 -10.9 t +146.6 sin(wt + 0.5)  
 periode: 17 ben(t)= 4605.9 -10.9 t +151.3 sin(wt - 1.0)  
 periode: 18 ben(t)= 4609.9 -10.9 t +154.4 sin(wt + 0.5)  
 periode: 19 ben(t)= 4615.2 -10.9 t +157.3 sin(wt - 1.3)  
 periode: 20 ben(t)= 4621.4 -10.9 t +160.8 sin(wt - 0.1)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	44.39	43.73	41.89	44.74	44.23	44.16	45.01	46.22	46.03	35.24	51.70	46.26	47.80	47.80	37.65	45.43	47.04	46.29	46.15	35.73	37.65	37.50
3	271.73	272.43	273.28	278.36	282.17	283.16	283.66	283.25	282.73	279.70	280.61	273.27	249.78	249.78	239.35	248.65	255.68	250.03	251.03	226.70	227.12	226.49
2	433.71	433.78	443.37	448.56	456.53	463.52	453.60	445.61	434.36	432.09	418.28	415.81	388.57	388.57	385.99	397.77	403.48	396.12	394.04	365.38	370.92	372.04
1	713.60	728.02	713.86	754.17	737.64	735.74	671.79	667.31	653.25	618.93	632.76	617.16	607.15	607.15	606.48	612.23	666.69	614.12	582.98	572.69	638.24	633.84
-1	1912.73	2091.54	2066.12	1994.45	1812.53	1836.04	1711.73	1756.01	1713.90	1623.66	1760.25	1649.41	1821.27	1675.56	1686.90	1780.90	1760.75	1610.66	1759.90	1764.17	1858.27	1890.51
-2	692.67	648.38	669.03	684.00	682.88	665.30	595.47	645.26	617.03	596.30	632.15	606.49	687.58	585.95	611.74	751.29	566.27	626.40	639.00	666.57	695.37	698.89
totaal	4068.83	4217.88	4207.55	4204.27	4015.98	4027.90	3761.25	3843.66	3747.31	3585.92	3775.75	3608.40	3802.15	3554.80	3568.11	3836.26	3699.90	3543.63	3673.10	3631.24	3827.58	3859.27

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3300.dat  
 uitvoerfiles:i:\scratch\boschloo\3300t.uit,i:\scratch\boschloo\3300t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -128.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-10.61  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3078.1 -10.6 t  
 periode: 2 ben(t)= 3069.4 -10.6 t  
 periode: 3 ben(t)= 3080.2 -10.6 t + 53.6 sin(wt - 1.1)  
 periode: 4 ben(t)= 3078.0 -10.6 t + 72.5 sin(wt - 0.8)  
 periode: 5 ben(t)= 3075.2 -10.6 t + 53.3 sin(wt - 0.2)  
 periode: 6 ben(t)= 3083.3 -10.6 t + 71.7 sin(wt - 0.6)  
 periode: 7 ben(t)= 3080.6 -10.6 t + 60.4 sin(wt + 0.2)  
 periode: 8 ben(t)= 3075.8 -10.6 t + 58.1 sin(wt - 1.5)  
 periode: 9 ben(t)= 3079.9 -10.6 t + 54.5 sin(wt + 1.1)  
 periode: 10 ben(t)= 3082.2 -10.6 t + 66.2 sin(wt - 0.5)  
 periode: 11 ben(t)= 3078.1 -10.6 t + 83.5 sin(wt + 0.3)  
 periode: 12 ben(t)= 3068.8 -10.6 t + 107.3 sin(wt + 0.4)  
 periode: 13 ben(t)= 3058.6 -10.6 t + 125.2 sin(wt + 0.2)  
 periode: 14 ben(t)= 3052.3 -10.6 t + 129.6 sin(wt - 0.4)  
 periode: 15 ben(t)= 3051.1 -10.6 t + 124.3 sin(wt - 1.4)  
 periode: 16 ben(t)= 3053.2 -10.6 t + 115.8 sin(wt + 0.5)  
 periode: 17 ben(t)= 3056.9 -10.6 t + 107.8 sin(wt - 0.9)  
 periode: 18 ben(t)= 3061.1 -10.6 t + 101.5 sin(wt + 0.6)  
 periode: 19 ben(t)= 3065.5 -10.6 t + 97.0 sin(wt - 1.2)  
 periode: 20 ben(t)= 3069.8 -10.6 t + 94.1 sin(wt + 0.0)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
3	28.32	27.42	25.20	31.36	31.40	31.63	32.26	31.07	31.05	31.69	15.39	14.91	8.57	8.59	9.05	9.77	10.85	13.16	13.34	8.78	8.90	8.29
2	118.65	118.50	120.67	123.13	124.45	126.02	126.68	128.19	119.19	118.02	79.62	79.87	54.39	55.29	60.85	63.55	71.94	71.26	70.23	56.83	55.03	54.18
1	281.20	282.61	281.39	265.10	312.50	286.60	248.97	271.95	213.69	207.77	187.53	234.34	195.33	202.08	232.95	275.17	269.33	208.42	180.97	176.17	162.26	132.02
-1	1437.05	1395.24	1466.66	1435.29	1635.88	1485.50	1190.59	1246.47	1222.06	1180.63	1319.37	1374.21	1333.33	1158.33	1351.57	1375.70	1309.25	1450.64	1228.96	1418.82	1392.30	1299.17
-2	605.20	589.90	622.78	615.94	654.00	640.75	607.87	653.78	596.96	547.14	579.23	582.29	626.63	545.04	541.90	647.00	511.14	577.02	553.32	593.70	601.28	590.00
totaal	2470.42	2413.67	2516.70	2470.82	2758.22	2570.50	2206.37	2331.46	2182.94	2085.25	2181.14	2285.63	2218.26	1969.33	2196.32	2371.19	2172.51	2320.50	2046.82	2254.30	2219.78	2083.66

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3325.dat
uitvoerfiles:i:\scratch\boschloo\3325t.uit,i:\scratch\boschloo\3325t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -132.00
zeegrens: 720.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-10.29
amplitude:vrij
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3019.8  -10.3 t
periode: 2  ben(t)= 3026.0  -10.3 t
periode: 3  ben(t)= 3020.5  -10.3 t + 17.8 sin(wt - 1.1)
periode: 4  ben(t)= 3017.6  -10.3 t + 40.6 sin(wt + 1.3)
periode: 5  ben(t)= 3019.7  -10.3 t + 7.4 sin(wt + 0.9)
periode: 6  ben(t)= 3018.4  -10.3 t + 92.1 sin(wt + 0.3)
periode: 7  ben(t)= 3017.9  -10.3 t +101.7 sin(wt - 1.3)
periode: 8  ben(t)= 3024.4  -10.3 t + 66.3 sin(wt + 0.2)
periode: 9  ben(t)= 3026.0  -10.3 t + 47.6 sin(wt - 0.2)
periode: 10 ben(t)= 3023.2  -10.3 t + 46.7 sin(wt + 1.3)
periode: 11 ben(t)= 3019.8  -10.3 t + 52.4 sin(wt - 0.9)
periode: 12 ben(t)= 3016.7  -10.3 t + 52.2 sin(wt - 0.6)
periode: 13 ben(t)= 3014.5  -10.3 t + 48.5 sin(wt - 0.7)
periode: 14 ben(t)= 3013.8  -10.3 t + 43.8 sin(wt - 1.3)
periode: 15 ben(t)= 3014.1  -10.3 t + 39.5 sin(wt + 0.9)
periode: 16 ben(t)= 3014.9  -10.3 t + 36.3 sin(wt - 0.3)
periode: 17 ben(t)= 3015.8  -10.3 t + 34.3 sin(wt + 1.4)
periode: 18 ben(t)= 3016.7  -10.3 t + 33.2 sin(wt - 0.3)
periode: 19 ben(t)= 3017.6  -10.3 t + 32.9 sin(wt + 1.0)
periode: 20 ben(t)= 3018.4  -10.3 t + 33.2 sin(wt - 0.9)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
3	0.00	0.00	0.17	0.00	0.00	0.00	0.75	2.89	7.08	7.58	2.97
	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	125.96	133.64	131.15	107.12	96.26	99.76	101.89	108.15	106.78	106.78	73.46
	63.19	47.15	44.61	53.79	60.45	59.31	66.25	69.09	58.63	46.88	46.29
1	321.69	299.07	276.34	225.40	267.20	286.03	305.33	318.74	251.79	247.24	166.51
	262.08	224.60	236.03	259.05	305.16	271.32	227.35	224.67	211.88	191.36	189.99
-1	1313.50	1282.53	1196.12	1105.79	1424.61	1450.90	1344.57	1338.19	1406.35	1152.40	1235.34
	1324.58	1423.00	1378.75	1285.88	1292.71	1221.00	1310.72	1403.38	1390.33	1332.55	1309.67
-2	628.00	623.42	642.44	618.46	627.89	640.93	601.83	606.81	600.48	572.13	571.42
	582.54	623.21	611.42	550.38	594.67	549.29	584.43	605.48	582.77	623.70	605.67
totaal	2389.16	2338.66	2246.22	2056.77	2415.96	2477.62	2354.37	2374.77	2372.49	2086.14	2049.71
	2232.61	2317.96	2270.81	2149.08	2252.99	2100.92	2188.76	2302.62	2243.61	2194.49	2151.61



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3350.dat  
 uitvoerfiles:i:\scratch\boschloo\3350t.uit,i:\scratch\boschloo\3350t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -200.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-9.97  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4324.7 -10.0 t  
 periode: 2 ben(t)= 4329.9 -10.0 t  
 periode: 3 ben(t)= 4325.7 -10.0 t + 35.8 sin(wt + 0.4)  
 periode: 4 ben(t)= 4322.8 -10.0 t + 29.9 sin(wt + 1.1)  
 periode: 5 ben(t)= 4324.0 -10.0 t + 59.5 sin(wt + 0.8)  
 periode: 6 ben(t)= 4321.9 -10.0 t + 91.9 sin(wt + 0.1)  
 periode: 7 ben(t)= 4322.2 -10.0 t + 57.2 sin(wt + 0.3)  
 periode: 8 ben(t)= 4328.4 -10.0 t +101.8 sin(wt - 1.5)  
 periode: 9 ben(t)= 4326.0 -10.0 t +106.7 sin(wt + 1.5)  
 periode: 10 ben(t)= 4323.0 -10.0 t + 94.9 sin(wt + 0.1)  
 periode: 11 ben(t)= 4324.7 -10.0 t + 71.3 sin(wt + 0.7)  
 periode: 12 ben(t)= 4330.7 -10.0 t + 71.5 sin(wt + 0.5)  
 periode: 13 ben(t)= 4338.1 -10.0 t + 86.1 sin(wt + 0.0)  
 periode: 14 ben(t)= 4342.9 -10.0 t + 94.4 sin(wt - 0.7)  
 periode: 15 ben(t)= 4344.1 -10.0 t + 95.7 sin(wt + 1.4)  
 periode: 16 ben(t)= 4342.8 -10.0 t + 94.7 sin(wt + 0.1)  
 periode: 17 ben(t)= 4340.2 -10.0 t + 94.3 sin(wt - 1.4)  
 periode: 18 ben(t)= 4337.2 -10.0 t + 95.6 sin(wt + 0.0)  
 periode: 19 ben(t)= 4334.0 -10.0 t + 98.8 sin(wt + 1.3)  
 periode: 20 ben(t)= 4330.9 -10.0 t +103.6 sin(wt - 0.7)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	15.59	16.76	14.03	10.89	2.14	6.99	7.36	7.84	9.60	8.78	9.09	12.12	10.20	8.63	10.33	12.67	13.62	12.05	9.73	1.86	2.48	1.59
3	276.09	283.22	261.44	241.00	213.20	215.97	212.83	217.62	223.21	213.21	215.58	228.80	225.63	216.52	216.80	225.44	227.43	226.08	208.94	181.31	191.39	173.01
2	530.73	523.55	473.09	454.10	439.56	426.36	425.66	431.54	434.60	440.03	436.50	433.61	417.51	418.25	427.17	435.72	429.96	420.39	405.08	385.23	381.83	378.42
1	676.16	615.49	583.78	550.72	531.43	552.03	568.74	613.87	601.24	570.48	548.20	544.14	586.87	632.93	591.45	600.61	563.33	492.35	527.92	516.96	510.11	508.25
-1	1640.25	1592.38	1646.17	1416.33	1477.04	1627.92	1671.27	1896.80	1753.66	1799.70	1660.27	1719.09	1784.40	1733.37	1623.37	1593.43	1723.32	1654.39	1730.57	1727.29	1688.24	1621.77
-2	699.50	679.50	692.72	623.67	741.57	731.33	686.92	698.53	654.44	675.31	713.30	694.10	667.10	658.74	589.53	640.87	693.43	728.11	650.45	661.60	653.05	648.73
totaal	3838.32	3710.90	3671.24	3296.71	3404.95	3560.60	3572.78	3866.21	3676.75	3707.51	3582.94	3631.85	3691.70	3668.44	3458.65	3508.75	3651.08	3533.36	3532.70	3474.25	3427.08	3331.77

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3375.dat
uitvoerfiles:i:\scratch\boschloo\3375t.uit,i:\scratch\boschloo\3375t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -220.00
zeegrens: 720.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-9.65
amplitude:vrij
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4512.5 - 9.7 t
periode: 2  ben(t)= 4529.5 - 9.7 t
periode: 3  ben(t)= 4512.1 - 9.7 t + 9.6 sin(wt - 0.9)
periode: 4  ben(t)= 4511.3 - 9.7 t + 23.8 sin(wt + 1.5)
periode: 5  ben(t)= 4517.0 - 9.7 t + 70.4 sin(wt - 0.4)
periode: 6  ben(t)= 4509.5 - 9.7 t + 38.6 sin(wt - 1.1)
periode: 7  ben(t)= 4509.9 - 9.7 t + 96.0 sin(wt - 0.3)
periode: 8  ben(t)= 4518.3 - 9.7 t +111.2 sin(wt - 1.3)
periode: 9  ben(t)= 4517.6 - 9.7 t + 81.9 sin(wt - 1.3)
periode: 10 ben(t)= 4512.6 - 9.7 t + 47.6 sin(wt + 0.3)
periode: 11 ben(t)= 4512.5 - 9.7 t + 38.1 sin(wt + 0.3)
periode: 12 ben(t)= 4518.7 - 9.7 t + 71.0 sin(wt + 0.1)
periode: 13 ben(t)= 4528.0 - 9.7 t +101.5 sin(wt - 0.1)
periode: 14 ben(t)= 4535.1 - 9.7 t +117.6 sin(wt - 0.7)
periode: 15 ben(t)= 4537.8 - 9.7 t +121.9 sin(wt + 1.5)
periode: 16 ben(t)= 4536.9 - 9.7 t +120.8 sin(wt + 0.2)
periode: 17 ben(t)= 4534.1 - 9.7 t +118.5 sin(wt - 1.2)
periode: 18 ben(t)= 4530.2 - 9.7 t +117.0 sin(wt + 0.2)
periode: 19 ben(t)= 4526.0 - 9.7 t +116.9 sin(wt + 1.6)
periode: 20 ben(t)= 4521.5 - 9.7 t +118.3 sin(wt - 0.4)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	16.83	13.40	19.14	24.75	27.48	28.74	21.74	15.23	16.99	20.21	27.45
	31.84	29.30	2.52	1.15	2.45	0.74	3.17	1.60	0.90	4.25	4.10
3	207.78	208.26	210.26	201.92	200.00	194.56	249.19	245.64	250.46	254.51	261.66
	260.51	283.00	264.80	266.88	282.78	277.07	295.32	279.46	237.84	249.56	229.80
2	613.16	602.35	559.49	544.72	533.24	516.62	504.59	496.41	495.83	506.42	511.29
	516.53	495.62	503.30	509.09	518.91	517.43	518.25	490.83	449.45	435.93	437.40
1	739.60	675.71	638.34	656.36	628.97	626.52	613.97	649.73	688.72	654.29	687.35
	649.36	646.42	685.96	678.08	665.30	688.45	616.53	580.71	587.46	560.18	579.82
-1	1660.15	1583.34	1632.26	1642.77	1575.41	1556.45	1549.75	1911.91	1916.79	1813.74	1676.44
	1685.76	1765.03	1788.24	1861.88	1621.15	1748.56	1605.71	1799.48	1621.87	1682.30	1830.27
-2	676.60	670.49	680.34	614.59	708.48	681.05	707.50	706.19	694.58	698.23	608.50
	685.82	659.47	628.23	630.50	658.18	653.39	692.07	677.42	669.13	642.32	683.33
totaal	3914.13	3753.55	3739.83	3685.12	3673.58	3603.95	3646.75	4025.11	4063.38	3947.40	3772.68
	3829.82	3878.85	3873.06	3947.57	3748.78	3885.63	3731.05	3829.50	3566.65	3574.54	3764.73

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3400.dat  
 uitvoerfiles:i:\scratch\boschloo\3400t.uit,i:\scratch\boschloo\3400t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -216.00  
 zeegrens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-9.33  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4235.1 - 9.3 t  
 periode: 2 ben(t)= 4249.2 - 9.3 t  
 periode: 3 ben(t)= 4233.3 - 9.3 t + 42.4 sin(wt - 0.8)  
 periode: 4 ben(t)= 4231.2 - 9.3 t + 79.8 sin(wt + 1.5)  
 periode: 5 ben(t)= 4229.9 - 9.3 t + 71.1 sin(wt - 0.9)  
 periode: 6 ben(t)= 4234.3 - 9.3 t + 40.2 sin(wt + 0.8)  
 periode: 7 ben(t)= 4232.9 - 9.3 t + 70.9 sin(wt - 0.1)  
 periode: 8 ben(t)= 4235.9 - 9.3 t + 34.6 sin(wt + 1.5)  
 periode: 9 ben(t)= 4229.5 - 9.3 t + 46.4 sin(wt + 0.2)  
 periode: 10 ben(t)= 4229.3 - 9.3 t + 67.6 sin(wt - 1.3)  
 periode: 11 ben(t)= 4235.1 - 9.3 t + 79.0 sin(wt - 0.3)  
 periode: 12 ben(t)= 4242.0 - 9.3 t + 80.4 sin(wt + 0.0)  
 periode: 13 ben(t)= 4245.5 - 9.3 t + 69.9 sin(wt - 0.2)  
 periode: 14 ben(t)= 4244.5 - 9.3 t + 53.1 sin(wt - 0.9)  
 periode: 15 ben(t)= 4241.4 - 9.3 t + 38.3 sin(wt + 1.1)  
 periode: 16 ben(t)= 4238.2 - 9.3 t + 30.0 sin(wt - 0.5)  
 periode: 17 ben(t)= 4235.8 - 9.3 t + 28.2 sin(wt + 0.9)  
 periode: 18 ben(t)= 4234.3 - 9.3 t + 30.2 sin(wt - 1.0)  
 periode: 19 ben(t)= 4233.7 - 9.3 t + 33.8 sin(wt + 0.2)  
 periode: 20 ben(t)= 4233.7 - 9.3 t + 38.0 sin(wt + 1.3)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	10.19	21.62	34.66	29.73	31.41	34.14	16.98	3.39	2.01	2.27	1.36
	5.84	5.82	6.67	8.71	11.18	9.65	14.69	19.69	11.70	17.49	18.07
3	206.75	199.55	192.11	186.36	175.74	166.26	156.60	143.50	146.46	144.09	139.25
	158.22	154.78	158.87	172.14	175.11	171.47	182.66	194.50	175.83	188.04	194.20
2	474.98	461.71	450.42	438.30	411.38	388.61	378.95	356.82	354.80	365.99	357.35
	367.97	374.24	374.02	383.45	398.83	395.87	396.23	385.18	373.25	380.01	392.35
1	660.50	663.60	649.14	622.57	587.93	567.87	559.14	559.21	596.39	595.86	590.66
	630.39	614.33	599.60	609.07	635.21	656.24	583.81	538.91	570.65	645.39	642.16
-1	1640.82	1711.68	1562.05	1578.98	1623.60	1597.20	1559.83	1795.67	1768.37	1754.92	1783.64
	1679.59	1934.65	1625.60	1752.63	1796.06	1746.49	1667.56	1663.06	1684.57	1811.75	1796.04
-2	651.18	619.22	543.38	575.19	675.43	620.30	716.65	643.83	660.38	754.00	696.47
	641.83	646.25	591.04	583.88	680.86	611.38	650.25	630.49	668.93	697.33	646.00
totaal	3644.43	3677.38	3431.75	3431.13	3505.49	3374.38	3388.15	3502.42	3528.40	3617.13	3568.73
	3483.84	3730.08	3355.80	3509.88	3697.24	3591.09	3495.19	3431.85	3484.92	3740.01	3688.83

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3425.dat  
 uitvoerfiles:i:\scratch\boschloo\3425t.uit,i:\scratch\boschloo\3425t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -218.00  
 zeegrens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-9.01  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4295.1 - 9.0 t  
 periode: 2 ben(t)= 4286.1 - 9.0 t  
 periode: 3 ben(t)= 4293.7 - 9.0 t + 79.5 sin(wt + 1.5)  
 periode: 4 ben(t)= 4292.7 - 9.0 t + 45.6 sin(wt + 1.4)  
 periode: 5 ben(t)= 4287.6 - 9.0 t +107.7 sin(wt - 0.7)  
 periode: 6 ben(t)= 4297.1 - 9.0 t + 24.5 sin(wt - 0.9)  
 periode: 7 ben(t)= 4294.0 - 9.0 t + 25.4 sin(wt + 0.7)  
 periode: 8 ben(t)= 4292.6 - 9.0 t + 31.7 sin(wt - 0.2)  
 periode: 9 ben(t)= 4283.5 - 9.0 t + 89.5 sin(wt - 0.1)  
 periode: 10 ben(t)= 4285.9 - 9.0 t +106.6 sin(wt - 1.2)  
 periode: 11 ben(t)= 4295.1 - 9.0 t +105.8 sin(wt - 0.2)  
 periode: 12 ben(t)= 4303.1 - 9.0 t + 90.5 sin(wt + 0.2)  
 periode: 13 ben(t)= 4304.5 - 9.0 t + 60.9 sin(wt - 0.1)  
 periode: 14 ben(t)= 4300.1 - 9.0 t + 28.2 sin(wt - 1.0)  
 periode: 15 ben(t)= 4294.1 - 9.0 t + 16.3 sin(wt - 0.1)  
 periode: 16 ben(t)= 4289.4 - 9.0 t + 31.7 sin(wt + 1.2)  
 periode: 17 ben(t)= 4286.9 - 9.0 t + 45.9 sin(wt - 0.4)  
 periode: 18 ben(t)= 4286.3 - 9.0 t + 56.7 sin(wt + 1.1)  
 periode: 19 ben(t)= 4287.1 - 9.0 t + 65.3 sin(wt - 0.7)  
 periode: 20 ben(t)= 4289.0 - 9.0 t + 72.7 sin(wt + 0.5)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	16.09	14.67	14.96	11.81	13.38	10.10	5.25	1.26	1.26	1.26	1.30	6.28	3.25	3.00	5.96	2.62	3.12	3.42	3.10	0.92	8.96	10.39
3	282.84	267.48	252.16	258.22	238.90	245.02	234.70	234.83	241.39	241.07	235.85	247.74	238.72	243.29	249.04	255.48	252.83	253.32	259.01	231.73	277.71	279.21
2	547.52	521.75	505.16	500.65	473.09	460.97	454.68	417.64	435.74	434.43	406.88	406.51	400.74	401.65	406.99	407.70	418.19	415.09	419.37	417.11	424.35	428.55
1	663.43	631.74	620.44	605.12	572.04	566.13	570.94	558.46	550.62	540.06	537.07	583.97	556.08	578.84	572.97	596.53	600.18	620.95	575.46	561.10	627.64	629.26
-1	1672.70	1615.07	1497.32	1512.26	1638.31	1482.53	1554.32	1612.25	1521.83	1600.22	1920.70	1743.38	1675.96	1772.91	1628.75	1787.55	1734.52	1723.47	1732.14	1869.13	1817.50	1877.17
-2	661.20	637.27	543.30	600.31	702.48	642.29	686.85	709.58	638.15	760.96	705.17	663.78	686.75	623.04	587.17	672.89	608.84	631.40	613.90	667.83	702.80	699.94
totaal	3843.79	3687.96	3433.34	3488.37	3638.20	3407.03	3506.75	3534.02	3389.00	3578.00	3806.96	3651.66	3561.50	3622.73	3450.87	3722.78	3617.68	3647.66	3602.97	3747.83	3858.95	3924.51

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3450.dat  
 uitvoerfiles:i:\scratch\boschloo\3450t.uit,i:\scratch\boschloo\3450t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -217.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-8.69  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4186.1 - 8.7 t  
 periode: 2 ben(t)= 4174.1 - 8.7 t  
 periode: 3 ben(t)= 4184.0 - 8.7 t + 46.9 sin(wt - 0.4)  
 periode: 4 ben(t)= 4183.1 - 8.7 t + 58.2 sin(wt + 0.1)  
 periode: 5 ben(t)= 4184.2 - 8.7 t + 25.8 sin(wt - 1.0)  
 periode: 6 ben(t)= 4189.8 - 8.7 t + 78.2 sin(wt + 1.2)  
 periode: 7 ben(t)= 4189.5 - 8.7 t + 82.2 sin(wt + 0.3)  
 periode: 8 ben(t)= 4174.8 - 8.7 t + 134.8 sin(wt - 0.3)  
 periode: 9 ben(t)= 4168.5 - 8.7 t + 135.6 sin(wt - 0.0)  
 periode: 10 ben(t)= 4177.6 - 8.7 t + 99.6 sin(wt - 1.1)  
 periode: 11 ben(t)= 4186.1 - 8.7 t + 55.9 sin(wt - 0.1)  
 periode: 12 ben(t)= 4186.4 - 8.7 t + 8.3 sin(wt - 0.8)  
 periode: 13 ben(t)= 4178.1 - 8.7 t + 53.0 sin(wt + 0.4)  
 periode: 14 ben(t)= 4167.3 - 8.7 t + 96.3 sin(wt - 0.2)  
 periode: 15 ben(t)= 4159.8 - 8.7 t + 123.2 sin(wt - 1.2)  
 periode: 16 ben(t)= 4157.0 - 8.7 t + 137.7 sin(wt + 0.8)  
 periode: 17 ben(t)= 4157.9 - 8.7 t + 145.7 sin(wt - 0.6)  
 periode: 18 ben(t)= 4161.3 - 8.7 t + 150.8 sin(wt + 0.9)  
 periode: 19 ben(t)= 4166.3 - 8.7 t + 155.2 sin(wt - 0.8)  
 periode: 20 ben(t)= 4172.2 - 8.7 t + 159.6 sin(wt + 0.4)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	23.48	26.87	25.54	15.82	18.23	14.44	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.57
3	218.28	221.99	220.83	213.49	214.16	209.43	203.79	173.96	170.00	165.32	160.37	166.49	203.54	175.51	164.22	182.18	184.83	194.06	201.98	165.80	211.02	214.66
2	462.19	450.33	440.65	439.19	439.64	424.75	419.96	430.38	424.06	423.86	397.74	398.32	391.57	392.28	394.83	399.00	404.55	409.49	412.20	413.50	423.50	424.18
1	633.78	606.19	627.00	612.12	576.23	586.26	571.88	560.96	539.24	530.83	530.50	577.02	567.54	560.41	543.20	556.77	567.16	602.63	628.93	563.44	578.87	567.76
-1	1738.40	1706.93	1660.47	1672.63	1579.25	1603.33	1597.75	1378.07	1502.99	1629.08	1802.44	1697.09	1696.72	1597.56	1578.24	1621.39	1665.78	1935.34	1899.50	1931.25	1754.72	1792.44
-2	698.30	682.17	610.02	643.91	720.25	739.17	629.04	663.27	685.94	700.67	622.90	665.74	676.89	697.39	599.46	640.18	601.22	625.35	631.00	666.86	629.53	708.00
totaal	3774.44	3694.48	3584.51	3597.15	3547.76	3577.38	3425.43	3206.63	3322.23	3449.76	3513.94	3504.67	3536.27	3423.14	3279.96	3399.51	3423.53	3766.88	3773.61	3740.84	3598.02	3707.60

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3475.dat  
 uitvoerfiles:i:\scratch\boschloo\3475t.uit,i:\scratch\boschloo\3475t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -240.00  
 zeegrens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-8.37  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4154.4 - 8.4 t  
 periode: 2 ben(t)= 4139.8 - 8.4 t  
 periode: 3 ben(t)= 4153.3 - 8.4 t + 42.1 sin(wt - 1.5)  
 periode: 4 ben(t)= 4150.7 - 8.4 t + 72.5 sin(wt + 1.4)  
 periode: 5 ben(t)= 4150.9 - 8.4 t + 49.0 sin(wt - 0.7)  
 periode: 6 ben(t)= 4148.9 - 8.4 t +129.6 sin(wt - 0.0)  
 periode: 7 ben(t)= 4150.5 - 8.4 t +114.2 sin(wt + 1.4)  
 periode: 8 ben(t)= 4156.1 - 8.4 t + 19.9 sin(wt - 0.1)  
 periode: 9 ben(t)= 4150.1 - 8.4 t + 34.5 sin(wt + 0.1)  
 periode: 10 ben(t)= 4152.1 - 8.4 t + 28.0 sin(wt - 1.4)  
 periode: 11 ben(t)= 4154.4 - 8.4 t + 33.2 sin(wt + 1.1)  
 periode: 12 ben(t)= 4148.4 - 8.4 t + 86.7 sin(wt + 0.9)  
 periode: 13 ben(t)= 4133.5 - 8.4 t +148.2 sin(wt + 0.6)  
 periode: 14 ben(t)= 4118.1 - 8.4 t +195.8 sin(wt - 0.1)  
 periode: 15 ben(t)= 4108.9 - 8.4 t +223.4 sin(wt - 1.0)  
 periode: 16 ben(t)= 4106.7 - 8.4 t +237.3 sin(wt + 1.0)  
 periode: 17 ben(t)= 4109.6 - 8.4 t +244.8 sin(wt - 0.5)  
 periode: 18 ben(t)= 4115.7 - 8.4 t +250.7 sin(wt + 1.1)  
 periode: 19 ben(t)= 4123.8 - 8.4 t +256.9 sin(wt - 0.6)  
 periode: 20 ben(t)= 4133.2 - 8.4 t +264.5 sin(wt + 0.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	263.54	163.56	108.93	63.10	63.85	66.81	69.99	69.68	47.10	46.41	34.89	37.21	38.81	64.90	66.12	64.47	60.70	60.36	58.31	57.38	58.18	57.83
3	377.17	266.44	205.58	145.98	149.21	152.72	165.69	165.21	146.24	143.11	125.02	118.10	116.53	147.34	151.73	149.14	143.45	146.05	144.74	145.45	145.35	143.90
2	487.68	380.81	320.05	262.50	269.55	271.25	283.81	287.23	265.00	235.50	226.24	221.25	229.93	255.73	264.30	273.33	261.02	248.06	245.95	249.77	254.03	254.59
1	726.59	619.62	584.93	516.12	561.17	568.51	560.98	556.88	502.78	490.72	482.53	465.51	487.17	535.95	538.40	521.52	522.92	471.78	521.32	508.33	491.44	525.33
-1	1649.63	1892.22	1763.13	1834.39	1929.64	1834.12	1669.43	1769.70	1743.65	1602.13	1617.10	1857.11	1821.05	1808.84	1715.83	1767.74	1742.64	1878.55	2038.42	1972.40	1860.20	1836.61
-2	676.37	715.95	657.07	742.62	762.33	770.72	718.17	696.30	648.81	633.80	588.76	659.39	676.82	654.77	648.22	767.76	662.19	640.00	645.50	695.05	703.23	683.37
totaal	4180.98	4038.59	3639.70	3564.71	3735.75	3664.13	3468.07	3544.99	3353.59	3151.67	3074.53	3358.57	3370.32	3467.53	3384.59	3543.95	3392.91	3444.79	3654.23	3628.38	3512.43	3501.63

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3500.dat  
 uitvoerfiles:i:\scratch\boschloo\3500t.uit,i:\scratch\boschloo\3500t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -275.00  
 zeegrens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-8.05  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5334.8 - 8.1 t  
 periode: 2 ben(t)= 5327.8 - 8.1 t  
 periode: 3 ben(t)= 5334.5 - 8.1 t + 50.7 sin(wt + 1.2)  
 periode: 4 ben(t)= 5334.7 - 8.1 t + 10.0 sin(wt - 0.6)  
 periode: 5 ben(t)= 5335.2 - 8.1 t + 80.3 sin(wt + 0.7)  
 periode: 6 ben(t)= 5332.6 - 8.1 t + 42.7 sin(wt + 1.2)  
 periode: 7 ben(t)= 5332.3 - 8.1 t + 54.0 sin(wt + 0.7)  
 periode: 8 ben(t)= 5343.1 - 8.1 t +101.1 sin(wt - 0.2)  
 periode: 9 ben(t)= 5352.0 - 8.1 t +135.8 sin(wt + 0.1)  
 periode: 10 ben(t)= 5348.4 - 8.1 t +164.8 sin(wt - 1.0)  
 periode: 11 ben(t)= 5334.8 - 8.1 t +203.9 sin(wt + 0.1)  
 periode: 12 ben(t)= 5313.8 - 8.1 t +245.4 sin(wt + 0.5)  
 periode: 13 ben(t)= 5293.1 - 8.1 t +271.3 sin(wt + 0.3)  
 periode: 14 ben(t)= 5281.3 - 8.1 t +272.4 sin(wt - 0.3)  
 periode: 15 ben(t)= 5279.7 - 8.1 t +257.2 sin(wt - 1.2)  
 periode: 16 ben(t)= 5284.5 - 8.1 t +237.8 sin(wt + 0.8)  
 periode: 17 ben(t)= 5292.1 - 8.1 t +220.8 sin(wt - 0.6)  
 periode: 18 ben(t)= 5300.7 - 8.1 t +207.9 sin(wt + 0.9)  
 periode: 19 ben(t)= 5309.4 - 8.1 t +199.0 sin(wt - 0.8)  
 periode: 20 ben(t)= 5318.0 - 8.1 t +193.4 sin(wt + 0.4)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	175.88	174.40	185.86	192.62	185.92	193.39	158.48	120.69	100.43	105.35	99.73
	73.79	52.82	167.97	200.47	175.24	172.88	158.27	151.43	165.11	153.16	152.61
3	551.05	549.37	548.61	550.27	545.69	545.30	484.44	447.20	447.31	428.90	425.20
	377.20	326.42	441.65	470.95	443.73	434.93	407.14	403.27	410.96	385.38	389.67
2	701.60	698.00	699.71	701.45	705.05	706.98	649.83	607.75	606.25	610.40	577.15
	526.90	470.26	585.38	623.95	607.54	593.76	556.64	545.85	553.46	522.57	528.35
1	956.54	949.30	948.77	962.29	989.09	954.24	867.77	825.61	826.60	792.43	734.17
	686.70	718.20	852.65	895.63	844.36	877.46	715.23	723.23	757.89	717.07	722.30
-1	2130.17	2051.75	2005.82	2109.92	1962.83	1999.13	2033.89	1918.00	1976.44	1832.98	1863.68
	1910.35	1964.07	2016.68	1856.90	1982.36	2052.01	1898.95	2099.65	1972.97	1865.69	1927.41
-2	720.67	725.75	682.82	732.00	758.92	789.80	817.66	776.50	761.34	715.03	676.79
	689.11	669.77	700.20	660.80	714.97	702.45	676.75	669.75	733.92	675.43	658.59
totaal	5235.90	5148.58	5071.59	5248.55	5147.50	5188.83	5012.08	4695.74	4718.36	4485.10	4376.72
	4264.06	4201.53	4764.53	4708.70	4768.21	4833.49	4412.97	4593.17	4594.30	4319.29	4378.92

source program: SIRENE  
 stuurprogramma: a:\stuur\stuural.stu  
 sourcefile: b:\invoer\r3525.dat  
 uitvoerfiles: i:\scratch\boschloo\3525t.uit, i:\scratch\boschloo\3525t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -232.00  
 zeegrens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend: -7.73  
 amplitude: vrij  
 fase/jr opgang: vrij

periode: 1 ben(t)= 4076.0 - 7.7 t  
 periode: 2 ben(t)= 4049.0 - 7.7 t  
 periode: 3 ben(t)= 4071.9 - 7.7 t + 91.0 sin(wt - 0.4)  
 periode: 4 ben(t)= 4072.6 - 7.7 t + 56.4 sin(wt + 1.1)  
 periode: 5 ben(t)= 4074.1 - 7.7 t + 64.9 sin(wt + 1.0)  
 periode: 6 ben(t)= 4070.8 - 7.7 t +134.0 sin(wt + 1.0)  
 periode: 7 ben(t)= 4073.1 - 7.7 t +135.6 sin(wt - 0.4)  
 periode: 8 ben(t)= 4074.5 - 7.7 t + 22.5 sin(wt + 0.3)  
 periode: 9 ben(t)= 4066.8 - 7.7 t + 94.6 sin(wt - 0.9)  
 periode: 10 ben(t)= 4070.5 - 7.7 t +134.5 sin(wt + 0.8)  
 periode: 11 ben(t)= 4076.0 - 7.7 t +139.8 sin(wt - 1.5)  
 periode: 12 ben(t)= 4073.3 - 7.7 t +129.5 sin(wt - 1.5)  
 periode: 13 ben(t)= 4061.1 - 7.7 t +144.7 sin(wt + 1.0)  
 periode: 14 ben(t)= 4046.7 - 7.7 t +175.6 sin(wt + 0.1)  
 periode: 15 ben(t)= 4037.1 - 7.7 t +198.9 sin(wt - 0.9)  
 periode: 16 ben(t)= 4034.0 - 7.7 t +211.8 sin(wt + 1.0)  
 periode: 17 ben(t)= 4035.8 - 7.7 t +218.8 sin(wt - 0.5)  
 periode: 18 ben(t)= 4040.8 - 7.7 t +223.5 sin(wt + 1.1)  
 periode: 19 ben(t)= 4047.9 - 7.7 t +228.0 sin(wt - 0.7)  
 periode: 20 ben(t)= 4056.4 - 7.7 t +233.1 sin(wt + 0.5)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	109.39	100.79	137.78	133.70	28.68	27.00	26.02	27.51	52.96	52.02	49.63	47.67	51.46	50.14	68.03	50.20	47.00	71.98	48.95	57.71	111.88	116.77
3	292.09	292.45	301.13	305.78	130.49	120.81	120.63	123.51	150.58	151.21	154.89	151.39	143.77	139.76	164.61	143.44	146.44	166.16	142.57	141.03	221.29	228.89
2	406.59	406.87	415.25	419.46	254.08	249.67	260.26	263.52	293.64	297.42	255.51	251.23	235.79	237.52	271.02	246.26	254.57	281.71	253.08	236.38	312.17	331.38
1	598.67	608.47	613.92	683.43	508.82	483.96	434.85	489.56	465.54	456.03	339.68	392.88	388.16	409.73	398.86	453.75	482.23	444.38	346.91	371.20	424.50	450.13
-1	1935.00	1952.97	1897.92	2004.57	1915.05	1908.13	1798.64	1792.89	1767.17	1733.49	1773.36	1720.78	1937.68	1778.95	1840.91	1867.50	1888.31	1731.97	1745.83	1713.57	1609.43	1824.78
-2	666.75	676.17	634.12	664.77	686.38	714.75	742.62	694.36	673.50	678.05	634.87	610.14	655.46	679.15	635.33	707.00	704.19	631.51	639.33	677.92	668.47	706.31
totaal	4008.49	4037.72	4000.12	4211.70	3523.50	3504.31	3383.03	3391.35	3403.40	3368.21	3207.93	3174.09	3412.32	3295.25	3378.76	3468.15	3522.74	3327.71	3176.68	3197.81	3347.73	3658.25



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3550.dat  
 uitvoerfiles:i:\scratch\boschloo\3550t.uit,i:\scratch\boschloo\3550t.prn  
 i:\scratch\boschloo\tfoot.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -205.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-7.41  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4386.6 - 7.4 t  
 periode: 2 ben(t)= 4344.1 - 7.4 t  
 periode: 3 ben(t)= 4385.7 - 7.4 t + 21.2 sin(wt - 0.5)  
 periode: 4 ben(t)= 4385.4 - 7.4 t + 21.1 sin(wt + 1.2)  
 periode: 5 ben(t)= 4382.8 - 7.4 t + 53.0 sin(wt - 1.1)  
 periode: 6 ben(t)= 4388.3 - 7.4 t + 29.3 sin(wt + 1.4)  
 periode: 7 ben(t)= 4384.7 - 7.4 t + 71.6 sin(wt - 1.5)  
 periode: 8 ben(t)= 4392.8 - 7.4 t + 84.8 sin(wt + 0.1)  
 periode: 9 ben(t)= 4395.0 - 7.4 t + 64.5 sin(wt - 0.1)  
 periode: 10 ben(t)= 4390.9 - 7.4 t + 66.8 sin(wt + 1.1)  
 periode: 11 ben(t)= 4386.6 - 7.4 t + 95.4 sin(wt - 1.3)  
 periode: 12 ben(t)= 4383.3 - 7.4 t +110.2 sin(wt - 1.0)  
 periode: 13 ben(t)= 4381.3 - 7.4 t +113.4 sin(wt - 1.1)  
 periode: 14 ben(t)= 4380.8 - 7.4 t +113.8 sin(wt + 1.4)  
 periode: 15 ben(t)= 4381.2 - 7.4 t +115.0 sin(wt + 0.4)  
 periode: 16 ben(t)= 4381.9 - 7.4 t +118.2 sin(wt - 0.8)  
 periode: 17 ben(t)= 4382.7 - 7.4 t +123.3 sin(wt + 0.9)  
 periode: 18 ben(t)= 4383.6 - 7.4 t +130.2 sin(wt - 0.7)  
 periode: 19 ben(t)= 4384.4 - 7.4 t +138.8 sin(wt + 0.6)  
 periode: 20 ben(t)= 4385.1 - 7.4 t +148.8 sin(wt - 1.3)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	21.90	29.22	33.20	38.20	40.46	44.24	52.47	63.07	63.30	58.91	61.11	58.16	60.08	61.69	64.94	67.36	66.15	69.57	61.91	60.15	50.76	55.85
3	283.28	282.15	282.78	287.11	284.96	291.91	289.00	291.36	293.05	287.28	260.86	262.48	250.92	248.02	247.79	250.18	244.72	247.33	252.16	242.79	250.88	252.77
2	503.56	499.76	494.61	497.40	499.57	504.61	504.68	508.22	511.46	508.53	467.34	462.95	444.09	446.49	441.55	445.60	445.33	448.66	452.03	433.04	440.77	439.63
1	701.57	676.52	687.48	687.72	715.44	725.01	702.60	710.91	674.78	644.63	575.45	618.95	619.50	616.45	615.47	646.04	609.21	634.64	577.43	596.61	637.71	646.27
-1	1816.65	1802.83	1668.76	1719.47	1775.30	1895.20	1844.01	1766.23	1677.73	1597.83	1714.42	1767.62	1734.58	1637.20	1698.60	1779.31	1690.57	1782.08	1657.51	1761.47	1649.63	1783.51
-2	605.61	653.67	599.69	643.68	669.27	672.33	711.15	719.73	671.71	736.75	647.87	619.83	644.97	662.25	570.80	646.62	590.09	593.08	626.19	682.08	684.13	698.67
totaal	3932.56	3944.15	3766.52	3873.58	3985.00	4133.31	4103.91	4059.52	3892.04	3833.93	3727.05	3790.00	3754.14	3672.10	3639.15	3835.12	3646.07	3775.37	3627.23	3776.13	3713.88	3876.70

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3575.dat  
 uitvoerfiles:i:\scratch\boschloo\3575t.uit,i:\scratch\boschloo\3575t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -190.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-7.09  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4241.9 - 7.1 t  
 periode: 2 ben(t)= 4237.3 - 7.1 t  
 periode: 3 ben(t)= 4242.8 - 7.1 t + 22.3 sin(wt - 0.1)  
 periode: 4 ben(t)= 4241.5 - 7.1 t + 26.4 sin(wt - 0.6)  
 periode: 5 ben(t)= 4235.6 - 7.1 t + 93.1 sin(wt - 1.3)  
 periode: 6 ben(t)= 4237.5 - 7.1 t + 61.1 sin(wt - 0.6)  
 periode: 7 ben(t)= 4238.3 - 7.1 t + 85.2 sin(wt + 1.0)  
 periode: 8 ben(t)= 4243.5 - 7.1 t + 21.8 sin(wt + 0.1)  
 periode: 9 ben(t)= 4236.4 - 7.1 t + 47.4 sin(wt + 0.3)  
 periode: 10 ben(t)= 4236.4 - 7.1 t + 86.5 sin(wt - 0.5)  
 periode: 11 ben(t)= 4241.9 - 7.1 t +106.9 sin(wt + 0.8)  
 periode: 12 ben(t)= 4246.5 - 7.1 t +106.3 sin(wt + 1.3)  
 periode: 13 ben(t)= 4246.7 - 7.1 t + 96.0 sin(wt + 1.4)  
 periode: 14 ben(t)= 4242.9 - 7.1 t + 89.4 sin(wt + 1.1)  
 periode: 15 ben(t)= 4238.5 - 7.1 t + 90.3 sin(wt + 0.4)  
 periode: 16 ben(t)= 4235.4 - 7.1 t + 95.3 sin(wt - 0.7)  
 periode: 17 ben(t)= 4233.9 - 7.1 t +101.9 sin(wt + 1.1)  
 periode: 18 ben(t)= 4233.9 - 7.1 t +109.0 sin(wt - 0.4)  
 periode: 19 ben(t)= 4234.9 - 7.1 t +116.8 sin(wt + 1.0)  
 periode: 20 ben(t)= 4236.7 - 7.1 t +125.1 sin(wt - 0.9)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	66.49	65.97	65.43	63.11	66.37	64.17	66.99	63.58	67.06	65.74	66.39	62.20	57.71	60.24	98.13	67.16	99.79	63.97	65.50	60.57	77.89	74.17
3	267.60	275.05	272.46	275.92	275.76	276.15	278.55	280.99	282.05	285.09	250.55	248.53	237.22	236.42	267.21	235.75	268.74	232.42	232.32	230.04	244.55	243.69
2	451.70	451.82	441.45	445.50	442.00	428.79	434.12	440.70	428.85	429.98	385.80	388.86	371.64	374.74	410.15	390.97	409.34	371.60	367.10	366.24	381.18	388.79
1	700.40	660.79	639.65	650.31	618.08	625.73	671.95	659.60	634.09	594.45	586.26	572.92	581.68	594.53	610.68	582.63	613.78	566.23	540.85	596.75	643.95	625.73
-1	1739.53	1771.31	1722.04	1614.70	1509.47	1692.14	1871.04	1695.51	1617.35	1600.80	1811.97	1820.49	1626.40	1792.18	1569.44	1575.26	1645.03	1743.31	1707.12	1804.57	1891.92	1822.05
-2	628.93	643.81	645.53	629.08	641.03	628.67	677.44	697.55	667.17	685.20	665.93	625.10	601.60	664.13	575.12	640.72	626.67	629.54	635.77	672.76	709.68	684.45
totaal	3854.65	3868.75	3786.56	3678.62	3552.71	3715.65	4000.09	3837.92	3696.58	3661.26	3766.90	3718.10	3476.26	3722.24	3530.74	3492.48	3663.35	3607.07	3548.66	3730.93	3949.17	3838.87

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3600.dat
uitvoerfiles:i:\scratch\boschloo\3600t.uit,i:\scratch\boschloo\3600t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -175.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-6.77
amplitude:vrij
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4236.3 - 6.8 t
periode: 2  ben(t)= 4240.0 - 6.8 t
periode: 3  ben(t)= 4234.7 - 6.8 t + 35.6 sin(wt - 0.7)
periode: 4  ben(t)= 4235.1 - 6.8 t + 26.6 sin(wt + 1.6)
periode: 5  ben(t)= 4235.1 - 6.8 t + 44.5 sin(wt + 1.0)
periode: 6  ben(t)= 4232.6 - 6.8 t + 47.0 sin(wt - 1.1)
periode: 7  ben(t)= 4234.8 - 6.8 t + 40.7 sin(wt + 1.2)
periode: 8  ben(t)= 4235.0 - 6.8 t + 30.0 sin(wt - 1.4)
periode: 9  ben(t)= 4230.0 - 6.8 t + 48.5 sin(wt - 0.3)
periode: 10 ben(t)= 4232.0 - 6.8 t + 58.4 sin(wt - 0.7)
periode: 11 ben(t)= 4236.3 - 6.8 t + 73.6 sin(wt + 0.9)
periode: 12 ben(t)= 4237.9 - 6.8 t + 80.3 sin(wt - 1.5)
periode: 13 ben(t)= 4235.0 - 6.8 t + 84.0 sin(wt - 1.3)
periode: 14 ben(t)= 4230.0 - 6.8 t + 91.7 sin(wt + 1.5)
periode: 15 ben(t)= 4225.9 - 6.8 t +100.8 sin(wt + 0.7)
periode: 16 ben(t)= 4223.9 - 6.8 t +109.0 sin(wt - 0.4)
periode: 17 ben(t)= 4223.7 - 6.8 t +116.5 sin(wt + 1.3)
periode: 18 ben(t)= 4224.9 - 6.8 t +123.9 sin(wt - 0.3)
periode: 19 ben(t)= 4227.0 - 6.8 t +131.9 sin(wt + 1.1)
periode: 20 ben(t)= 4229.7 - 6.8 t +140.7 sin(wt - 0.9)

```

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	58.55	58.14	58.79	61.51	60.09	67.15	62.58	64.36	61.20	61.04	62.02	61.73	58.54	56.67	58.70	62.39	60.14	63.64	63.02	48.89	64.96	65.67
3	249.04	250.29	253.50	258.46	255.71	266.81	263.13	268.06	270.84	272.76	259.53	251.52	212.81	210.40	210.18	216.62	215.81	216.66	215.51	202.24	224.98	228.54
2	468.01	470.26	469.71	477.88	482.58	474.60	479.33	487.81	485.69	485.84	441.30	430.64	394.75	398.10	406.97	417.89	414.07	408.13	392.43	385.29	398.88	407.33
1	682.99	646.47	683.20	690.68	642.52	624.23	693.41	654.57	644.10	618.41	596.23	588.42	577.11	617.94	614.55	593.96	606.28	555.34	554.79	578.40	614.47	609.18
-1	1821.17	1807.46	1849.17	1730.23	1679.38	1666.41	1791.43	1707.29	1624.02	1599.84	1648.81	1670.37	1802.56	1764.43	1553.94	1602.32	1708.28	1649.63	1785.51	1773.26	1840.32	1804.67
-2	629.67	619.43	646.97	672.44	670.70	642.03	638.07	679.65	685.75	714.90	621.94	649.59	613.47	621.46	559.66	666.90	619.30	644.34	632.67	650.15	698.64	663.57
totaal	3909.43	3852.06	3961.34	3891.20	3790.99	3741.22	3927.95	3861.74	3771.61	3752.80	3629.83	3652.27	3659.24	3669.00	3404.00	3560.08	3623.88	3537.74	3643.93	3638.23	3842.24	3778.97

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3625.dat  
 uitvoerfiles:i:\scratch\boschloo\3625t.uit,i:\scratch\boschloo\3625t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -188.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-6.45  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4691.9 - 6.5 t  
 periode: 2 ben(t)= 4676.2 - 6.5 t  
 periode: 3 ben(t)= 4691.9 - 6.5 t + 16.7 sin(wt + 1.0)  
 periode: 4 ben(t)= 4694.3 - 6.5 t + 37.7 sin(wt + 0.9)  
 periode: 5 ben(t)= 4694.4 - 6.5 t + 34.3 sin(wt - 0.9)  
 periode: 6 ben(t)= 4687.6 - 6.5 t + 96.2 sin(wt + 1.1)  
 periode: 7 ben(t)= 4690.9 - 6.5 t + 83.7 sin(wt - 0.6)  
 periode: 8 ben(t)= 4693.7 - 6.5 t + 49.9 sin(wt - 1.5)  
 periode: 9 ben(t)= 4696.2 - 6.5 t + 50.7 sin(wt - 1.0)  
 periode: 10 ben(t)= 4695.6 - 6.5 t + 67.4 sin(wt + 1.0)  
 periode: 11 ben(t)= 4691.9 - 6.5 t + 85.0 sin(wt - 1.0)  
 periode: 12 ben(t)= 4686.4 - 6.5 t + 94.9 sin(wt - 0.6)  
 periode: 13 ben(t)= 4681.6 - 6.5 t + 97.8 sin(wt - 0.7)  
 periode: 14 ben(t)= 4679.5 - 6.5 t + 95.8 sin(wt - 1.3)  
 periode: 15 ben(t)= 4679.8 - 6.5 t + 92.6 sin(wt + 0.9)  
 periode: 16 ben(t)= 4681.5 - 6.5 t + 91.0 sin(wt - 0.4)  
 periode: 17 ben(t)= 4683.5 - 6.5 t + 91.6 sin(wt + 1.2)  
 periode: 18 ben(t)= 4685.5 - 6.5 t + 94.4 sin(wt - 0.5)  
 periode: 19 ben(t)= 4687.4 - 6.5 t + 99.0 sin(wt + 0.8)  
 periode: 20 ben(t)= 4689.0 - 6.5 t + 105.1 sin(wt - 1.1)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	92.07	93.50	106.99	112.94	121.80	125.15	120.63	119.92	124.30	126.63	110.33
	115.53	120.15	116.09	123.52	131.92	125.34	133.34	138.49	146.20	162.80	151.11
3	335.88	336.08	340.38	345.46	353.47	351.54	351.96	350.86	347.68	357.44	335.54
	357.45	335.95	334.67	326.07	332.83	330.27	332.79	338.60	331.62	332.34	335.73
2	489.76	496.38	506.60	515.16	530.37	533.83	543.32	548.56	565.37	572.86	560.40
	529.59	465.58	465.29	471.36	480.26	482.27	482.60	480.66	458.45	472.44	471.48
1	729.36	792.11	784.16	792.25	771.08	798.67	748.21	785.23	783.12	745.76	728.26
	654.62	654.73	688.68	705.04	731.69	738.26	676.35	617.90	672.33	660.89	704.05
-1	1844.38	1970.33	2114.78	1910.46	1857.08	1872.65	1844.87	1974.56	1863.72	1812.38	1748.61
	1645.15	1818.60	1769.18	1845.54	1872.60	1837.41	1746.54	1859.20	1874.95	1676.76	1798.67
-2	697.66	666.17	703.05	691.05	680.12	646.58	658.34	675.08	723.59	720.19	672.95
	672.24	620.21	644.65	606.25	710.33	657.95	630.63	679.00	691.78	671.94	669.67
totaal	4189.11	4354.57	4555.96	4367.32	4313.92	4328.43	4267.33	4454.20	4407.79	4335.26	4156.09
	3974.59	4015.22	4018.56	4077.78	4259.63	4171.49	4002.24	4113.84	4175.34	3977.16	4130.71

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3650.dat
uitvoerfiles:i:\scratch\boschloo\3650t.uit,i:\scratch\boschloo\3650t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -145.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-6.13
amplitude:vrij
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3914.1 - 6.1 t
periode: 2  ben(t)= 3919.0 - 6.1 t
periode: 3  ben(t)= 3913.3 - 6.1 t + 17.7 sin(wt - 0.7)
periode: 4  ben(t)= 3916.9 - 6.1 t + 65.0 sin(wt - 0.1)
periode: 5  ben(t)= 3916.3 - 6.1 t + 47.2 sin(wt + 1.3)
periode: 6  ben(t)= 3919.8 - 6.1 t +108.9 sin(wt - 0.2)
periode: 7  ben(t)= 3917.7 - 6.1 t + 85.1 sin(wt + 1.1)
periode: 8  ben(t)= 3913.2 - 6.1 t + 11.1 sin(wt - 0.2)
periode: 9  ben(t)= 3921.2 - 6.1 t + 55.6 sin(wt - 0.4)
periode: 10 ben(t)= 3920.8 - 6.1 t + 86.8 sin(wt + 1.4)
periode: 11 ben(t)= 3914.1 - 6.1 t +104.6 sin(wt - 0.8)
periode: 12 ben(t)= 3907.9 - 6.1 t +105.8 sin(wt - 0.6)
periode: 13 ben(t)= 3906.6 - 6.1 t + 95.5 sin(wt - 0.9)
periode: 14 ben(t)= 3909.9 - 6.1 t + 86.9 sin(wt + 1.4)
periode: 15 ben(t)= 3914.6 - 6.1 t + 86.5 sin(wt + 0.2)
periode: 16 ben(t)= 3918.2 - 6.1 t + 91.9 sin(wt - 1.2)
periode: 17 ben(t)= 3920.2 - 6.1 t + 99.5 sin(wt + 0.4)
periode: 18 ben(t)= 3920.7 - 6.1 t +107.9 sin(wt - 1.2)
periode: 19 ben(t)= 3920.1 - 6.1 t +117.0 sin(wt + 0.1)
periode: 20 ben(t)= 3918.7 - 6.1 t +126.7 sin(wt + 1.3)

```

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	24.78	25.51	24.22	29.20	30.14	31.27	31.31	31.96	30.84	33.40	32.18	36.84	32.74	31.89	30.18	35.57	34.16	43.70	48.38	45.97	53.02	47.58
3	206.53	206.79	203.27	214.71	218.68	220.27	219.78	222.20	231.60	243.65	241.20	239.85	213.01	210.95	208.95	217.96	217.90	210.96	222.25	209.89	206.39	194.73
2	361.15	368.19	368.34	377.33	390.59	397.76	409.95	416.81	429.16	431.76	423.80	411.62	351.99	355.34	347.62	352.03	355.58	359.59	357.33	333.58	328.94	326.33
1	532.14	574.55	561.27	597.02	626.69	625.38	569.06	605.78	617.35	573.09	563.60	519.52	505.48	513.70	510.99	548.20	540.28	547.29	458.82	497.17	499.42	502.39
-1	1643.63	1605.77	1683.54	1976.09	1763.71	1640.47	1782.43	1649.89	1736.72	1627.06	1660.05	1505.02	1639.00	1548.14	1635.36	1699.00	1668.84	1581.09	1566.50	1573.04	1500.99	1446.42
-2	677.42	628.17	676.89	692.22	690.00	697.88	668.91	612.36	643.10	664.60	709.49	680.67	619.13	575.27	535.80	613.50	600.94	593.78	594.08	616.46	634.00	611.83
totaal	3445.66	3408.98	3517.54	3886.57	3719.81	3613.03	3681.45	3539.00	3688.77	3573.56	3630.33	3393.51	3361.35	3235.28	3268.89	3466.25	3417.71	3336.40	3247.36	3276.10	3222.75	3129.28



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3700.dat  
 uitvoerfiles:i:\scratch\boschloo\3700t.uit,i:\scratch\boschloo\3700t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -135.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-5.49  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4209.4 - 5.5 t  
 periode: 2 ben(t)= 4217.2 - 5.5 t  
 periode: 3 ben(t)= 4208.5 - 5.5 t + 42.8 sin(wt + 0.6)  
 periode: 4 ben(t)= 4206.7 - 5.5 t + 63.8 sin(wt - 1.5)  
 periode: 5 ben(t)= 4208.1 - 5.5 t + 19.9 sin(wt - 0.5)  
 periode: 6 ben(t)= 4211.9 - 5.5 t +135.7 sin(wt + 0.8)  
 periode: 7 ben(t)= 4208.7 - 5.5 t +160.0 sin(wt - 1.0)  
 periode: 8 ben(t)= 4210.9 - 5.5 t + 65.4 sin(wt + 0.9)  
 periode: 9 ben(t)= 4208.1 - 5.5 t + 17.6 sin(wt + 0.8)  
 periode: 10 ben(t)= 4206.1 - 5.5 t + 82.7 sin(wt - 0.2)  
 periode: 11 ben(t)= 4209.4 - 5.5 t +120.7 sin(wt + 0.9)  
 periode: 12 ben(t)= 4216.9 - 5.5 t +134.2 sin(wt + 1.1)  
 periode: 13 ben(t)= 4224.7 - 5.5 t +136.5 sin(wt + 0.9)  
 periode: 14 ben(t)= 4229.0 - 5.5 t +131.6 sin(wt + 0.3)  
 periode: 15 ben(t)= 4229.3 - 5.5 t +123.1 sin(wt - 0.6)  
 periode: 16 ben(t)= 4227.3 - 5.5 t +114.9 sin(wt + 1.4)  
 periode: 17 ben(t)= 4224.2 - 5.5 t +108.7 sin(wt - 0.0)  
 periode: 18 ben(t)= 4221.0 - 5.5 t +105.0 sin(wt + 1.6)  
 periode: 19 ben(t)= 4217.8 - 5.5 t +103.5 sin(wt - 0.2)  
 periode: 20 ben(t)= 4214.9 - 5.5 t +103.8 sin(wt + 1.1)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	69.96	74.31	73.03	101.30	80.42	79.37	78.21	85.73	90.83	97.92	79.17	105.34	108.29	108.29	107.65	128.71	127.11	132.43	122.46	118.74	129.96	133.40
3	260.96	265.39	266.08	279.42	271.78	266.50	266.59	271.33	272.87	271.31	257.37	272.05	277.03	277.03	274.88	287.54	284.99	289.47	286.99	282.34	290.04	294.66
2	447.97	447.91	415.90	413.51	415.48	411.80	413.53	417.33	416.46	421.25	404.38	417.11	415.87	415.87	425.82	440.29	435.07	434.96	444.80	433.05	437.98	449.47
1	682.29	632.25	563.94	572.98	612.64	665.74	645.29	694.86	665.94	629.86	536.30	669.95	702.00	651.16	627.72	627.40	606.23	627.15	595.76	621.89	675.63	646.30
-1	1885.75	1447.53	1614.68	1520.34	1683.79	1835.43	1751.43	1834.23	1767.41	1743.37	1777.44	1842.63	1889.64	1817.61	1649.90	1620.50	1599.37	1779.96	1811.35	1790.86	1693.53	1614.15
-2	671.04	583.84	656.99	579.35	695.54	735.67	686.08	651.17	621.43	672.97	694.08	711.75	643.47	581.67	542.00	537.00	551.08	525.30	610.97	662.04	697.14	695.80
totaal	4017.98	3451.23	3590.62	3466.90	3759.65	3994.50	3841.13	3954.65	3834.93	3836.68	3748.74	4018.83	4036.31	3851.63	3627.98	3641.45	3603.85	3789.27	3872.32	3908.93	3924.28	3833.78

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3725.dat
uitvoerfiles:i:\scratch\boschloo\3725t.uit,i:\scratch\boschloo\3725t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -145.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-5.17
amplitude:vrij
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4677.4 - 5.2 t
periode: 2  ben(t)= 4668.6 - 5.2 t
periode: 3  ben(t)= 4677.3 - 5.2 t + 31.3 sin(wt + 1.0)
periode: 4  ben(t)= 4676.7 - 5.2 t + 37.5 sin(wt - 1.1)
periode: 5  ben(t)= 4680.1 - 5.2 t + 84.4 sin(wt + 0.2)
periode: 6  ben(t)= 4669.9 - 5.2 t +124.4 sin(wt - 0.4)
periode: 7  ben(t)= 4675.0 - 5.2 t + 84.0 sin(wt + 1.6)
periode: 8  ben(t)= 4674.6 - 5.2 t + 38.8 sin(wt - 0.9)
periode: 9  ben(t)= 4664.1 - 5.2 t +102.7 sin(wt - 0.0)
periode: 10 ben(t)= 4666.4 - 5.2 t +133.2 sin(wt - 0.9)
periode: 11 ben(t)= 4677.4 - 5.2 t +149.9 sin(wt + 0.2)
periode: 12 ben(t)= 4689.9 - 5.2 t +152.7 sin(wt + 0.6)
periode: 13 ben(t)= 4697.7 - 5.2 t +139.3 sin(wt + 0.5)
periode: 14 ben(t)= 4698.4 - 5.2 t +115.4 sin(wt - 0.0)
periode: 15 ben(t)= 4694.7 - 5.2 t + 91.1 sin(wt - 0.9)
periode: 16 ben(t)= 4689.9 - 5.2 t + 72.6 sin(wt + 1.2)
periode: 17 ben(t)= 4685.6 - 5.2 t + 60.5 sin(wt - 0.0)
periode: 18 ben(t)= 4682.4 - 5.2 t + 53.7 sin(wt - 1.5)
periode: 19 ben(t)= 4680.1 - 5.2 t + 50.8 sin(wt + 0.1)
periode: 20 ben(t)= 4678.6 - 5.2 t + 50.5 sin(wt, + 1.5)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	168.04	171.97	180.79	178.77	176.72	179.80	181.70	181.27	184.64	181.66	183.62
	199.42	197.00	190.55	190.94	161.07	197.26	201.31	196.41	179.56	219.16	217.99
3	462.64	465.07	468.92	472.13	471.18	465.06	463.42	464.05	459.43	465.02	454.68
	465.18	463.96	464.45	466.41	463.41	470.52	466.96	465.69	463.95	470.02	471.59
2	541.48	546.38	546.68	546.28	519.55	504.94	507.66	507.24	506.97	512.05	511.31
	515.42	512.40	514.01	521.64	522.68	531.73	515.95	514.29	513.07	521.12	532.95
1	688.32	702.87	704.52	675.10	636.27	643.90	649.90	702.14	700.56	680.12	643.46
	705.49	703.71	776.72	721.38	652.40	692.71	626.65	650.16	658.97	704.13	729.32
-1	1841.96	1632.11	1749.88	1626.00	1490.94	1630.38	1628.92	2006.85	1884.24	1765.75	1752.05
	1894.11	2002.08	1946.77	1671.17	1692.27	1629.52	1892.73	1969.83	1932.92	1931.25	1843.01
-2	677.54	617.05	657.07	653.87	674.66	707.50	707.58	651.25	662.64	639.00	678.12
	703.43	592.50	573.83	567.57	583.88	581.33	559.42	600.56	656.33	690.25	697.97
totaal	4379.98	4135.45	4307.85	4152.15	3969.33	4131.58	4139.18	4512.80	4398.48	4243.60	4223.24
	4483.05	4471.65	4466.33	4139.10	4075.71	4103.07	4263.02	4396.94	4404.81	4535.93	4492.83



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3750.dat  
 uitvoerfiles:i:\scratch\boschloo\3750t.uit,i:\scratch\boschloo\3750t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -75.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-4.85  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 2899.2 - 4.9 t  
 periode: 2 ben(t)= 2914.5 - 4.9 t  
 periode: 3 ben(t)= 2899.7 - 4.9 t + 17.6 sin(wt + 0.4)  
 periode: 4 ben(t)= 2901.1 - 4.9 t + 30.4 sin(wt + 0.6)  
 periode: 5 ben(t)= 2901.5 - 4.9 t + 36.0 sin(wt - 1.4)  
 periode: 6 ben(t)= 2888.7 - 4.9 t +139.7 sin(wt - 1.3)  
 periode: 7 ben(t)= 2896.0 - 4.9 t + 91.8 sin(wt - 0.0)  
 periode: 8 ben(t)= 2898.4 - 4.9 t + 48.0 sin(wt + 1.0)  
 periode: 9 ben(t)= 2891.3 - 4.9 t + 69.5 sin(wt + 0.4)  
 periode: 10 ben(t)= 2893.1 - 4.9 t + 74.4 sin(wt - 0.9)  
 periode: 11 ben(t)= 2899.2 - 4.9 t + 69.6 sin(wt + 0.0)  
 periode: 12 ben(t)= 2904.4 - 4.9 t + 59.0 sin(wt + 0.3)  
 periode: 13 ben(t)= 2905.7 - 4.9 t + 41.9 sin(wt + 0.1)  
 periode: 14 ben(t)= 2903.6 - 4.9 t + 23.1 sin(wt - 0.7)  
 periode: 15 ben(t)= 2900.5 - 4.9 t + 9.9 sin(wt + 0.9)  
 periode: 16 ben(t)= 2898.0 - 4.9 t + 11.1 sin(wt - 1.5)  
 periode: 17 ben(t)= 2896.5 - 4.9 t + 17.6 sin(wt - 0.2)  
 periode: 18 ben(t)= 2895.9 - 4.9 t + 23.1 sin(wt + 1.3)  
 periode: 19 ben(t)= 2896.1 - 4.9 t + 27.5 sin(wt - 0.6)  
 periode: 20 ben(t)= 2896.7 - 4.9 t + 31.3 sin(wt + 0.7)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
3	79.69	82.27	84.43	83.11	79.08	73.07	70.25	71.15	71.07	70.55	70.55	79.63	62.81	71.08	75.82	72.74	71.88	79.29	82.38	69.40	75.38	74.77
2	182.74	187.54	188.10	197.62	168.24	152.08	148.06	150.15	149.25	156.31	156.31	160.26	144.20	145.34	151.96	160.99	167.93	155.31	146.34	134.11	137.01	138.11
1	345.03	372.94	350.36	345.68	302.81	265.38	267.35	285.57	319.62	324.67	324.67	284.42	291.19	368.28	352.12	367.29	359.77	241.68	288.48	251.19	260.98	306.37
-1	1341.67	1399.32	1470.09	1298.47	1146.98	1250.63	1187.13	1522.97	1525.75	1372.55	1413.09	1318.93	1459.16	1506.70	1520.79	1513.95	1391.89	1307.90	1655.27	1613.78	1651.70	1499.65
-2	549.58	563.68	574.07	533.22	611.35	609.38	634.71	590.53	616.02	607.24	616.70	557.83	506.15	506.50	489.99	517.80	513.86	536.64	531.17	577.27	611.45	602.15
totaal	2498.71	2605.75	2667.05	2458.10	2308.46	2350.53	2307.50	2620.38	2681.71	2531.32	2581.33	2401.08	2463.53	2597.90	2590.68	2632.78	2505.32	2320.82	2703.63	2645.75	2736.53	2621.05

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3775.dat
uitvoerfiles:i:\scratch\boschloo\3775t.uit,i:\scratch\boschloo\3775t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -85.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

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```

trend:-4.53
amplitude:vrij
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3085.5 - 4.5 t
periode: 2  ben(t)= 3115.7 - 4.5 t
periode: 3  ben(t)= 3084.7 - 4.5 t + 45.6 sin(wt + 1.4)
periode: 4  ben(t)= 3085.8 - 4.5 t + 12.1 sin(wt - 0.3)
periode: 5  ben(t)= 3082.2 - 4.5 t + 55.3 sin(wt - 0.3)
periode: 6  ben(t)= 3084.4 - 4.5 t + 45.4 sin(wt + 0.8)
periode: 7  ben(t)= 3083.1 - 4.5 t +116.9 sin(wt - 0.4)
periode: 8  ben(t)= 3088.5 - 4.5 t +108.6 sin(wt + 1.5)
periode: 9  ben(t)= 3084.3 - 4.5 t + 76.9 sin(wt + 1.3)
periode: 10 ben(t)= 3081.9 - 4.5 t + 56.7 sin(wt - 0.5)
periode: 11 ben(t)= 3085.5 - 4.5 t + 64.9 sin(wt - 0.2)
periode: 12 ben(t)= 3092.7 - 4.5 t + 88.8 sin(wt - 0.1)
periode: 13 ben(t)= 3099.3 - 4.5 t +101.8 sin(wt - 0.4)
periode: 14 ben(t)= 3102.2 - 4.5 t +103.1 sin(wt - 1.1)
periode: 15 ben(t)= 3101.6 - 4.5 t + 99.5 sin(wt + 1.1)
periode: 16 ben(t)= 3099.2 - 4.5 t + 96.7 sin(wt - 0.3)
periode: 17 ben(t)= 3096.4 - 4.5 t + 96.4 sin(wt + 1.3)
periode: 18 ben(t)= 3093.6 - 4.5 t + 98.9 sin(wt - 0.4)
periode: 19 ben(t)= 3091.2 - 4.5 t +103.6 sin(wt + 0.9)
periode: 20 ben(t)= 3089.0 - 4.5 t +110.1 sin(wt - 1.0)

```

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85												
4	0.14	0.19	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00											
3	157.33	160.64	163.36	156.05	158.45	152.69	154.70	148.98	145.92	148.66	143.67	147.31	129.88	127.43	124.76	130.20	124.93	127.48	124.98	125.67	121.38	129.93	224.31	229.12	229.29	229.76	230.31	219.52	220.97	208.10	203.84	205.65	203.12	
2	206.92	192.15	193.21	191.29	195.86	194.15	199.88	203.94	197.94	183.71	185.69	422.92	399.13	371.32	374.36	348.11	342.95	362.85	297.59	339.43	362.94	357.36	375.24	333.67	323.81	359.42	413.22	428.86	328.06	320.71	335.34	305.56	346.56	
-1	1589.47	1498.33	1352.53	1380.94	1300.28	1249.42	1349.07	1356.76	1556.14	1472.13	1640.50	1407.46	1467.52	1534.90	1653.07	1567.25	1616.13	1392.46	1401.90	1457.79	1349.62	1457.38	622.13	607.92	600.10	553.61	610.47	536.92	682.33	623.27	685.80	644.37	615.00	
-2	612.11	528.06	526.23	521.33	525.17	530.73	545.02	547.75	595.11	590.66	592.37	totaal	3016.30	2895.33	2718.68	2694.72	2647.63	2501.50	2769.93	2634.71	2931.13	2833.75	2959.65	2749.04	2651.28	2705.57	2849.88	2831.70	2894.80	2592.89	2599.27	2711.84	2550.93	2711.92

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3800.dat  
 uitvoerfiles:i:\scratch\boschloo\3800t.uit,i:\scratch\boschloo\3800t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -78.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-4.21  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 2620.2 - 4.2 t  
 periode: 2 ben(t)= 2639.7 - 4.2 t  
 periode: 3 ben(t)= 2621.3 - 4.2 t + 24.2 sin(wt - 0.3)  
 periode: 4 ben(t)= 2622.1 - 4.2 t + 30.6 sin(wt + 0.6)  
 periode: 5 ben(t)= 2617.9 - 4.2 t + 48.8 sin(wt + 1.3)  
 periode: 6 ben(t)= 2623.8 - 4.2 t + 74.1 sin(wt - 0.1)  
 periode: 7 ben(t)= 2622.0 - 4.2 t +152.1 sin(wt - 1.2)  
 periode: 8 ben(t)= 2617.8 - 4.2 t +116.3 sin(wt + 0.9)  
 periode: 9 ben(t)= 2618.8 - 4.2 t + 54.3 sin(wt + 1.2)  
 periode: 10 ben(t)= 2620.5 - 4.2 t + 13.1 sin(wt + 0.1)  
 periode: 11 ben(t)= 2620.2 - 4.2 t + 70.5 sin(wt + 1.2)  
 periode: 12 ben(t)= 2618.3 - 4.2 t + 99.9 sin(wt - 1.5)  
 periode: 13 ben(t)= 2615.9 - 4.2 t +111.2 sin(wt + 1.4)  
 periode: 14 ben(t)= 2614.3 - 4.2 t +115.9 sin(wt + 0.9)  
 periode: 15 ben(t)= 2613.9 - 4.2 t +119.4 sin(wt - 0.0)  
 periode: 16 ben(t)= 2614.3 - 4.2 t +123.7 sin(wt - 1.2)  
 periode: 17 ben(t)= 2615.2 - 4.2 t +129.4 sin(wt + 0.5)  
 periode: 18 ben(t)= 2616.2 - 4.2 t +136.8 sin(wt - 1.0)  
 periode: 19 ben(t)= 2617.2 - 4.2 t +145.8 sin(wt + 0.3)  
 periode: 20 ben(t)= 2618.2 - 4.2 t +156.3 sin(wt - 1.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
2	80.52	91.78	90.30	88.58	87.90	86.71	85.56	73.77	69.00	66.44	71.25	74.59	54.89	61.15	58.92	60.38	60.28	71.07	75.04	55.29	58.12	67.75
1	334.03	341.69	377.81	364.69	343.17	299.89	310.46	269.37	236.83	234.34	277.77	318.37	241.07	249.81	243.96	312.87	309.31	298.39	281.51	237.09	257.58	295.37
-1	1430.33	1452.63	1510.35	1323.37	1324.70	1239.58	1110.20	1301.08	1349.86	1301.43	1472.89	1392.70	1351.13	1341.72	1455.27	1585.07	1636.91	1401.46	1421.46	1224.85	1223.78	1266.28
-2	574.00	569.58	609.54	553.76	553.63	553.86	580.59	608.08	621.40	623.84	602.89	586.80	526.91	524.89	543.90	539.33	566.50	566.88	564.59	580.51	582.05	566.16
totaal	2418.88	2455.68	2588.00	2330.41	2309.39	2180.05	2086.81	2252.30	2277.10	2226.05	2424.79	2372.46	2174.00	2177.57	2302.06	2497.65	2572.99	2337.81	2342.61	2097.74	2121.54	2195.55

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3825.dat  
 uitvoerfiles:i:\scratch\boschloo\3825t.uit,i:\scratch\boschloo\3825t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -110.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-3.89  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3564.8 - 3.9 t  
 periode: 2 ben(t)= 3547.0 - 3.9 t  
 periode: 3 ben(t)= 3565.7 - 3.9 t + 22.1 sin(wt - 0.3)  
 periode: 4 ben(t)= 3565.5 - 3.9 t + 13.3 sin(wt + 0.3)  
 periode: 5 ben(t)= 3557.4 - 3.9 t +100.5 sin(wt - 1.0)  
 periode: 6 ben(t)= 3572.3 - 3.9 t + 97.2 sin(wt - 0.9)  
 periode: 7 ben(t)= 3568.2 - 3.9 t + 81.6 sin(wt + 1.1)  
 periode: 8 ben(t)= 3557.3 - 3.9 t + 91.8 sin(wt - 0.1)  
 periode: 9 ben(t)= 3554.8 - 3.9 t + 76.8 sin(wt - 0.1)  
 periode: 10 ben(t)= 3560.3 - 3.9 t + 52.8 sin(wt - 1.4)  
 periode: 11 ben(t)= 3564.8 - 3.9 t + 35.1 sin(wt - 0.8)  
 periode: 12 ben(t)= 3564.7 - 3.9 t + 27.8 sin(wt - 1.3)  
 periode: 13 ben(t)= 3560.1 - 3.9 t + 41.8 sin(wt + 0.9)  
 periode: 14 ben(t)= 3554.4 - 3.9 t + 60.0 sin(wt + 0.1)  
 periode: 15 ben(t)= 3550.5 - 3.9 t + 72.1 sin(wt - 0.9)  
 periode: 16 ben(t)= 3549.2 - 3.9 t + 78.8 sin(wt + 1.0)  
 periode: 17 ben(t)= 3549.8 - 3.9 t + 82.5 sin(wt - 0.4)  
 periode: 18 ben(t)= 3551.7 - 3.9 t + 85.1 sin(wt + 1.1)  
 periode: 19 ben(t)= 3554.3 - 3.9 t + 87.5 sin(wt - 0.6)  
 periode: 20 ben(t)= 3557.5 - 3.9 t + 90.1 sin(wt + 0.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	64.12	66.50	54.61	73.95	77.74	79.08	54.69	55.31	57.87	53.83	49.93	62.37	56.53	56.28	53.76	61.51	56.53	60.85	60.71	58.88	58.38	71.34
3	231.13	234.22	225.13	237.87	240.07	245.46	253.12	255.77	257.16	258.31	254.46	262.92	248.17	244.62	241.76	242.75	241.72	237.17	240.53	235.10	237.35	239.00
2	300.82	308.91	309.02	314.08	318.16	326.65	326.72	328.50	327.06	328.57	308.01	320.01	282.65	280.68	282.70	285.16	286.62	290.74	296.66	295.50	300.75	304.41
1	531.39	532.18	532.88	538.50	518.93	497.68	463.79	496.55	431.24	415.19	438.19	508.60	420.67	435.60	435.46	432.17	471.99	485.93	460.57	466.51	466.01	497.92
-1	1760.42	1721.65	1720.49	1598.54	1566.92	1551.10	1474.08	1353.75	1401.40	1363.50	1729.67	1648.30	1501.94	1535.83	1401.46	1686.91	1659.96	1645.00	1541.15	1559.30	1562.73	1563.08
-2	599.25	597.52	614.97	630.21	631.58	701.80	616.17	628.63	637.10	686.83	696.17	648.30	563.45	557.27	578.90	612.03	598.87	588.83	605.75	618.87	594.01	583.17
totaal	3487.13	3460.98	3457.10	3393.15	3353.40	3401.78	3188.58	3118.50	3111.83	3106.23	3476.43	3450.50	3073.40	3110.27	2994.03	3320.52	3315.68	3308.53	3205.38	3234.15	3219.23	3258.93

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3850.dat
uitvoerfiles:i:\scratch\boschloo\3850t.uit,i:\scratch\boschloo\3850t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -105.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-3.57
amplitude:vrij
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3419.1 - 3.6 t
periode: 2  ben(t)= 3405.4 - 3.6 t
periode: 3  ben(t)= 3418.0 - 3.6 t + 34.4 sin(wt + 0.3)
periode: 4  ben(t)= 3417.5 - 3.6 t + 29.5 sin(wt + 1.4)
periode: 5  ben(t)= 3420.1 - 3.6 t + 44.5 sin(wt + 0.3)
periode: 6  ben(t)= 3421.9 - 3.6 t + 36.7 sin(wt - 1.3)
periode: 7  ben(t)= 3422.3 - 3.6 t + 76.3 sin(wt + 0.3)
periode: 8  ben(t)= 3408.4 - 3.6 t +128.5 sin(wt - 0.6)
periode: 9  ben(t)= 3402.2 - 3.6 t +129.6 sin(wt - 0.1)
periode: 10 ben(t)= 3410.5 - 3.6 t +110.1 sin(wt - 0.8)
periode: 11 ben(t)= 3419.1 - 3.6 t +101.9 sin(wt + 0.8)
periode: 12 ben(t)= 3420.7 - 3.6 t + 94.4 sin(wt - 1.5)
periode: 13 ben(t)= 3414.4 - 3.6 t + 99.5 sin(wt - 1.1)
periode: 14 ben(t)= 3405.1 - 3.6 t +118.4 sin(wt - 1.4)
periode: 15 ben(t)= 3398.2 - 3.6 t +136.2 sin(wt + 1.0)
periode: 16 ben(t)= 3395.2 - 3.6 t +148.7 sin(wt - 0.1)
periode: 17 ben(t)= 3395.6 - 3.6 t +157.7 sin(wt - 1.5)
periode: 18 ben(t)= 3398.2 - 3.6 t +165.5 sin(wt - 0.0)
periode: 19 ben(t)= 3402.2 - 3.6 t +173.4 sin(wt + 1.3)
periode: 20 ben(t)= 3407.2 - 3.6 t +181.9 sin(wt - 0.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	42.49	32.43	28.19	33.32	37.05	39.15	36.82	36.30	38.01	32.64	37.75	38.36	33.31	34.32	28.23	32.49	33.58	31.46	25.70	29.23	29.78	33.87
3	206.31	208.10	209.16	209.70	213.11	216.48	225.62	225.70	226.64	229.38	230.20	233.36	206.93	201.25	197.03	195.62	195.71	192.22	190.37	188.31	188.00	190.85
2	264.39	269.93	271.73	274.13	279.44	288.02	289.85	291.03	291.77	296.92	270.45	274.28	235.62	237.29	229.42	231.13	229.46	227.53	225.11	227.27	236.64	243.41
1	510.99	492.63	480.66	525.58	515.98	484.89	419.49	478.73	459.53	428.36	399.98	426.96	376.28	383.71	379.01	346.46	345.51	392.00	411.99	447.88	452.29	475.90
-1	1835.84	1597.10	1785.26	1816.50	1599.17	1502.42	1448.87	1553.00	1513.67	1459.20	1619.64	1526.63	1602.42	1531.93	1362.73	1385.37	1463.70	1780.75	1682.94	1565.78	1640.24	1696.83
-2	628.91	593.75	611.59	660.85	655.83	713.17	671.55	651.00	616.33	600.20	653.31	643.98	571.58	582.62	512.81	596.75	618.39	631.00	634.45	624.13	651.38	627.67
totaal	3488.93	3193.95	3386.59	3520.08	3300.58	3244.13	3092.19	3235.78	3145.95	3046.70	3211.33	3143.57	3026.15	2971.11	2709.23	2787.83	2886.34	3254.95	3170.56	3082.60	3198.33	3268.53

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3875.dat  
 uitvoerfiles:i:\scratch\boschloo\3875t.uit,i:\scratch\boschloo\3875t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -155.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-3.25  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4128.1 - 3.3 t  
 periode: 2 ben(t)= 4141.4 - 3.3 t  
 periode: 3 ben(t)= 4128.9 - 3.3 t + 37.4 sin(wt + 1.5)  
 periode: 4 ben(t)= 4130.2 - 3.3 t + 47.9 sin(wt - 0.0)  
 periode: 5 ben(t)= 4131.3 - 3.3 t + 78.1 sin(wt + 1.2)  
 periode: 6 ben(t)= 4126.1 - 3.3 t + 27.1 sin(wt - 1.3)  
 periode: 7 ben(t)= 4129.7 - 3.3 t + 97.7 sin(wt - 0.5)  
 periode: 8 ben(t)= 4120.7 - 3.3 t +117.9 sin(wt - 1.1)  
 periode: 9 ben(t)= 4116.9 - 3.3 t + 88.5 sin(wt - 0.4)  
 periode: 10 ben(t)= 4123.6 - 3.3 t + 73.8 sin(wt - 0.5)  
 periode: 11 ben(t)= 4128.1 - 3.3 t +112.6 sin(wt + 1.3)  
 periode: 12 ben(t)= 4124.9 - 3.3 t +143.3 sin(wt - 1.0)  
 periode: 13 ben(t)= 4115.0 - 3.3 t +168.4 sin(wt - 0.9)  
 periode: 14 ben(t)= 4104.6 - 3.3 t +189.4 sin(wt - 1.3)  
 periode: 15 ben(t)= 4098.6 - 3.3 t +203.1 sin(wt + 0.9)  
 periode: 16 ben(t)= 4097.3 - 3.3 t +211.7 sin(wt - 0.2)  
 periode: 17 ben(t)= 4099.4 - 3.3 t +218.7 sin(wt + 1.5)  
 periode: 18 ben(t)= 4103.4 - 3.3 t +226.4 sin(wt - 0.2)  
 periode: 19 ben(t)= 4108.7 - 3.3 t +235.7 sin(wt + 1.2)  
 periode: 20 ben(t)= 4114.7 - 3.3 t +247.1 sin(wt - 0.8)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	116.98	118.16	116.16	118.78	120.46	120.04	119.65	117.76	96.33	99.75	111.73	115.22	111.28	96.80	127.48	97.67	108.28	111.63	122.85	131.97	117.70	121.24
3	259.45	261.73	258.90	259.70	264.08	262.30	261.64	262.56	238.54	239.06	268.80	264.94	256.57	231.65	269.20	220.64	246.04	251.94	254.44	272.03	254.23	255.81
2	397.80	402.50	402.24	405.92	413.50	417.87	414.29	415.46	380.02	377.99	398.52	393.63	367.04	351.70	396.31	352.02	375.60	371.82	370.57	390.35	380.18	378.12
1	663.94	621.92	613.60	666.40	682.41	653.03	606.33	665.36	622.17	571.98	554.73	583.53	541.04	567.31	576.39	551.48	546.38	533.20	536.46	615.00	566.67	578.71
-1	1894.29	1668.84	1949.04	1919.88	1893.75	1739.64	1660.24	1854.56	1851.38	1759.50	1911.77	1758.67	1712.71	1763.88	1757.85	1724.89	1604.68	1895.14	2061.15	2018.92	2045.83	2014.88
-2	684.21	608.49	660.75	697.01	779.08	802.19	747.02	674.88	736.87	645.50	623.85	668.00	635.02	646.83	631.25	664.61	669.92	707.29	709.25	735.56	765.83	730.27
totaal	4016.67	3681.63	4000.70	4067.69	4153.28	3995.07	3809.17	3990.58	3925.32	3693.79	3869.40	3783.99	3623.67	3658.17	3758.49	3611.31	3550.90	3871.03	4054.72	4163.84	4130.45	4079.03

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3900.dat  
 uitvoerfiles:i:\scratch\boschloo\3900t.uit,i:\scratch\boschloo\3900t.prn  
 i:\scratch\boschloo\tfoot.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -130.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-2.93  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3644.7 - 2.9 t  
 periode: 2 ben(t)= 3635.1 - 2.9 t  
 periode: 3 ben(t)= 3644.0 - 2.9 t + 27.3 sin(wt - 1.5)  
 periode: 4 ben(t)= 3647.2 - 2.9 t + 90.5 sin(wt - 0.3)  
 periode: 5 ben(t)= 3643.3 - 2.9 t + 19.4 sin(wt - 0.6)  
 periode: 6 ben(t)= 3639.4 - 2.9 t + 73.3 sin(wt - 0.6)  
 periode: 7 ben(t)= 3640.6 - 2.9 t +115.1 sin(wt + 1.3)  
 periode: 8 ben(t)= 3650.6 - 2.9 t + 83.0 sin(wt + 0.2)  
 periode: 9 ben(t)= 3648.2 - 2.9 t + 27.1 sin(wt - 0.1)  
 periode: 10 ben(t)= 3644.7 - 2.9 t + 42.5 sin(wt + 0.3)  
 periode: 11 ben(t)= 3644.7 - 2.9 t + 75.2 sin(wt + 1.3)  
 periode: 12 ben(t)= 3646.2 - 2.9 t + 86.6 sin(wt - 1.5)  
 periode: 13 ben(t)= 3647.0 - 2.9 t + 86.9 sin(wt + 1.5)  
 periode: 14 ben(t)= 3646.6 - 2.9 t + 85.1 sin(wt + 1.0)  
 periode: 15 ben(t)= 3645.4 - 2.9 t + 84.5 sin(wt + 0.2)  
 periode: 16 ben(t)= 3644.3 - 2.9 t + 85.8 sin(wt - 1.0)  
 periode: 17 ben(t)= 3643.5 - 2.9 t + 88.8 sin(wt + 0.8)  
 periode: 18 ben(t)= 3643.2 - 2.9 t + 93.2 sin(wt - 0.8)  
 periode: 19 ben(t)= 3643.2 - 2.9 t + 98.8 sin(wt + 0.6)  
 periode: 20 ben(t)= 3643.5 - 2.9 t +105.3 sin(wt - 1.3)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	71.33	73.46	75.83	73.92	52.17	53.56	52.41	55.83	52.75	58.17	55.46	57.42	57.65	57.05	56.69	54.59	63.02	65.26	59.67	66.50	66.06	66.27
3	198.53	204.86	211.25	204.80	187.35	190.28	196.13	204.55	204.54	219.69	220.97	218.01	219.85	216.26	212.01	213.15	221.48	221.67	216.75	218.84	214.37	215.00
2	350.26	353.88	354.32	349.92	324.39	325.79	327.08	331.58	332.56	341.46	327.20	331.47	319.48	319.54	329.73	321.95	332.34	333.06	316.89	322.20	315.48	315.29
1	527.36	539.07	484.27	530.05	485.58	532.23	550.77	553.52	533.66	478.83	441.27	493.34	512.25	515.80	545.54	503.84	531.70	426.26	432.60	451.14	448.15	475.57
-1	1711.57	1535.32	1520.11	1636.51	1581.31	1622.60	1704.18	1783.19	1695.35	1598.99	1621.61	1779.15	1616.45	1657.25	1679.44	1639.95	1620.19	1464.12	1649.28	1813.94	1668.05	1717.06
-2	701.43	642.52	648.38	678.83	731.78	710.23	777.53	751.81	736.30	604.37	598.74	627.46	603.33	626.97	569.89	637.30	631.14	619.94	680.71	743.15	756.46	739.39
totaal	3560.48	3349.11	3294.18	3474.03	3362.57	3434.69	3608.10	3680.47	3555.17	3301.52	3265.24	3506.85	3329.00	3392.87	3393.30	3370.78	3399.87	3130.29	3355.92	3615.78	3468.58	3528.57

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3925.dat
uitvoerfiles:i:\scratch\boschloo\3925t.uit,i:\scratch\boschloo\3925t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -168.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-2.61
amplitude:vrij
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4371.9 - 2.6 t
periode: 2  ben(t)= 4414.6 - 2.6 t
periode: 3  ben(t)= 4373.3 - 2.6 t + 28.8 sin(wt - 0.5)
periode: 4  ben(t)= 4371.7 - 2.6 t +131.3 sin(wt - 0.8)
periode: 5  ben(t)= 4371.5 - 2.6 t + 31.6 sin(wt + 0.8)
periode: 6  ben(t)= 4375.5 - 2.6 t + 67.6 sin(wt + 1.2)
periode: 7  ben(t)= 4372.4 - 2.6 t +126.6 sin(wt - 0.8)
periode: 8  ben(t)= 4375.3 - 2.6 t +112.8 sin(wt + 0.8)
periode: 9  ben(t)= 4379.7 - 2.6 t + 85.9 sin(wt + 0.6)
periode: 10 ben(t)= 4376.3 - 2.6 t + 52.3 sin(wt - 1.0)
periode: 11 ben(t)= 4371.9 - 2.6 t + 46.6 sin(wt - 0.9)
periode: 12 ben(t)= 4371.0 - 2.6 t + 58.3 sin(wt - 1.1)
periode: 13 ben(t)= 4374.4 - 2.6 t + 69.9 sin(wt + 1.5)
periode: 14 ben(t)= 4379.4 - 2.6 t + 82.4 sin(wt + 0.7)
periode: 15 ben(t)= 4383.1 - 2.6 t + 92.9 sin(wt - 0.4)
periode: 16 ben(t)= 4384.8 - 2.6 t +100.9 sin(wt + 1.5)
periode: 17 ben(t)= 4384.6 - 2.6 t +107.5 sin(wt + 0.1)
periode: 18 ben(t)= 4383.2 - 2.6 t +113.9 sin(wt - 1.5)
periode: 19 ben(t)= 4381.0 - 2.6 t +120.7 sin(wt - 0.1)
periode: 20 ben(t)= 4378.3 - 2.6 t +128.2 sin(wt + 1.1)

```

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	85.16	87.36	92.56	87.87	97.31	99.70	103.56	103.34	106.11	108.33	114.22	113.03	115.10	119.29	115.37	127.54	123.30	119.27	120.86	122.69	122.69	126.32
3	338.48	339.03	345.00	347.79	343.74	353.66	359.22	355.27	360.43	363.28	362.43	364.93	372.97	379.05	367.79	378.34	379.66	381.17	381.49	382.38	382.38	382.64
2	488.24	489.38	488.53	487.71	486.49	488.53	493.37	492.04	494.59	496.75	487.50	491.26	496.83	501.09	503.00	512.95	507.29	503.73	498.70	493.54	493.54	494.25
1	706.95	675.22	689.46	668.77	717.81	722.59	770.62	740.08	715.87	672.05	676.68	685.65	737.82	766.49	687.54	709.96	722.28	670.16	691.32	703.39	719.00	724.19
-1	1772.77	1510.40	1823.21	1709.72	1968.88	1736.41	1873.75	1777.67	1866.14	1698.20	1754.14	2140.29	1978.42	1861.68	1715.66	1757.57	1931.93	1713.37	1618.00	1934.78	1873.93	1750.33
-2	663.63	578.14	634.76	671.47	777.83	722.97	827.25	750.50	792.12	633.77	633.40	671.78	661.06	663.67	610.84	667.00	682.73	695.48	733.50	726.83	707.67	732.67
totaal	4055.22	3679.53	4073.52	3973.34	4392.05	4123.87	4427.77	4218.90	4335.27	3972.38	4028.38	4466.94	4362.20	4291.27	4000.20	4153.37	4347.18	4083.18	4043.87	4363.61	4299.21	4210.39



source program: SIRENE  
 stuurprogramma: a:\stuur\stuural.stu  
 sourcefile: b:\invoer\r3950.dat  
 uitvoerfiles: i:\scratch\boschloo\3950t.uit, i:\scratch\boschloo\3950t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -195.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend: -2.29  
 amplitude: vrij  
 fase/jr opgang: vrij

periode: 1 ben(t)= 4687.4 - 2.3 t  
 periode: 2 ben(t)= 4718.6 - 2.3 t  
 periode: 3 ben(t)= 4687.6 - 2.3 t + 10.9 sin(wt + 1.5)  
 periode: 4 ben(t)= 4685.4 - 2.3 t + 32.1 sin(wt + 1.0)  
 periode: 5 ben(t)= 4687.0 - 2.3 t + 102.3 sin(wt + 0.7)  
 periode: 6 ben(t)= 4686.5 - 2.3 t + 70.7 sin(wt + 0.4)  
 periode: 7 ben(t)= 4685.5 - 2.3 t + 44.5 sin(wt + 1.0)  
 periode: 8 ben(t)= 4692.7 - 2.3 t + 65.7 sin(wt - 0.7)  
 periode: 9 ben(t)= 4694.1 - 2.3 t + 57.1 sin(wt - 0.6)  
 periode: 10 ben(t)= 4690.1 - 2.3 t + 39.0 sin(wt + 1.2)  
 periode: 11 ben(t)= 4687.4 - 2.3 t + 20.7 sin(wt - 1.1)  
 periode: 12 ben(t)= 4688.0 - 2.3 t + 11.3 sin(wt + 1.2)  
 periode: 13 ben(t)= 4691.2 - 2.3 t + 24.6 sin(wt + 0.3)  
 periode: 14 ben(t)= 4694.7 - 2.3 t + 36.6 sin(wt - 0.4)  
 periode: 15 ben(t)= 4696.7 - 2.3 t + 43.0 sin(wt - 1.4)  
 periode: 16 ben(t)= 4697.2 - 2.3 t + 45.6 sin(wt + 0.5)  
 periode: 17 ben(t)= 4696.6 - 2.3 t + 46.6 sin(wt - 0.9)  
 periode: 18 ben(t)= 4695.2 - 2.3 t + 46.9 sin(wt + 0.6)  
 periode: 19 ben(t)= 4693.5 - 2.3 t + 47.3 sin(wt - 1.2)  
 periode: 20 ben(t)= 4691.6 - 2.3 t + 47.8 sin(wt - 0.0)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	83.32	82.72	83.45	81.93	79.32	84.91	87.41	91.23	91.36	94.57	104.02	109.03	108.39	113.44	96.62	124.99	121.63	127.21	140.63	130.50	149.75	151.71
3	369.15	372.28	368.13	366.50	362.57	356.41	356.87	358.70	363.76	367.25	363.01	361.94	351.95	355.13	341.26	359.36	358.13	357.79	367.32	360.99	379.72	387.22
2	575.29	573.18	560.45	558.08	561.09	557.82	566.39	574.87	585.09	586.60	585.95	584.48	576.18	579.31	566.35	594.10	598.00	590.91	593.69	579.16	596.56	600.19
1	789.64	800.02	801.16	761.06	784.68	823.97	838.13	856.25	855.62	808.04	824.96	809.88	868.18	899.25	820.45	866.08	871.94	822.33	825.18	804.54	885.19	855.00
-1	1741.88	1817.66	1922.68	1706.83	1848.46	1801.25	1976.59	1919.04	1979.71	1815.11	1862.21	2030.04	2159.13	2033.28	1975.67	2014.72	2057.67	2066.17	2078.39	1946.87	2005.44	2019.22
-2	715.12	692.91	668.61	598.99	723.99	728.75	728.75	752.94	768.17	761.57	652.33	684.07	666.88	667.22	660.88	682.78	687.63	704.93	714.66	682.88	643.00	701.33
totaal	4274.40	4338.78	4404.49	4073.39	4360.12	4353.11	4578.31	4568.26	4637.13	4361.30	4392.48	4579.44	4730.70	4647.63	4461.23	4642.02	4695.00	4669.35	4719.86	4504.93	4659.65	4714.68

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3975.dat  
 uitvoerfiles:i:\scratch\boschloo\3975t.uit,i:\scratch\boschloo\3975t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -173.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-1.97  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4440.1 - 2.0 t  
 periode: 2 ben(t)= 4395.4 - 2.0 t  
 periode: 3 ben(t)= 4438.7 - 2.0 t + 91.1 sin(wt + 1.4)  
 periode: 4 ben(t)= 4439.3 - 2.0 t + 64.5 sin(wt - 1.0)  
 periode: 5 ben(t)= 4443.7 - 2.0 t + 52.8 sin(wt - 0.6)  
 periode: 6 ben(t)= 4443.3 - 2.0 t + 43.0 sin(wt - 1.4)  
 periode: 7 ben(t)= 4438.8 - 2.0 t + 95.9 sin(wt - 0.6)  
 periode: 8 ben(t)= 4449.7 - 2.0 t +159.1 sin(wt - 1.2)  
 periode: 9 ben(t)= 4455.0 - 2.0 t +134.9 sin(wt - 0.7)  
 periode: 10 ben(t)= 4445.5 - 2.0 t + 63.4 sin(wt - 1.4)  
 periode: 11 ben(t)= 4440.1 - 2.0 t + 62.6 sin(wt + 1.4)  
 periode: 12 ben(t)= 4446.7 - 2.0 t +129.0 sin(wt - 0.7)  
 periode: 13 ben(t)= 4462.9 - 2.0 t +192.2 sin(wt - 0.6)  
 periode: 14 ben(t)= 4478.8 - 2.0 t +237.1 sin(wt - 1.1)  
 periode: 15 ben(t)= 4487.4 - 2.0 t +261.4 sin(wt + 1.2)  
 periode: 16 ben(t)= 4488.7 - 2.0 t +273.2 sin(wt - 0.0)  
 periode: 17 ben(t)= 4484.9 - 2.0 t +280.5 sin(wt - 1.5)  
 periode: 18 ben(t)= 4478.2 - 2.0 t +287.6 sin(wt + 0.0)  
 periode: 19 ben(t)= 4469.8 - 2.0 t +296.5 sin(wt + 1.4)  
 periode: 20 ben(t)= 4460.5 - 2.0 t +307.9 sin(wt - 0.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	161.67	164.81	168.66	176.37	191.45	198.10	201.39	197.66	194.13	195.18	207.47	217.40	224.53	219.12	202.49	210.88	228.34	230.71	123.47	197.35	148.17	160.79
3	423.00	418.46	409.76	405.70	407.39	390.94	389.72	388.49	383.25	386.83	389.97	390.19	393.69	397.46	391.18	395.52	401.57	403.77	290.87	365.35	308.82	326.40
2	580.83	574.26	560.17	559.36	559.50	532.29	532.87	539.76	553.83	556.84	561.06	564.62	544.66	545.84	555.04	564.37	570.81	569.21	450.28	526.20	453.59	471.05
1	727.77	710.30	679.82	695.07	669.93	647.93	697.45	755.85	767.21	753.91	745.00	713.95	713.66	778.18	740.45	742.95	790.80	732.30	608.48	703.00	577.89	632.74
-1	1819.03	1726.80	1496.26	1673.35	1627.58	1573.50	1740.70	1810.78	1909.51	1932.55	1868.37	1886.44	2096.05	1971.12	1812.76	1997.98	1775.82	1811.93	1765.20	1796.11	1540.04	1788.18
-2	715.97	662.70	642.17	686.34	760.25	655.00	683.67	690.22	749.85	664.75	630.43	655.78	634.87	635.38	715.28	716.77	639.12	692.16	678.94	674.53	576.78	678.63
totaal	4428.28	4257.33	3956.84	4196.18	4216.10	3997.75	4245.79	4382.75	4557.77	4490.06	4402.30	4428.38	4607.45	4547.10	4417.19	4628.48	4406.45	4440.07	3917.25	4262.53	3605.28	4057.79

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4000.dat
uitvoerfiles:i:\scratch\boschloo\4000t.uit,i:\scratch\boschloo\4000t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -135.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

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trend:-1.65
amplitude:vrij
fase/jr opgang:vrij

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periode: 1  ben(t)= 3849.6 - 1.7 t
periode: 2  ben(t)= 3833.7 - 1.7 t
periode: 3  ben(t)= 3847.8 - 1.7 t + 47.2 sin(wt - 1.1)
periode: 4  ben(t)= 3850.1 - 1.7 t + 8.4 sin(wt + 0.5)
periode: 5  ben(t)= 3852.4 - 1.7 t + 49.7 sin(wt + 1.5)
periode: 6  ben(t)= 3851.3 - 1.7 t + 86.8 sin(wt + 0.3)
periode: 7  ben(t)= 3851.3 - 1.7 t +136.1 sin(wt - 1.2)
periode: 8  ben(t)= 3848.2 - 1.7 t + 94.6 sin(wt + 1.0)
periode: 9  ben(t)= 3850.7 - 1.7 t + 46.8 sin(wt - 1.6)
periode: 10 ben(t)= 3851.0 - 1.7 t + 16.3 sin(wt - 1.1)
periode: 11 ben(t)= 3849.6 - 1.7 t + 47.4 sin(wt + 1.1)
periode: 12 ben(t)= 3849.1 - 1.7 t + 67.2 sin(wt - 1.4)
periode: 13 ben(t)= 3850.5 - 1.7 t + 75.4 sin(wt - 1.4)
periode: 14 ben(t)= 3853.0 - 1.7 t + 80.6 sin(wt + 1.3)
periode: 15 ben(t)= 3855.0 - 1.7 t + 85.6 sin(wt + 0.5)
periode: 16 ben(t)= 3856.1 - 1.7 t + 90.7 sin(wt - 0.6)
periode: 17 ben(t)= 3856.2 - 1.7 t + 96.1 sin(wt + 1.1)
periode: 18 ben(t)= 3855.6 - 1.7 t +102.2 sin(wt - 0.5)
periode: 19 ben(t)= 3854.5 - 1.7 t +109.2 sin(wt + 0.8)
periode: 20 ben(t)= 3853.1 - 1.7 t +117.0 sin(wt - 1.1)

```

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	20.49	22.51	34.14	39.23	44.96	46.99	44.97	46.20	44.36	46.12	51.15	67.30	48.73	46.45	50.58	66.08	57.07	70.47	81.61	74.03	99.68	104.01
3	351.06	358.17	365.53	364.87	367.41	370.01	371.08	370.14	370.53	376.17	376.34	380.76	368.30	365.11	362.52	367.32	369.64	374.46	380.54	370.37	372.70	374.60
2	423.14	421.35	429.35	429.06	430.27	428.05	428.82	429.99	434.08	440.11	438.87	442.68	403.60	406.42	413.01	421.35	422.49	423.44	421.38	409.09	410.25	413.47
1	565.01	570.17	579.69	640.55	556.70	545.38	550.77	578.03	584.66	629.80	614.45	571.54	514.94	571.52	594.37	567.89	586.50	550.75	542.65	538.79	509.60	542.63
-1	1655.00	1728.93	1576.80	1771.72	1649.96	1454.87	1611.75	1518.40	1714.13	1843.04	1723.66	1655.93	1728.62	1752.74	1725.35	1825.85	1789.94	1692.57	1615.83	1624.10	1541.80	1537.47
-2	661.50	721.32	637.71	683.20	665.38	619.61	636.50	594.46	653.55	623.21	570.82	596.28	586.71	590.83	670.53	674.80	639.01	697.77	667.92	638.65	609.70	643.82
totaal	3676.20	3822.45	3623.23	3928.63	3714.69	3464.90	3643.90	3537.23	3801.31	3958.45	3775.27	3714.49	3650.90	3733.07	3816.35	3923.30	3864.65	3809.45	3709.93	3655.03	3543.73	3616.00

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4025.dat  
 uitvoerfiles:i:\scratch\boschloo\4025t.uit,i:\scratch\boschloo\4025t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -171.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-1.33  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4547.5 - 1.3 t  
 periode: 2 ben(t)= 4562.4 - 1.3 t  
 periode: 3 ben(t)= 4547.3 - 1.3 t + 20.6 sin(wt + 0.8)  
 periode: 4 ben(t)= 4545.8 - 1.3 t + 30.9 sin(wt + 1.2)  
 periode: 5 ben(t)= 4545.2 - 1.3 t + 74.6 sin(wt + 0.2)  
 periode: 6 ben(t)= 4551.3 - 1.3 t + 50.7 sin(wt - 1.4)  
 periode: 7 ben(t)= 4548.6 - 1.3 t + 23.7 sin(wt + 0.9)  
 periode: 8 ben(t)= 4545.9 - 1.3 t + 47.0 sin(wt + 0.7)  
 periode: 9 ben(t)= 4544.0 - 1.3 t + 61.0 sin(wt + 0.9)  
 periode: 10 ben(t)= 4544.4 - 1.3 t + 62.1 sin(wt - 0.3)  
 periode: 11 ben(t)= 4547.5 - 1.3 t + 58.4 sin(wt + 0.4)  
 periode: 12 ben(t)= 4553.2 - 1.3 t + 65.2 sin(wt + 0.4)  
 periode: 13 ben(t)= 4559.1 - 1.3 t + 74.4 sin(wt + 0.0)  
 periode: 14 ben(t)= 4562.6 - 1.3 t + 77.4 sin(wt - 0.7)  
 periode: 15 ben(t)= 4563.2 - 1.3 t + 75.6 sin(wt + 1.5)  
 periode: 16 ben(t)= 4561.9 - 1.3 t + 72.6 sin(wt + 0.2)  
 periode: 17 ben(t)= 4559.7 - 1.3 t + 70.6 sin(wt - 1.3)  
 periode: 18 ben(t)= 4557.3 - 1.3 t + 70.1 sin(wt + 0.1)  
 periode: 19 ben(t)= 4554.8 - 1.3 t + 71.1 sin(wt + 1.4)  
 periode: 20 ben(t)= 4552.3 - 1.3 t + 73.6 sin(wt - 0.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	127.13	140.72	150.40	152.59	167.21	173.95	182.24	186.72	192.64	181.86	200.19	210.17	209.29	196.56	212.75	234.16	226.36	238.19	212.81	221.29	225.40	212.03
3	405.67	411.87	411.35	417.07	418.80	422.74	423.67	427.23	426.76	426.44	430.63	436.02	420.68	414.79	412.33	408.78	409.36	408.93	378.15	409.15	411.44	381.56
2	548.53	549.25	544.02	544.46	544.27	545.76	549.97	556.59	547.54	547.61	546.61	554.98	522.09	520.17	520.31	525.03	523.71	524.39	497.56	519.98	515.36	489.25
1	835.77	800.01	757.13	770.82	806.37	784.70	797.72	782.08	791.44	776.96	781.90	793.15	750.82	746.42	770.61	747.45	732.11	748.49	678.37	718.49	717.49	675.38
-1	2130.01	2008.95	1717.08	1788.85	1909.79	1844.83	1862.52	1694.30	1974.97	2053.83	1926.58	1994.64	1833.75	1817.50	1810.16	1787.56	1750.79	1793.33	1867.05	1780.92	1791.99	1757.75
-2	703.39	758.76	767.39	739.22	779.00	686.08	711.39	637.16	683.33	645.78	655.55	673.30	665.75	639.92	712.96	702.59	655.57	657.39	713.63	651.22	625.36	631.71
totaal	4750.50	4669.55	4347.36	4413.00	4625.45	4458.07	4527.50	4284.08	4616.68	4632.48	4541.46	4662.26	4402.37	4335.35	4439.11	4405.57	4297.89	4370.71	4347.56	4301.04	4287.04	4147.69

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4050.dat  
 uitvoerfiles:i:\scratch\boschloo\4050t.uit,i:\scratch\boschloo\4050t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -169.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-1.01  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3880.2 - 1.0 t  
 periode: 2 ben(t)= 3876.2 - 1.0 t  
 periode: 3 ben(t)= 3876.3 - 1.0 t + 94.5 sin(wt - 0.1)  
 periode: 4 ben(t)= 3882.7 - 1.0 t + 38.9 sin(wt + 0.7)  
 periode: 5 ben(t)= 3872.4 - 1.0 t +147.0 sin(wt + 1.4)  
 periode: 6 ben(t)= 3878.7 - 1.0 t +111.3 sin(wt + 0.3)  
 periode: 7 ben(t)= 3877.1 - 1.0 t + 90.4 sin(wt - 0.1)  
 periode: 8 ben(t)= 3881.6 - 1.0 t +127.9 sin(wt + 1.3)  
 periode: 9 ben(t)= 3874.3 - 1.0 t +104.6 sin(wt + 1.0)  
 periode: 10 ben(t)= 3874.6 - 1.0 t + 66.7 sin(wt - 1.0)  
 periode: 11 ben(t)= 3880.2 - 1.0 t + 98.4 sin(wt - 1.0)  
 periode: 12 ben(t)= 3884.1 - 1.0 t +141.3 sin(wt - 1.0)  
 periode: 13 ben(t)= 3882.3 - 1.0 t +163.8 sin(wt - 1.4)  
 periode: 14 ben(t)= 3876.6 - 1.0 t +180.9 sin(wt + 1.0)  
 periode: 15 ben(t)= 3870.9 - 1.0 t +198.1 sin(wt - 0.0)  
 periode: 16 ben(t)= 3867.4 - 1.0 t +215.7 sin(wt - 1.3)  
 periode: 17 ben(t)= 3866.2 - 1.0 t +233.9 sin(wt + 0.4)  
 periode: 18 ben(t)= 3866.9 - 1.0 t +253.4 sin(wt - 1.2)  
 periode: 19 ben(t)= 3869.0 - 1.0 t +274.6 sin(wt + 0.2)  
 periode: 20 ben(t)= 3872.1 - 1.0 t +297.9 sin(wt + 1.4)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	123.46	81.11	71.19	44.99	15.63	50.96	56.10	61.40	58.85	57.52	58.44	62.00	65.44	63.50	65.71	71.42	70.49	67.94	72.51	69.74	69.26	52.82
3	292.30	239.29	225.89	182.56	81.06	180.10	190.09	192.66	177.80	178.24	183.52	188.21	197.83	196.58	197.21	205.11	212.74	218.01	235.66	236.86	234.83	220.30
2	471.12	418.73	416.15	369.55	255.30	345.61	370.21	376.34	368.74	381.91	374.98	379.51	388.55	391.37	393.75	402.80	411.66	416.44	424.43	418.64	416.65	392.97
1	792.52	716.73	681.24	615.45	519.26	602.18	622.45	572.47	571.48	548.31	574.43	602.49	578.43	583.97	595.31	602.37	581.78	594.27	587.18	554.02	545.38	553.11
-1	2153.59	1981.84	1969.41	1787.75	1786.63	1761.63	1957.60	1841.79	1757.90	1859.97	1803.27	2039.83	2007.90	1769.29	1852.23	1994.42	1824.48	1951.84	1772.28	1820.67	1642.58	1774.20
-2	677.91	700.19	764.45	769.49	745.37	707.50	709.13	672.87	628.48	606.85	641.73	660.68	653.29	613.46	674.67	707.80	732.39	681.40	630.47	670.91	603.78	684.25
totaal	4510.91	4137.90	4128.33	3769.80	3403.25	3647.98	3905.59	3717.52	3563.24	3632.81	3636.38	3932.71	3891.43	3618.18	3778.87	3983.91	3833.53	3929.90	3722.52	3770.83	3512.47	3677.65

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4075.dat  
 uitvoerfiles:i:\scratch\boschloo\4075t.uit,i:\scratch\boschloo\4075t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -215.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-0.69  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4190.1 - 0.7 t  
 periode: 2 ben(t)= 4221.4 - 0.7 t  
 periode: 3 ben(t)= 4189.6 - 0.7 t + 32.8 sin(wt + 1.4)  
 periode: 4 ben(t)= 4189.9 - 0.7 t + 12.2 sin(wt - 0.6)  
 periode: 5 ben(t)= 4186.4 - 0.7 t + 69.4 sin(wt + 1.4)  
 periode: 6 ben(t)= 4190.8 - 0.7 t + 37.4 sin(wt + 0.8)  
 periode: 7 ben(t)= 4189.2 - 0.7 t + 44.7 sin(wt - 0.5)  
 periode: 8 ben(t)= 4190.7 - 0.7 t + 46.1 sin(wt + 1.4)  
 periode: 9 ben(t)= 4189.3 - 0.7 t + 6.1 sin(wt + 0.2)  
 periode: 10 ben(t)= 4189.6 - 0.7 t + 62.3 sin(wt + 0.4)  
 periode: 11 ben(t)= 4190.1 - 0.7 t +117.5 sin(wt + 1.4)  
 periode: 12 ben(t)= 4188.3 - 0.7 t +143.4 sin(wt - 1.4)  
 periode: 13 ben(t)= 4184.1 - 0.7 t +153.7 sin(wt + 1.4)  
 periode: 14 ben(t)= 4179.7 - 0.7 t +160.1 sin(wt + 0.8)  
 periode: 15 ben(t)= 4177.1 - 0.7 t +166.0 sin(wt - 0.2)  
 periode: 16 ben(t)= 4176.4 - 0.7 t +172.5 sin(wt - 1.4)  
 periode: 17 ben(t)= 4177.2 - 0.7 t +180.5 sin(wt + 0.4)  
 periode: 18 ben(t)= 4178.9 - 0.7 t +190.3 sin(wt - 1.2)  
 periode: 19 ben(t)= 4181.2 - 0.7 t +202.0 sin(wt + 0.2)  
 periode: 20 ben(t)= 4183.9 - 0.7 t +215.8 sin(wt + 1.4)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	47.10	49.54	46.84	44.09	42.07	38.97	39.27	37.40	36.29	38.51	59.74	40.37	39.04	37.19	59.08	35.25	58.35	58.61	37.69	57.50	35.47	30.84
3	194.74	189.47	184.08	180.58	169.73	167.72	165.51	163.46	156.88	160.62	184.45	153.39	163.86	162.43	192.11	174.95	207.06	218.05	206.32	223.40	203.86	212.23
2	389.97	392.41	389.16	389.53	390.05	383.96	391.72	404.15	406.90	411.98	430.15	386.49	394.71	395.30	431.97	416.18	446.10	449.39	423.91	427.63	403.15	412.09
1	701.20	696.62	693.17	700.60	656.29	653.05	618.80	636.05	645.71	615.14	646.06	654.47	664.69	696.18	700.10	700.03	758.08	689.65	635.93	633.21	637.69	664.36
-1	2319.25	2242.89	2235.51	1989.35	1968.64	2004.63	2127.52	1998.02	2013.28	1990.41	2133.24	2068.74	2280.70	2175.00	2169.10	2170.64	2193.85	2058.82	2070.60	2124.09	2013.47	2099.14
-2	725.00	715.49	740.92	784.32	805.52	756.13	752.17	718.03	654.56	662.29	687.27	725.70	711.80	676.33	702.94	725.29	722.75	774.43	742.73	702.40	708.25	737.95
totaal	4377.26	4286.42	4289.69	4088.48	4032.30	4004.44	4094.98	3957.11	3913.61	3878.95	4140.90	4029.16	4254.80	4142.43	4255.30	4222.33	4386.19	4248.96	4117.18	4168.24	4001.90	4156.61

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4100.dat  
 uitvoerfiles:i:\scratch\boschloo\4100t.uit,i:\scratch\boschloo\4100t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -195.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-0.37  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4269.5 - 0.4 t  
 periode: 2 ben(t)= 4239.3 - 0.4 t  
 periode: 3 ben(t)= 4271.3 - 0.4 t + 39.4 sin(wt - 0.8)  
 periode: 4 ben(t)= 4271.4 - 0.4 t + 28.8 sin(wt + 0.8)  
 periode: 5 ben(t)= 4271.7 - 0.4 t + 29.5 sin(wt - 1.0)  
 periode: 6 ben(t)= 4268.7 - 0.4 t + 73.0 sin(wt + 0.7)  
 periode: 7 ben(t)= 4269.6 - 0.4 t + 76.7 sin(wt - 0.9)  
 periode: 8 ben(t)= 4272.4 - 0.4 t + 50.6 sin(wt - 1.2)  
 periode: 9 ben(t)= 4279.1 - 0.4 t + 73.8 sin(wt - 0.3)  
 periode: 10 ben(t)= 4277.5 - 0.4 t + 92.7 sin(wt - 1.2)  
 periode: 11 ben(t)= 4269.5 - 0.4 t + 109.1 sin(wt - 0.0)  
 periode: 12 ben(t)= 4259.1 - 0.4 t + 119.8 sin(wt + 0.4)  
 periode: 13 ben(t)= 4251.2 - 0.4 t + 118.3 sin(wt + 0.3)  
 periode: 14 ben(t)= 4248.7 - 0.4 t + 105.5 sin(wt - 0.3)  
 periode: 15 ben(t)= 4250.5 - 0.4 t + 88.6 sin(wt - 1.2)  
 periode: 16 ben(t)= 4254.0 - 0.4 t + 73.3 sin(wt + 0.8)  
 periode: 17 ben(t)= 4257.7 - 0.4 t + 61.3 sin(wt - 0.6)  
 periode: 18 ben(t)= 4261.0 - 0.4 t + 52.3 sin(wt + 0.9)  
 periode: 19 ben(t)= 4263.7 - 0.4 t + 45.7 sin(wt - 0.8)  
 periode: 20 ben(t)= 4266.0 - 0.4 t + 40.9 sin(wt + 0.5)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	70.05	70.69	70.96	79.41	73.33	85.09	64.39	66.26	62.80	83.85	84.23
	86.81	66.02	67.89	87.97	68.77	85.66	80.46	83.03	103.03	107.85	91.70
3	213.78	219.40	222.86	230.44	228.45	252.30	228.20	228.95	228.34	258.23	258.35
	256.78	233.37	229.31	266.18	235.31	262.82	246.10	247.05	278.73	278.54	254.29
2	441.12	446.90	452.33	460.94	458.61	480.04	458.07	461.90	454.82	485.31	470.50
	476.44	422.59	424.33	453.78	439.30	460.94	434.42	443.85	452.91	457.77	439.90
1	746.88	743.39	762.12	808.74	768.21	777.29	715.19	771.80	767.17	769.90	776.80
	721.43	710.31	747.28	805.27	806.21	843.33	770.19	758.80	785.95	775.15	744.95
-1	1906.17	1874.34	2137.18	1992.20	1855.46	1879.13	1922.68	2092.55	1996.91	1983.85	1861.81
	1835.56	1915.62	2112.06	2048.17	2175.00	2121.00	2161.89	1937.21	2034.67	1992.37	1979.47
-2	680.25	696.41	726.08	766.62	789.96	791.68	765.73	699.37	656.17	673.64	660.82
	689.68	664.63	680.56	671.00	683.00	692.25	755.50	698.32	712.50	660.72	738.47
totaal	4058.25	4051.12	4371.54	4338.35	4174.01	4265.54	4154.26	4320.83	4166.22	4254.78	4112.51
	4066.71	4012.54	4261.42	4332.37	4407.60	4466.00	4448.56	4168.27	4367.78	4272.39	4248.79

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4125.dat  
 uitvoerfiles:i:\scratch\boschloo\4125t.uit,i:\scratch\boschloo\4125t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -135.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-0.05  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3640.1 - 0.1 t  
 periode: 2 ben(t)= 3588.4 - 0.1 t  
 periode: 3 ben(t)= 3639.8 - 0.1 t + 40.3 sin(wt + 0.9)  
 periode: 4 ben(t)= 3646.0 - 0.1 t + 92.7 sin(wt + 0.7)  
 periode: 5 ben(t)= 3644.4 - 0.1 t + 83.0 sin(wt + 1.4)  
 periode: 6 ben(t)= 3639.1 - 0.1 t + 39.2 sin(wt + 0.9)  
 periode: 7 ben(t)= 3640.8 - 0.1 t + 14.8 sin(wt + 0.5)  
 periode: 8 ben(t)= 3642.0 - 0.1 t + 23.6 sin(wt - 0.2)  
 periode: 9 ben(t)= 3649.5 - 0.1 t + 74.1 sin(wt - 0.4)  
 periode: 10 ben(t)= 3649.0 - 0.1 t +114.7 sin(wt + 1.4)  
 periode: 11 ben(t)= 3640.1 - 0.1 t +150.1 sin(wt - 0.7)  
 periode: 12 ben(t)= 3626.8 - 0.1 t +173.1 sin(wt - 0.2)  
 periode: 13 ben(t)= 3615.3 - 0.1 t +179.6 sin(wt - 0.4)  
 periode: 14 ben(t)= 3610.3 - 0.1 t +171.3 sin(wt - 1.0)  
 periode: 15 ben(t)= 3611.3 - 0.1 t +156.8 sin(wt + 1.2)  
 periode: 16 ben(t)= 3615.2 - 0.1 t +143.6 sin(wt - 0.0)  
 periode: 17 ben(t)= 3620.1 - 0.1 t +134.6 sin(wt - 1.6)  
 periode: 18 ben(t)= 3624.9 - 0.1 t +129.9 sin(wt - 0.1)  
 periode: 19 ben(t)= 3629.3 - 0.1 t +128.8 sin(wt + 1.2)  
 periode: 20 ben(t)= 3633.2 - 0.1 t +130.5 sin(wt - 0.8)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	60.28	57.11	57.38	61.33	64.50	63.07	64.15	66.01	65.17	64.03	66.77	74.15	69.08	69.96	58.21	70.98	72.98	80.78	84.77	86.62	104.38	101.29
3	252.81	256.81	256.29	264.37	269.87	269.33	269.01	276.34	279.56	279.26	283.87	289.87	276.31	276.58	264.97	280.29	281.50	288.64	286.52	289.37	303.27	302.98
2	373.20	372.34	373.56	379.94	388.71	392.51	401.81	405.43	415.00	418.30	395.37	400.39	362.19	365.55	364.84	373.84	379.85	379.69	386.70	387.38	401.49	405.65
1	529.07	534.02	506.55	595.29	586.93	581.91	561.69	579.64	590.60	546.12	534.60	509.39	512.73	505.66	542.76	568.61	586.64	577.16	576.58	585.56	575.93	580.12
-1	1554.00	1513.75	1672.75	1772.90	1684.79	1649.47	1551.00	1864.94	1658.08	1624.56	1618.76	1548.98	1486.34	1615.14	1859.67	1965.83	1500.00	1874.82	1828.73	1747.25	1652.50	1665.44
-2	613.33	618.45	626.65	678.35	686.55	774.33	705.91	657.00	580.67	602.38	595.72	652.21	593.26	634.15	647.73	669.67	598.33	710.43	755.36	775.55	743.70	715.50
totaal	3382.68	3352.48	3493.17	3752.18	3681.33	3730.63	3553.58	3849.35	3589.08	3534.65	3495.08	3474.98	3299.90	3467.05	3738.18	3929.23	3419.30	3911.53	3918.66	3871.73	3781.26	3770.98



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4150.dat  
 uitvoerfiles:i:\scratch\boschloo\4150t.uit,i:\scratch\boschloo\4150t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -165.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:0.27  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4018.7 + 0.3 t  
 periode: 2 ben(t)= 3996.6 + 0.3 t  
 periode: 3 ben(t)= 4019.5 + 0.3 t + 48.4 sin(wt + 1.4)  
 periode: 4 ben(t)= 4016.6 + 0.3 t + 41.1 sin(wt + 1.5)  
 periode: 5 ben(t)= 4017.5 + 0.3 t + 37.8 sin(wt + 1.1)  
 periode: 6 ben(t)= 4023.3 + 0.3 t + 68.7 sin(wt + 1.5)  
 periode: 7 ben(t)= 4020.5 + 0.3 t + 49.9 sin(wt + 0.0)  
 periode: 8 ben(t)= 4018.2 + 0.3 t + 10.7 sin(wt + 0.6)  
 periode: 9 ben(t)= 4023.7 + 0.3 t + 63.1 sin(wt - 1.1)  
 periode: 10 ben(t)= 4025.0 + 0.3 t +117.9 sin(wt + 1.0)  
 periode: 11 ben(t)= 4018.7 + 0.3 t +158.6 sin(wt - 1.0)  
 periode: 12 ben(t)= 4006.1 + 0.3 t +184.7 sin(wt - 0.4)  
 periode: 13 ben(t)= 3992.5 + 0.3 t +200.0 sin(wt - 0.5)  
 periode: 14 ben(t)= 3984.2 + 0.3 t +201.8 sin(wt - 1.0)  
 periode: 15 ben(t)= 3982.5 + 0.3 t +194.4 sin(wt + 1.2)  
 periode: 16 ben(t)= 3985.2 + 0.3 t +184.8 sin(wt + 0.0)  
 periode: 17 ben(t)= 3990.1 + 0.3 t +177.2 sin(wt - 1.4)  
 periode: 18 ben(t)= 3995.7 + 0.3 t +172.7 sin(wt + 0.0)  
 periode: 19 ben(t)= 4001.5 + 0.3 t +171.2 sin(wt + 1.4)  
 periode: 20 ben(t)= 4007.3 + 0.3 t +172.5 sin(wt - 0.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	81.57	81.67	82.63	81.86	83.34	81.80	83.14	79.40	80.25	80.75	57.43	83.55	59.99	79.91	80.54	83.06	86.79	66.72	71.57	71.61	80.17	82.47
3	231.47	235.06	235.91	238.05	240.77	239.52	244.00	247.50	242.22	246.47	220.82	255.80	228.25	247.60	245.03	250.12	252.54	236.07	241.35	239.33	250.68	258.87
2	495.15	498.28	496.02	501.66	509.02	509.43	516.70	522.78	522.60	527.92	475.17	503.53	450.37	477.27	481.25	490.36	495.17	473.20	476.78	476.27	491.53	502.93
1	665.42	666.03	639.45	645.72	693.68	716.10	702.73	692.76	700.15	629.88	627.42	648.93	625.96	639.23	643.29	651.62	707.54	686.79	683.20	686.13	753.15	736.65
-1	1792.83	1737.87	1806.78	1825.02	1879.50	1899.89	1783.80	1836.79	1901.94	1715.37	1752.38	1823.09	1744.25	1747.61	1656.28	1867.54	1924.21	2230.75	2046.80	1990.98	1938.93	1902.45
-2	645.50	652.63	651.12	696.68	705.83	752.11	779.00	669.49	622.83	638.38	627.99	691.65	670.94	664.22	658.38	712.93	673.71	730.33	748.20	759.08	765.80	746.00
totaal	3911.94	3871.53	3911.91	3989.00	4112.15	4198.85	4109.38	4048.72	4070.00	3838.76	3761.21	4006.55	3779.77	3855.84	3764.77	4055.63	4139.95	4423.87	4267.90	4223.40	4280.26	4229.38

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4175.dat  
 uitvoerfiles:i:\scratch\boschloo\4175t.uit,i:\scratch\boschloo\4175t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -190.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:0.59  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4351.4 + 0.6 t  
 periode: 2 ben(t)= 4304.8 + 0.6 t  
 periode: 3 ben(t)= 4350.0 + 0.6 t + 90.5 sin(wt + 1.4)  
 periode: 4 ben(t)= 4351.2 + 0.6 t + 14.8 sin(wt - 0.9)  
 periode: 5 ben(t)= 4344.4 + 0.6 t + 95.7 sin(wt - 0.8)  
 periode: 6 ben(t)= 4356.2 + 0.6 t +163.0 sin(wt + 0.9)  
 periode: 7 ben(t)= 4352.5 + 0.6 t +202.8 sin(wt - 0.8)  
 periode: 8 ben(t)= 4347.7 + 0.6 t +101.1 sin(wt - 1.5)  
 periode: 9 ben(t)= 4343.9 + 0.6 t + 59.1 sin(wt + 0.1)  
 periode: 10 ben(t)= 4346.6 + 0.6 t +121.0 sin(wt - 0.2)  
 periode: 11 ben(t)= 4351.4 + 0.6 t +172.5 sin(wt + 1.2)  
 periode: 12 ben(t)= 4354.1 + 0.6 t +182.0 sin(wt - 1.5)  
 periode: 13 ben(t)= 4353.0 + 0.6 t +174.3 sin(wt - 1.5)  
 periode: 14 ben(t)= 4349.6 + 0.6 t +167.4 sin(wt + 1.2)  
 periode: 15 ben(t)= 4346.2 + 0.6 t +165.3 sin(wt + 0.4)  
 periode: 16 ben(t)= 4344.1 + 0.6 t +167.0 sin(wt - 0.8)  
 periode: 17 ben(t)= 4343.4 + 0.6 t +171.6 sin(wt + 1.0)  
 periode: 18 ben(t)= 4343.8 + 0.6 t +178.5 sin(wt - 0.6)  
 periode: 19 ben(t)= 4345.0 + 0.6 t +187.4 sin(wt + 0.8)  
 periode: 20 ben(t)= 4346.8 + 0.6 t +198.2 sin(wt - 1.2)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	153.71	153.33	105.27	154.37	133.51	155.25	152.34	153.12	96.73	156.63	157.14
	106.47	99.48	99.67	69.30	70.63	90.69	93.25	79.36	111.30	116.80	94.89
3	299.29	304.67	254.46	313.28	291.46	315.38	319.52	329.45	270.15	341.84	354.16
	288.09	267.31	277.51	245.25	245.11	269.03	281.58	269.71	313.33	317.18	294.04
2	533.87	550.29	498.42	560.02	539.55	562.95	566.32	573.26	514.49	584.86	572.23
	493.18	456.66	470.03	437.90	442.51	468.40	473.61	453.54	488.17	505.30	476.49
1	810.17	781.30	705.56	765.51	750.73	773.90	812.38	796.57	713.52	745.22	758.47
	693.73	675.90	718.06	645.98	642.21	682.38	695.54	703.86	778.52	762.43	733.25
-1	2107.84	1961.75	1798.35	1897.64	2041.02	2062.64	2151.58	1939.66	1949.44	1804.85	2003.94
	2221.95	2067.44	2087.47	1803.76	1983.25	1958.48	2060.48	2160.81	2223.30	2035.52	2076.11
-2	660.60	685.05	655.54	690.45	680.48	751.56	798.83	726.65	632.34	677.25	670.47
	734.66	738.25	729.43	689.81	735.88	694.95	742.12	767.17	803.87	800.58	798.27
totaal	4565.49	4436.39	4017.60	4381.26	4436.75	4621.69	4800.98	4518.71	4176.68	4310.65	4516.42
	4538.08	4305.03	4382.18	3892.01	4119.59	4163.93	4346.59	4434.45	4718.48	4537.81	4473.06

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4200.dat
uitvoerfiles:i:\scratch\boschloo\4200t.uit,i:\scratch\boschloo\4200t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -220.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

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```

trend:0.91
amplitude:vrij
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4945.1 + 0.9 t
periode: 2  ben(t)= 4914.8 + 0.9 t
periode: 3  ben(t)= 4941.7 + 0.9 t + 79.6 sin(wt - 0.2)
periode: 4  ben(t)= 4946.5 + 0.9 t + 26.5 sin(wt + 1.4)
periode: 5  ben(t)= 4946.7 + 0.9 t + 51.8 sin(wt + 0.2)
periode: 6  ben(t)= 4939.8 + 0.9 t +167.1 sin(wt + 0.1)
periode: 7  ben(t)= 4941.1 + 0.9 t +170.5 sin(wt - 1.4)
periode: 8  ben(t)= 4952.7 + 0.9 t +113.1 sin(wt + 0.3)
periode: 9  ben(t)= 4952.6 + 0.9 t + 60.9 sin(wt + 0.2)
periode: 10 ben(t)= 4947.4 + 0.9 t + 27.2 sin(wt - 1.5)
periode: 11 ben(t)= 4945.1 + 0.9 t + 20.8 sin(wt - 1.5)
periode: 12 ben(t)= 4946.2 + 0.9 t + 25.6 sin(wt + 1.4)
periode: 13 ben(t)= 4949.0 + 0.9 t + 32.4 sin(wt + 0.8)
periode: 14 ben(t)= 4951.4 + 0.9 t + 36.7 sin(wt + 0.1)
periode: 15 ben(t)= 4952.4 + 0.9 t + 37.6 sin(wt - 0.9)
periode: 16 ben(t)= 4952.2 + 0.9 t + 36.6 sin(wt + 1.0)
periode: 17 ben(t)= 4951.4 + 0.9 t + 35.1 sin(wt - 0.4)
periode: 18 ben(t)= 4950.2 + 0.9 t + 33.6 sin(wt + 1.1)
periode: 19 ben(t)= 4949.0 + 0.9 t + 32.5 sin(wt - 0.6)
periode: 20 ben(t)= 4947.7 + 0.9 t + 31.7 sin(wt + 0.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	135.34	134.48	143.43	133.28	134.10	132.42	129.95	106.44	109.89	136.00	106.71
	92.65	111.78	113.49	110.05	110.15	111.54	113.43	118.42	119.91	129.30	117.57
3	351.81	353.61	364.30	352.34	356.35	353.69	351.26	329.90	338.62	370.58	308.11
	320.86	349.75	342.27	350.92	356.19	359.05	368.92	370.01	373.81	375.22	368.29
2	650.87	664.78	675.72	663.63	674.60	667.85	668.02	644.27	655.96	688.73	605.62
	617.86	637.82	635.57	646.00	653.20	654.98	648.39	643.22	643.22	651.31	638.79
1	970.58	925.61	965.23	934.82	892.57	909.88	998.68	964.82	938.99	955.09	834.10
	873.96	900.45	950.67	937.78	910.26	889.93	855.17	905.18	880.78	901.03	905.57
-1	2349.71	2147.57	2087.23	1988.06	2090.38	2265.28	2367.50	2327.25	2197.36	2140.67	2071.17
	2416.70	2420.75	2385.21	2193.45	2218.40	1975.56	2137.84	2282.37	2278.00	2106.61	2254.04
-2	716.07	724.23	764.55	733.51	744.13	800.22	824.50	823.00	714.09	710.33	704.26
	788.30	792.00	777.07	743.55	791.50	707.09	799.42	778.63	792.20	681.22	722.35
totaal	5174.39	4950.28	5000.46	4805.63	4892.11	5129.34	5339.91	5195.67	4954.91	5001.40	4629.98
	5110.33	5212.56	5204.28	4981.74	5039.70	4698.17	4923.17	5097.83	5087.91	4844.69	5006.60

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4225.dat  
 uitvoerfiles:i:\scratch\boschloo\4225t.uit,i:\scratch\boschloo\4225t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -223.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:1.23  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5193.1 + 1.2 t  
 periode: 2 ben(t)= 5163.0 + 1.2 t  
 periode: 3 ben(t)= 5193.6 + 1.2 t + 20.5 sin(wt + 0.5)  
 periode: 4 ben(t)= 5196.8 + 1.2 t + 59.3 sin(wt + 1.1)  
 periode: 5 ben(t)= 5199.5 + 1.2 t + 87.7 sin(wt - 0.8)  
 periode: 6 ben(t)= 5191.3 + 1.2 t + 30.4 sin(wt - 0.3)  
 periode: 7 ben(t)= 5194.1 + 1.2 t + 27.2 sin(wt - 0.0)  
 periode: 8 ben(t)= 5195.4 + 1.2 t + 32.4 sin(wt + 0.2)  
 periode: 9 ben(t)= 5202.6 + 1.2 t + 76.7 sin(wt + 0.1)  
 periode: 10 ben(t)= 5200.1 + 1.2 t + 87.1 sin(wt - 0.9)  
 periode: 11 ben(t)= 5193.1 + 1.2 t + 79.3 sin(wt + 0.3)  
 periode: 12 ben(t)= 5188.9 + 1.2 t + 57.0 sin(wt + 0.8)  
 periode: 13 ben(t)= 5191.1 + 1.2 t + 30.5 sin(wt + 1.3)  
 periode: 14 ben(t)= 5197.5 + 1.2 t + 33.2 sin(wt - 1.3)  
 periode: 15 ben(t)= 5203.6 + 1.2 t + 53.5 sin(wt + 1.3)  
 periode: 16 ben(t)= 5207.2 + 1.2 t + 69.4 sin(wt + 0.3)  
 periode: 17 ben(t)= 5208.3 + 1.2 t + 80.3 sin(wt - 1.1)  
 periode: 18 ben(t)= 5207.4 + 1.2 t + 88.3 sin(wt + 0.4)  
 periode: 19 ben(t)= 5205.1 + 1.2 t + 94.6 sin(wt - 1.3)  
 periode: 20 ben(t)= 5201.8 + 1.2 t +100.2 sin(wt - 0.1)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	78.88	80.11	79.46	82.02	81.98	81.06	86.80	87.67	85.66	86.40	101.37
	100.75	95.48	91.81	85.21	92.33	87.63	104.50	113.24	109.45	112.50	115.74
3	400.50	406.31	409.25	411.93	419.46	415.36	423.34	430.01	433.49	435.42	488.21
	508.73	508.27	494.25	497.58	518.96	494.47	508.69	526.24	513.49	508.51	527.96
2	736.66	745.94	747.38	752.99	770.92	766.06	776.23	780.55	792.13	793.60	780.40
	784.14	752.41	755.46	755.51	759.44	766.68	766.07	775.52	753.14	755.39	756.24
1	989.64	1041.41	1052.48	1039.78	1012.56	1025.05	1046.54	1068.52	1069.92	1073.24	1024.40
	999.07	1009.14	1030.51	1043.83	1066.40	1061.04	1033.27	1035.96	977.23	978.05	1025.69
-1	2039.63	2161.36	2148.74	2137.11	2176.20	2234.50	2116.40	2257.00	2081.40	2193.42	2106.85
	2057.75	2276.67	2298.75	2261.40	2259.50	2038.94	2162.05	2217.19	2182.16	2117.75	1995.24
-2	678.00	739.78	767.14	811.94	782.88	788.67	760.70	854.83	781.50	741.84	755.70
	813.25	813.26	798.42	771.97	796.67	751.11	760.45	769.27	754.94	700.66	700.94
totaal	4923.30	5174.89	5204.45	5235.77	5244.01	5310.70	5210.01	5478.58	5244.11	5323.92	5256.93
	5263.69	5455.23	5469.20	5415.49	5493.29	5199.86	5335.04	5437.43	5290.41	5172.86	5121.82

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4250.dat  
 uitvoerfiles:i:\scratch\boschloo\4250t.uit,i:\scratch\boschloo\4250t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -130.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:1.55  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3667.9 + 1.5 t  
 periode: 2 ben(t)= 3634.0 + 1.5 t  
 periode: 3 ben(t)= 3669.0 + 1.5 t + 59.9 sin(wt + 1.4)  
 periode: 4 ben(t)= 3669.6 + 1.5 t + 30.4 sin(wt + 0.2)  
 periode: 5 ben(t)= 3669.1 + 1.5 t + 42.7 sin(wt + 1.0)  
 periode: 6 ben(t)= 3676.3 + 1.5 t +169.3 sin(wt - 0.2)  
 periode: 7 ben(t)= 3672.2 + 1.5 t +146.7 sin(wt + 1.5)  
 periode: 8 ben(t)= 3667.6 + 1.5 t + 37.8 sin(wt + 1.1)  
 periode: 9 ben(t)= 3678.8 + 1.5 t + 82.8 sin(wt - 0.2)  
 periode: 10 ben(t)= 3678.4 + 1.5 t +121.6 sin(wt - 1.1)  
 periode: 11 ben(t)= 3667.9 + 1.5 t +140.8 sin(wt - 0.0)  
 periode: 12 ben(t)= 3655.1 + 1.5 t +146.3 sin(wt + 0.3)  
 periode: 13 ben(t)= 3647.0 + 1.5 t +134.0 sin(wt + 0.1)  
 periode: 14 ben(t)= 3646.3 + 1.5 t +108.7 sin(wt - 0.5)  
 periode: 15 ben(t)= 3650.3 + 1.5 t + 81.8 sin(wt - 1.5)  
 periode: 16 ben(t)= 3655.4 + 1.5 t + 59.9 sin(wt + 0.3)  
 periode: 17 ben(t)= 3659.9 + 1.5 t + 44.4 sin(wt - 1.2)  
 periode: 18 ben(t)= 3663.2 + 1.5 t + 34.9 sin(wt + 0.0)  
 periode: 19 ben(t)= 3665.5 + 1.5 t + 30.6 sin(wt + 1.1)  
 periode: 20 ben(t)= 3667.0 + 1.5 t + 30.3 sin(wt - 1.1)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	21.59	22.37	22.26	20.76	27.10	27.50	30.20	35.71	34.65	41.88	37.88
	42.15	42.36	36.39	37.39	44.67	38.59	55.23	61.40	71.21	75.26	80.97
3	294.70	295.19	295.86	300.83	306.07	308.10	315.45	324.57	323.54	328.05	332.62
	342.05	335.31	328.74	330.96	341.35	335.08	350.64	359.12	365.37	367.68	369.34
2	399.03	398.17	399.20	405.78	412.84	419.68	424.70	428.14	431.13	432.96	437.83
	445.71	418.90	421.42	425.70	431.68	434.36	435.20	440.41	438.04	433.77	436.89
1	539.63	552.33	546.57	593.49	596.76	606.71	563.29	576.68	586.22	613.64	621.42
	579.47	550.44	536.59	612.57	638.58	609.67	600.08	582.51	568.20	552.99	587.88
-1	1546.38	1667.94	1813.75	1877.55	1876.78	1864.43	1572.77	1602.89	1767.17	1710.12	1699.01
	1682.82	1529.34	1499.54	1804.83	1944.92	1864.75	1873.74	1751.22	1649.27	1658.83	1772.33
-2	606.00	658.75	657.95	727.77	722.97	738.52	626.57	714.50	716.17	684.24	594.19
	709.86	678.49	686.56	668.62	713.42	708.08	687.60	680.36	668.84	604.42	621.83
totaal	3407.33	3594.75	3735.58	3926.19	3942.53	3964.93	3532.98	3682.49	3858.88	3810.88	3722.95
	3802.06	3554.85	3509.23	3880.07	4114.63	3990.53	4002.48	3875.03	3760.93	3692.95	3869.25

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4275.dat  
 uitvoerfiles:i:\scratch\boschloo\4275t.uit,i:\scratch\boschloo\4275t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -228.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:1.87  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5149.8 + 1.9 t  
 periode: 2 ben(t)= 5153.2 + 1.9 t  
 periode: 3 ben(t)= 5152.6 + 1.9 t + 67.8 sin(wt - 0.1)  
 periode: 4 ben(t)= 5149.4 + 1.9 t +104.0 sin(wt - 0.8)  
 periode: 5 ben(t)= 5148.7 + 1.9 t +120.2 sin(wt + 0.5)  
 periode: 6 ben(t)= 5156.6 + 1.9 t +158.6 sin(wt - 0.1)  
 periode: 7 ben(t)= 5152.1 + 1.9 t +113.3 sin(wt - 1.4)  
 periode: 8 ben(t)= 5152.4 + 1.9 t + 87.4 sin(wt + 1.6)  
 periode: 9 ben(t)= 5161.8 + 1.9 t +130.1 sin(wt - 1.0)  
 periode: 10 ben(t)= 5159.2 + 1.9 t +156.7 sin(wt + 1.1)  
 periode: 11 ben(t)= 5149.8 + 1.9 t +161.7 sin(wt - 0.9)  
 periode: 12 ben(t)= 5140.5 + 1.9 t +147.9 sin(wt - 0.5)  
 periode: 13 ben(t)= 5136.4 + 1.9 t +124.0 sin(wt - 0.7)  
 periode: 14 ben(t)= 5138.2 + 1.9 t + 99.2 sin(wt - 1.4)  
 periode: 15 ben(t)= 5142.6 + 1.9 t + 81.9 sin(wt + 0.6)  
 periode: 16 ben(t)= 5146.9 + 1.9 t + 73.6 sin(wt - 0.8)  
 periode: 17 ben(t)= 5149.9 + 1.9 t + 71.7 sin(wt + 0.7)  
 periode: 18 ben(t)= 5151.5 + 1.9 t + 73.4 sin(wt - 1.0)  
 periode: 19 ben(t)= 5152.2 + 1.9 t + 77.0 sin(wt + 0.3)  
 periode: 20 ben(t)= 5151.9 + 1.9 t + 81.6 sin(wt + 1.4)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	12.52	29.94	14.31	19.84	28.13	33.58	50.24	68.65	79.27	77.95	85.13	83.57	73.82	85.89	109.59	110.11	111.73	129.56	84.49	127.85	133.65	118.29
3	456.31	473.24	458.49	460.64	463.69	467.24	478.15	483.03	484.73	479.88	489.49	485.96	476.02	479.39	501.79	495.26	474.21	469.70	405.78	457.90	444.16	435.49
2	715.24	705.54	695.65	694.70	704.30	708.99	713.76	720.91	726.92	731.11	735.09	750.51	699.32	702.71	708.82	709.55	714.15	711.88	635.51	683.17	651.06	649.41
1	1055.74	1019.81	1016.61	1062.76	1079.60	1079.39	1060.16	1113.90	1068.24	1097.20	1102.56	1096.42	985.67	1015.39	1086.73	1062.93	1067.28	1082.83	983.76	1034.43	1066.59	1037.65
-1	2123.80	2105.22	1998.21	2320.14	2511.27	2061.80	2199.00	2205.48	2292.05	2332.92	2273.79	2104.00	1992.33	1968.01	2215.82	2291.50	2334.20	2387.83	2244.88	2308.24	2414.61	2162.92
-2	741.70	732.78	722.88	792.72	850.20	771.43	785.08	762.35	808.00	771.86	703.83	723.34	658.28	763.17	709.10	828.55	847.97	765.10	749.03	770.09	806.92	711.41
totaal	5105.31	5066.54	4906.16	5350.81	5637.19	5122.44	5286.39	5354.32	5459.21	5490.93	5389.90	5243.80	4885.45	5014.54	5331.84	5497.89	5549.54	5546.91	5103.45	5381.69	5516.98	5115.17

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4300.dat  
 uitvoerfiles:i:\scratch\boschloo\4300t.uit,i:\scratch\boschloo\4300t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -188.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:2.19  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4864.5 + 2.2 t  
 periode: 2 ben(t)= 4833.0 + 2.2 t  
 periode: 3 ben(t)= 4863.7 + 2.2 t + 43.2 sin(wt + 1.4)  
 periode: 4 ben(t)= 4862.5 + 2.2 t + 44.2 sin(wt - 0.0)  
 periode: 5 ben(t)= 4866.7 + 2.2 t + 33.0 sin(wt - 0.6)  
 periode: 6 ben(t)= 4869.8 + 2.2 t + 72.4 sin(wt - 1.4)  
 periode: 7 ben(t)= 4868.6 + 2.2 t + 90.9 sin(wt + 0.8)  
 periode: 8 ben(t)= 4857.4 + 2.2 t +108.2 sin(wt + 0.3)  
 periode: 9 ben(t)= 4858.1 + 2.2 t +144.6 sin(wt + 1.1)  
 periode: 10 ben(t)= 4862.7 + 2.2 t +211.4 sin(wt + 0.2)  
 periode: 11 ben(t)= 4864.5 + 2.2 t +246.7 sin(wt + 1.4)  
 periode: 12 ben(t)= 4863.4 + 2.2 t +240.4 sin(wt - 1.3)  
 periode: 13 ben(t)= 4861.0 + 2.2 t +223.5 sin(wt - 1.3)  
 periode: 14 ben(t)= 4858.9 + 2.2 t +210.6 sin(wt + 1.3)  
 periode: 15 ben(t)= 4858.0 + 2.2 t +204.0 sin(wt + 0.4)  
 periode: 16 ben(t)= 4858.1 + 2.2 t +202.9 sin(wt - 0.8)  
 periode: 17 ben(t)= 4858.8 + 2.2 t +206.1 sin(wt + 0.9)  
 periode: 18 ben(t)= 4859.8 + 2.2 t +213.0 sin(wt - 0.7)  
 periode: 19 ben(t)= 4861.0 + 2.2 t +223.0 sin(wt + 0.6)  
 periode: 20 ben(t)= 4862.1 + 2.2 t +235.7 sin(wt - 1.3)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	70.31	71.44	73.88	75.11	73.65	75.97	73.91	73.17	73.52	79.65	69.94	70.31	75.02	63.82	63.34	75.32	69.64	67.65	72.17	61.69	74.46	89.49
3	503.48	510.56	514.82	523.48	520.80	523.88	523.56	527.88	532.68	544.36	533.12	544.00	542.71	536.59	530.95	534.16	536.68	524.56	531.14	514.74	525.16	534.36
2	690.50	700.22	702.89	705.10	707.08	708.34	712.64	718.08	721.58	726.86	725.92	729.10	683.45	681.68	675.22	675.82	688.16	659.89	662.50	664.43	674.92	684.09
1	970.81	951.18	953.06	942.94	976.95	959.24	975.10	1003.59	976.28	976.19	1002.29	973.24	925.88	924.63	898.65	887.69	887.93	877.91	942.62	965.71	990.65	991.13
-1	1980.00	2022.91	1996.13	1924.07	2126.64	2029.50	2081.72	2112.51	2112.79	2241.75	2108.69	1987.75	1981.65	1866.22	1734.49	1871.88	1971.60	2320.86	2256.68	2271.13	1925.40	2158.83
-2	709.75	706.96	742.40	697.32	799.80	808.08	766.11	743.78	802.21	785.50	652.84	675.25	644.35	681.21	611.58	734.00	756.00	760.89	780.74	784.71	685.60	732.97
totaal	4924.85	4963.28	4983.17	4868.02	5204.93	5105.01	5133.03	5179.01	5219.06	5354.30	5092.79	4979.65	4853.07	4754.15	4514.23	4778.87	4910.00	5211.75	5245.84	5262.41	4876.19	5190.87

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4325.dat  
 uitvoerfiles:i:\scratch\boschloo\4325t.uit,i:\scratch\boschloo\4325t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -142.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:2.51  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4126.2 + 2.5 t  
 periode: 2 ben(t)= 4113.1 + 2.5 t  
 periode: 3 ben(t)= 4123.0 + 2.5 t + 90.9 sin(wt - 1.2)  
 periode: 4 ben(t)= 4127.3 + 2.5 t + 31.7 sin(wt - 1.4)  
 periode: 5 ben(t)= 4124.7 + 2.5 t + 54.3 sin(wt + 1.0)  
 periode: 6 ben(t)= 4126.7 + 2.5 t + 96.3 sin(wt + 0.6)  
 periode: 7 ben(t)= 4127.2 + 2.5 t + 42.9 sin(wt - 0.4)  
 periode: 8 ben(t)= 4120.1 + 2.5 t + 93.2 sin(wt + 0.3)  
 periode: 9 ben(t)= 4113.1 + 2.5 t +167.5 sin(wt + 0.8)  
 periode: 10 ben(t)= 4117.5 + 2.5 t +226.5 sin(wt - 0.1)  
 periode: 11 ben(t)= 4126.2 + 2.5 t +248.4 sin(wt + 1.0)  
 periode: 12 ben(t)= 4133.7 + 2.5 t +231.6 sin(wt + 1.5)  
 periode: 13 ben(t)= 4136.3 + 2.5 t +204.3 sin(wt + 1.4)  
 periode: 14 ben(t)= 4134.3 + 2.5 t +182.2 sin(wt + 0.9)  
 periode: 15 ben(t)= 4130.5 + 2.5 t +169.5 sin(wt + 0.1)  
 periode: 16 ben(t)= 4127.1 + 2.5 t +164.8 sin(wt - 1.0)  
 periode: 17 ben(t)= 4124.9 + 2.5 t +165.5 sin(wt + 0.8)  
 periode: 18 ben(t)= 4123.7 + 2.5 t +169.8 sin(wt - 0.8)  
 periode: 19 ben(t)= 4123.5 + 2.5 t +176.8 sin(wt + 0.6)  
 periode: 20 ben(t)= 4123.9 + 2.5 t +186.1 sin(wt - 1.3)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	123.67	128.22	132.85	132.50	134.87	137.61	134.09	136.13	137.31	136.56	152.69	154.41	155.88	144.35	152.23	151.62	150.96	150.46	176.79	158.55	149.62	151.83
3	431.55	441.07	447.16	448.12	450.85	452.66	452.62	457.85	465.60	469.64	471.65	460.53	472.22	471.33	481.72	471.42	475.25	468.18	487.18	458.25	462.14	457.30
2	515.53	527.67	527.51	528.40	526.78	519.85	520.53	526.11	532.16	535.09	529.03	528.07	518.45	520.03	527.72	517.78	522.18	503.94	521.75	493.11	501.96	498.44
1	725.05	717.23	670.93	665.13	647.67	642.99	681.69	743.00	696.94	673.34	664.09	723.71	660.53	677.87	627.91	636.49	637.65	579.42	689.71	648.82	652.94	675.82
-1	1956.30	1922.13	1763.70	1765.12	1769.24	1819.10	1961.23	2018.19	1817.64	1922.41	1982.39	1822.11	1838.67	1627.92	1505.39	1648.42	1667.62	1858.78	1996.14	1927.58	1821.76	1984.90
-2	679.82	691.47	683.80	627.29	706.43	691.23	760.67	719.31	721.36	758.00	686.21	648.29	644.19	602.35	532.92	625.92	599.21	712.73	749.48	750.92	675.74	704.54
totaal	4431.91	4427.78	4225.95	4166.56	4235.84	4263.44	4510.83	4600.59	4371.00	4495.05	4486.06	4337.12	4289.95	4043.84	3827.90	4051.65	4052.86	4273.51	4621.04	4437.23	4264.16	4472.83



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4350.dat  
 uitvoerfiles:i:\scratch\boschloo\4350t.uit,i:\scratch\boschloo\4350t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -140.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:2.83  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4412.8 + 2.8 t  
 periode: 2 ben(t)= 4408.8 + 2.8 t  
 periode: 3 ben(t)= 4409.9 + 2.8 t + 66.1 sin(wt - 0.7)  
 periode: 4 ben(t)= 4414.7 + 2.8 t + 42.4 sin(wt - 0.0)  
 periode: 5 ben(t)= 4410.3 + 2.8 t + 42.4 sin(wt - 0.3)  
 periode: 6 ben(t)= 4410.4 + 2.8 t + 30.8 sin(wt - 0.9)  
 periode: 7 ben(t)= 4411.7 + 2.8 t + 27.5 sin(wt + 0.3)  
 periode: 8 ben(t)= 4410.1 + 2.8 t + 44.2 sin(wt + 0.4)  
 periode: 9 ben(t)= 4401.6 + 2.8 t + 93.9 sin(wt + 0.2)  
 periode: 10 ben(t)= 4403.2 + 2.8 t +118.1 sin(wt - 0.9)  
 periode: 11 ben(t)= 4412.8 + 2.8 t +134.2 sin(wt + 0.1)  
 periode: 12 ben(t)= 4425.5 + 2.8 t +145.1 sin(wt + 0.4)  
 periode: 13 ben(t)= 4435.1 + 2.8 t +143.0 sin(wt + 0.2)  
 periode: 14 ben(t)= 4438.3 + 2.8 t +127.8 sin(wt - 0.4)  
 periode: 15 ben(t)= 4436.3 + 2.8 t +107.7 sin(wt - 1.4)  
 periode: 16 ben(t)= 4432.1 + 2.8 t + 89.5 sin(wt + 0.6)  
 periode: 17 ben(t)= 4427.6 + 2.8 t + 75.1 sin(wt - 0.9)  
 periode: 18 ben(t)= 4423.6 + 2.8 t + 64.5 sin(wt + 0.6)  
 periode: 19 ben(t)= 4420.2 + 2.8 t + 56.8 sin(wt - 1.2)  
 periode: 20 ben(t)= 4417.3 + 2.8 t + 51.3 sin(wt - 0.1)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	127.47	134.50	143.69	157.21	163.78	164.54	162.47	165.79	158.84	160.39	161.96	184.94	171.41	164.54	157.13	171.01	170.75	169.51	174.34	165.60	167.78	171.33
3	490.76	492.54	497.70	500.95	505.15	508.31	511.56	516.67	523.44	525.95	536.03	539.31	532.22	530.28	529.57	538.00	534.95	537.24	527.72	521.23	517.93	517.54
2	572.47	583.66	588.39	594.26	600.35	605.90	606.51	609.86	615.52	617.76	603.90	615.64	609.35	617.54	614.18	620.60	619.51	618.81	589.44	575.87	571.65	573.40
1	851.87	807.72	797.01	798.31	757.75	749.61	746.69	784.85	772.68	764.36	712.10	814.74	823.93	787.14	795.65	792.21	780.89	693.71	700.00	684.28	662.58	742.85
-1	2104.30	2045.63	1812.84	1903.54	1745.95	1719.75	1902.16	1874.05	1862.53	2003.50	2030.01	1968.32	1895.23	1742.73	1893.17	1807.50	1727.20	1601.69	1907.35	1851.73	1945.18	1919.44
-2	689.20	705.75	719.57	677.00	713.55	715.25	686.71	709.90	715.47	790.83	688.21	714.35	687.80	659.93	597.33	690.64	629.68	708.05	714.00	806.31	725.03	659.29
totaal	4836.08	4769.80	4559.20	4631.28	4486.52	4463.35	4616.10	4661.13	4648.48	4862.80	4732.23	4837.30	4719.95	4502.17	4587.03	4619.97	4462.98	4328.99	4612.85	4605.03	4590.16	4583.84

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4375.dat  
 uitvoerfiles:i:\scratch\boschloo\4375t.uit,i:\scratch\boschloo\4375t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -147.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:3.15  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4465.0 + 3.1 t  
 periode: 2 ben(t)= 4481.2 + 3.1 t  
 periode: 3 ben(t)= 4464.6 + 3.1 t + 11.0 sin(wt - 0.9)  
 periode: 4 ben(t)= 4463.9 + 3.1 t + 37.3 sin(wt - 1.3)  
 periode: 5 ben(t)= 4459.3 + 3.1 t + 79.5 sin(wt - 1.1)  
 periode: 6 ben(t)= 4468.4 + 3.1 t + 110.2 sin(wt + 0.1)  
 periode: 7 ben(t)= 4465.4 + 3.1 t + 99.3 sin(wt - 1.0)  
 periode: 8 ben(t)= 4463.2 + 3.1 t + 28.6 sin(wt + 0.3)  
 periode: 9 ben(t)= 4459.0 + 3.1 t + 61.5 sin(wt - 0.9)  
 periode: 10 ben(t)= 4459.6 + 3.1 t + 106.7 sin(wt + 0.9)  
 periode: 11 ben(t)= 4465.0 + 3.1 t + 131.1 sin(wt - 1.1)  
 periode: 12 ben(t)= 4473.1 + 3.1 t + 135.9 sin(wt - 0.6)  
 periode: 13 ben(t)= 4480.2 + 3.1 t + 131.6 sin(wt - 0.6)  
 periode: 14 ben(t)= 4483.3 + 3.1 t + 121.9 sin(wt - 1.2)  
 periode: 15 ben(t)= 4482.8 + 3.1 t + 110.6 sin(wt + 1.0)  
 periode: 16 ben(t)= 4480.3 + 3.1 t + 101.1 sin(wt - 0.2)  
 periode: 17 ben(t)= 4477.4 + 3.1 t + 94.5 sin(wt + 1.5)  
 periode: 18 ben(t)= 4474.4 + 3.1 t + 90.6 sin(wt - 0.2)  
 periode: 19 ben(t)= 4471.7 + 3.1 t + 89.1 sin(wt + 1.1)  
 periode: 20 ben(t)= 4469.3 + 3.1 t + 89.3 sin(wt - 0.9)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	122.85	127.48	137.80	148.75	152.80	153.48	155.67	153.99	157.15	142.44	149.35	155.83	156.84	154.15	156.35	165.16	167.48	159.04	163.41	155.05	167.51	164.87
3	403.33	409.01	412.96	421.84	423.91	428.00	430.88	436.50	441.04	435.19	443.26	445.41	446.72	446.26	452.88	460.45	465.48	472.05	474.35	447.63	448.20	449.62
2	550.23	572.52	582.22	591.01	596.38	600.31	602.95	605.16	600.45	603.96	610.80	609.49	596.42	600.57	601.97	614.63	617.65	609.86	597.84	559.45	561.48	561.52
1	882.67	869.85	892.80	901.10	880.55	836.02	831.30	845.67	840.58	822.01	817.22	864.01	882.56	850.80	872.15	880.78	882.30	831.40	753.30	742.46	781.74	810.46
-1	2145.31	2170.30	2115.89	1995.04	2028.50	1857.54	1917.70	1797.21	1945.77	1965.12	2120.84	2102.37	2040.92	1884.42	1889.05	1966.85	1983.94	1723.72	1643.69	1759.67	1906.12	1942.79
-2	721.48	745.53	794.46	719.16	724.29	689.80	696.13	688.81	729.57	837.26	718.45	730.50	658.43	687.55	668.02	743.42	707.22	655.65	722.45	729.33	704.71	734.50
totaal	4825.87	4894.69	4936.13	4776.90	4806.44	4565.14	4634.64	4527.34	4714.55	4805.97	4859.93	4907.62	4781.89	4623.75	4640.41	4831.28	4824.08	4451.72	4355.03	4393.60	4569.77	4663.76

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4400.dat  
 uitvoerfiles:i:\scratch\boschloo\4400t.uit,i:\scratch\boschloo\4400t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -117.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:3.47  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4186.0 + 3.5 t  
 periode: 2 ben(t)= 4181.6 + 3.5 t  
 periode: 3 ben(t)= 4187.0 + 3.5 t + 26.9 sin(wt - 1.1)  
 periode: 4 ben(t)= 4187.1 + 3.5 t + 41.4 sin(wt - 1.2)  
 periode: 5 ben(t)= 4186.7 + 3.5 t + 69.1 sin(wt + 0.5)  
 periode: 6 ben(t)= 4193.3 + 3.5 t + 93.9 sin(wt - 0.9)  
 periode: 7 ben(t)= 4191.4 + 3.5 t +118.8 sin(wt + 0.6)  
 periode: 8 ben(t)= 4177.5 + 3.5 t +130.5 sin(wt - 1.1)  
 periode: 9 ben(t)= 4178.5 + 3.5 t +144.4 sin(wt - 1.3)  
 periode: 10 ben(t)= 4183.1 + 3.5 t +171.2 sin(wt + 0.5)  
 periode: 11 ben(t)= 4186.0 + 3.5 t +167.7 sin(wt - 1.5)  
 periode: 12 ben(t)= 4189.0 + 3.5 t +142.3 sin(wt - 1.1)  
 periode: 13 ben(t)= 4192.8 + 3.5 t +120.1 sin(wt - 1.1)  
 periode: 14 ben(t)= 4196.0 + 3.5 t +106.2 sin(wt - 1.5)  
 periode: 15 ben(t)= 4197.7 + 3.5 t + 97.9 sin(wt + 0.8)  
 periode: 16 ben(t)= 4197.8 + 3.5 t + 92.6 sin(wt - 0.3)  
 periode: 17 ben(t)= 4196.9 + 3.5 t + 89.3 sin(wt + 1.4)  
 periode: 18 ben(t)= 4195.4 + 3.5 t + 87.6 sin(wt - 0.2)  
 periode: 19 ben(t)= 4193.4 + 3.5 t + 87.1 sin(wt + 1.2)  
 periode: 20 ben(t)= 4191.1 + 3.5 t + 87.7 sin(wt - 0.7)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	99.29	101.24	107.07	106.61	119.98	118.59	117.41	118.23	119.84	122.34	120.35	117.03	142.51	121.00	127.49	133.42	130.29	138.76	153.77	154.33	158.79	158.45
3	415.79	421.23	425.33	431.05	436.74	440.34	445.28	448.59	454.79	455.42	455.98	450.94	466.26	458.31	454.10	460.76	459.75	466.28	475.38	467.45	457.98	455.02
2	543.51	556.10	556.91	566.57	581.17	585.92	593.70	593.99	589.82	587.88	569.61	569.98	563.23	566.13	570.02	580.30	580.48	583.26	582.40	556.05	543.86	544.30
1	721.30	745.81	751.52	798.06	802.50	761.01	764.79	743.08	720.28	681.30	701.70	758.25	768.60	756.04	748.22	740.43	734.41	715.57	693.81	685.23	687.48	693.23
-1	1831.21	1915.50	2114.80	1975.12	1955.10	1838.37	1806.20	1698.99	1716.93	1721.51	2075.60	2033.17	2039.34	1989.07	1804.13	1820.17	1819.17	1935.25	1736.96	1699.03	1777.07	1851.66
-2	690.52	725.08	759.38	749.04	711.83	708.27	636.64	632.91	647.38	729.04	766.80	753.17	729.61	722.18	676.32	675.37	617.85	691.58	637.82	625.30	620.35	688.10
totaal	4301.62	4464.97	4715.01	4626.45	4607.32	4452.49	4364.01	4235.78	4249.04	4297.49	4690.04	4682.53	4709.54	4612.72	4380.28	4410.44	4341.94	4530.71	4280.14	4187.40	4245.54	4390.76

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4425.dat  
 uitvoerfiles:i:\scratch\boschloo\4425t.uit,i:\scratch\boschloo\4425t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -185.00  
 zee grens: 810.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:3.79  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4717.2 + 3.8 t  
 periode: 2 ben(t)= 4710.7 + 3.8 t  
 periode: 3 ben(t)= 4717.3 + 3.8 t + 70.4 sin(wt + 1.0)  
 periode: 4 ben(t)= 4723.5 + 3.8 t +111.8 sin(wt + 1.3)  
 periode: 5 ben(t)= 4724.4 + 3.8 t +100.2 sin(wt - 0.8)  
 periode: 6 ben(t)= 4720.1 + 3.8 t + 41.3 sin(wt - 1.5)  
 periode: 7 ben(t)= 4721.2 + 3.8 t + 93.2 sin(wt + 0.3)  
 periode: 8 ben(t)= 4716.8 + 3.8 t + 72.9 sin(wt + 1.2)  
 periode: 9 ben(t)= 4728.8 + 3.8 t +150.9 sin(wt + 0.8)  
 periode: 10 ben(t)= 4727.8 + 3.8 t +211.4 sin(wt - 0.3)  
 periode: 11 ben(t)= 4717.2 + 3.8 t +228.4 sin(wt + 0.8)  
 periode: 12 ben(t)= 4707.2 + 3.8 t +208.1 sin(wt + 1.3)  
 periode: 13 ben(t)= 4704.8 + 3.8 t +173.7 sin(wt + 1.2)  
 periode: 14 ben(t)= 4709.8 + 3.8 t +144.9 sin(wt + 0.9)  
 periode: 15 ben(t)= 4717.0 + 3.8 t +131.4 sin(wt + 0.2)  
 periode: 16 ben(t)= 4722.8 + 3.8 t +130.1 sin(wt - 0.8)  
 periode: 17 ben(t)= 4726.0 + 3.8 t +134.7 sin(wt + 1.1)  
 periode: 18 ben(t)= 4727.1 + 3.8 t +141.9 sin(wt - 0.4)  
 periode: 19 ben(t)= 4726.3 + 3.8 t +150.3 sin(wt + 1.0)  
 periode: 20 ben(t)= 4724.2 + 3.8 t +159.7 sin(wt - 0.9)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	99.50	105.69	105.40	109.84	117.19	116.26	123.24	130.15	138.04	146.51	154.62	162.65	161.77	167.72	168.25	178.70	181.50	204.42	225.16	219.83	139.89	147.85
3	401.87	397.23	388.23	388.69	390.12	393.54	395.81	399.48	407.31	406.03	422.50	409.17	409.30	413.35	412.52	415.27	414.33	422.34	430.86	420.15	335.38	343.11
2	609.11	573.60	558.92	566.83	594.22	605.20	610.44	616.96	620.12	613.42	598.25	579.63	572.99	582.69	589.02	604.45	608.48	613.87	615.73	597.01	500.06	516.77
1	931.56	926.10	891.46	979.86	1012.44	988.21	955.81	995.72	930.03	905.70	921.00	956.10	971.73	984.94	1002.11	985.87	959.08	963.82	994.22	920.89	818.08	866.67
-1	1875.26	2178.81	2371.22	2239.67	2316.08	2112.07	2160.63	2077.12	1966.45	1992.29	2093.29	2072.76	2329.73	2322.54	2280.79	2223.79	2116.77	2042.04	2087.38	2129.83	2005.12	2144.18
-2	730.66	792.30	817.85	833.91	775.75	811.83	782.20	690.38	684.48	760.46	838.55	779.74	812.77	810.83	797.49	800.71	755.67	723.53	759.87	716.21	689.46	754.57
totaal	4647.95	4973.73	5133.09	5118.81	5205.80	5027.11	5028.13	4909.81	4746.43	4824.40	5028.21	4960.05	5258.29	5282.08	5250.18	5208.78	5035.84	4970.02	5113.23	5003.92	4487.99	4773.15



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4475.dat  
 uitvoerfiles:i:\scratch\boschloo\4475t.uit,i:\scratch\boschloo\4475t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -125.00  
 zee grens: 810.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:4.43  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3893.9 + 4.4 t  
 periode: 2 ben(t)= 3922.1 + 4.4 t  
 periode: 3 ben(t)= 3893.0 + 4.4 t + 60.7 sin(wt + 0.7)  
 periode: 4 ben(t)= 3891.2 + 4.4 t + 44.8 sin(wt + 1.1)  
 periode: 5 ben(t)= 3899.7 + 4.4 t + 78.3 sin(wt - 0.9)  
 periode: 6 ben(t)= 3891.7 + 4.4 t + 29.6 sin(wt - 0.8)  
 periode: 7 ben(t)= 3892.5 + 4.4 t + 37.1 sin(wt + 1.2)  
 periode: 8 ben(t)= 3901.0 + 4.4 t + 84.8 sin(wt - 0.4)  
 periode: 9 ben(t)= 3909.2 + 4.4 t +125.1 sin(wt - 0.5)  
 periode: 10 ben(t)= 3904.8 + 4.4 t +156.9 sin(wt + 1.2)  
 periode: 11 ben(t)= 3893.9 + 4.4 t +184.1 sin(wt - 0.9)  
 periode: 12 ben(t)= 3881.7 + 4.4 t +192.0 sin(wt - 0.5)  
 periode: 13 ben(t)= 3873.1 + 4.4 t +184.3 sin(wt - 0.6)  
 periode: 14 ben(t)= 3871.0 + 4.4 t +169.0 sin(wt - 1.3)  
 periode: 15 ben(t)= 3873.4 + 4.4 t +154.5 sin(wt + 0.9)  
 periode: 16 ben(t)= 3877.4 + 4.4 t +145.3 sin(wt - 0.4)  
 periode: 17 ben(t)= 3881.5 + 4.4 t +141.8 sin(wt + 1.2)  
 periode: 18 ben(t)= 3885.1 + 4.4 t +142.9 sin(wt - 0.5)  
 periode: 19 ben(t)= 3888.0 + 4.4 t +147.4 sin(wt + 0.8)  
 periode: 20 ben(t)= 3890.4 + 4.4 t +154.5 sin(wt - 1.2)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.01
	0.10	0.79	0.00	0.66	0.00	2.80	3.07	6.66	7.02	12.13	12.75
3	367.81	370.38	367.45	370.48	378.52	376.72	380.46	384.39	389.31	403.48	385.12
	389.64	384.95	375.02	377.80	345.03	382.07	386.26	389.10	374.03	380.47	394.06
2	543.74	546.77	526.28	529.29	532.28	533.01	530.96	532.33	533.40	539.28	533.48
	532.43	510.72	513.14	513.28	523.90	515.86	527.01	529.03	527.37	534.84	539.88
1	727.08	666.80	672.65	682.02	689.89	730.12	745.78	796.93	775.95	768.98	653.16
	678.31	697.29	687.61	711.56	679.43	748.84	688.26	734.34	738.00	755.91	742.16
-1	1742.67	1710.20	1943.57	1775.91	1956.90	1961.42	1895.17	2028.62	2005.13	1917.42	1620.03
	1570.38	1982.73	1707.93	1962.67	1883.49	1892.58	2014.98	2021.63	1932.00	1900.50	1903.81
-2	653.83	642.84	689.61	696.72	811.42	787.08	741.92	727.32	703.80	707.75	623.70
	685.67	732.06	656.67	742.00	752.30	724.17	772.88	734.20	736.33	721.00	732.74
totaal	4035.13	3936.98	4199.56	4054.41	4369.00	4388.35	4294.28	4469.58	4407.60	4337.35	3815.51
	3856.53	4308.53	3940.38	4307.96	4184.15	4266.33	4392.47	4414.96	4314.76	4304.85	4325.41

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4500.dat  
 uitvoerfiles:i:\scratch\boschloo\4500t.uit,i:\scratch\boschloo\4500t.prn  
 i:\scratch\boschloo\tfoot.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -145.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:4.75  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4352.4 + 4.7 t  
 periode: 2 ben(t)= 4361.7 + 4.7 t  
 periode: 3 ben(t)= 4351.8 + 4.7 t + 12.8 sin(wt - 0.4)  
 periode: 4 ben(t)= 4348.7 + 4.7 t + 59.8 sin(wt + 0.5)  
 periode: 5 ben(t)= 4352.1 + 4.7 t + 52.6 sin(wt + 0.6)  
 periode: 6 ben(t)= 4354.1 + 4.7 t + 23.3 sin(wt - 1.4)  
 periode: 7 ben(t)= 4350.8 + 4.7 t + 34.7 sin(wt + 0.9)  
 periode: 8 ben(t)= 4358.0 + 4.7 t + 74.4 sin(wt - 0.8)  
 periode: 9 ben(t)= 4359.1 + 4.7 t + 88.7 sin(wt - 1.1)  
 periode: 10 ben(t)= 4354.3 + 4.7 t +112.0 sin(wt + 0.5)  
 periode: 11 ben(t)= 4352.4 + 4.7 t +124.2 sin(wt + 1.4)  
 periode: 12 ben(t)= 4355.1 + 4.7 t +120.7 sin(wt + 1.6)  
 periode: 13 ben(t)= 4360.8 + 4.7 t +117.7 sin(wt + 1.2)  
 periode: 14 ben(t)= 4365.8 + 4.7 t +116.9 sin(wt + 0.5)  
 periode: 15 ben(t)= 4368.0 + 4.7 t +115.5 sin(wt - 0.5)  
 periode: 16 ben(t)= 4367.9 + 4.7 t +113.8 sin(wt + 1.5)  
 periode: 17 ben(t)= 4366.3 + 4.7 t +112.9 sin(wt + 0.1)  
 periode: 18 ben(t)= 4363.9 + 4.7 t +113.2 sin(wt - 1.5)  
 periode: 19 ben(t)= 4361.2 + 4.7 t +115.0 sin(wt - 0.1)  
 periode: 20 ben(t)= 4358.3 + 4.7 t +118.2 sin(wt + 1.1)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	110.46	109.65	105.70	105.97	114.79	112.23	110.28	117.25	124.16	122.05	131.00	132.62	134.66	137.75	142.25	142.25	153.94	161.25	182.43	173.92	179.15	173.52
3	390.51	395.64	398.05	396.31	398.48	398.80	399.62	401.19	405.23	408.53	412.58	413.59	410.30	408.42	406.30	406.30	413.73	409.34	409.57	408.76	418.36	416.10
2	602.90	606.29	606.31	587.10	584.87	577.16	579.28	583.80	587.28	591.09	591.91	598.64	569.27	569.98	579.24	579.24	586.56	585.44	587.35	591.17	592.50	595.94
1	902.21	864.52	849.69	791.77	820.81	816.87	876.72	883.68	895.75	902.13	867.86	860.89	824.64	826.78	900.10	858.16	864.59	854.27	802.16	869.17	868.04	901.01
-1	1976.78	1810.82	1835.03	1767.58	2005.33	2070.17	1992.75	2045.99	2129.27	2169.94	2033.75	1924.51	2091.13	2016.93	1974.90	1921.83	1982.24	2013.73	1978.01	2057.96	1904.58	2061.06
-2	652.97	625.65	653.20	629.36	780.02	761.40	792.95	700.80	743.33	818.34	661.13	705.77	697.75	683.67	750.87	777.67	749.86	768.17	779.37	794.61	735.67	768.81
totaal	4635.83	4412.58	4447.98	4278.09	4704.30	4736.65	4751.60	4732.71	4885.03	5012.08	4698.23	4636.03	4727.75	4643.53	4753.65	4685.45	4750.93	4792.20	4738.89	4895.59	4698.30	4916.43

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4525.dat  
 uitvoerfiles:i:\scratch\boschloo\4525t.uit,i:\scratch\boschloo\4525t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -141.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:5.07  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4041.9 + 5.1 t  
 periode: 2 ben(t)= 4045.1 + 5.1 t  
 periode: 3 ben(t)= 4040.7 + 5.1 t + 28.7 sin(wt - 0.9)  
 periode: 4 ben(t)= 4042.0 + 5.1 t + 22.9 sin(wt - 0.9)  
 periode: 5 ben(t)= 4038.4 + 5.1 t + 50.1 sin(wt - 1.2)  
 periode: 6 ben(t)= 4041.0 + 5.1 t + 15.0 sin(wt - 0.4)  
 periode: 7 ben(t)= 4040.2 + 5.1 t + 37.2 sin(wt + 0.8)  
 periode: 8 ben(t)= 4044.3 + 5.1 t + 28.1 sin(wt - 0.5)  
 periode: 9 ben(t)= 4042.0 + 5.1 t + 15.5 sin(wt + 1.4)  
 periode: 10 ben(t)= 4040.1 + 5.1 t + 36.5 sin(wt - 0.3)  
 periode: 11 ben(t)= 4041.9 + 5.1 t + 55.2 sin(wt + 0.7)  
 periode: 12 ben(t)= 4046.7 + 5.1 t + 68.0 sin(wt + 0.9)  
 periode: 13 ben(t)= 4051.9 + 5.1 t + 75.4 sin(wt + 0.7)  
 periode: 14 ben(t)= 4055.0 + 5.1 t + 76.4 sin(wt + 0.1)  
 periode: 15 ben(t)= 4055.5 + 5.1 t + 73.4 sin(wt - 0.8)  
 periode: 16 ben(t)= 4054.3 + 5.1 t + 69.6 sin(wt + 1.2)  
 periode: 17 ben(t)= 4052.4 + 5.1 t + 66.6 sin(wt - 0.2)  
 periode: 18 ben(t)= 4050.3 + 5.1 t + 64.9 sin(wt + 1.4)  
 periode: 19 ben(t)= 4048.1 + 5.1 t + 64.6 sin(wt - 0.3)  
 periode: 20 ben(t)= 4046.0 + 5.1 t + 65.3 sin(wt + 1.0)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	118.30	119.83	107.08	122.06	129.39	120.32	124.96	123.96	124.74	122.94	128.31	127.60	127.16	124.14	122.21	139.92	135.04	134.81	151.45	144.37	145.25	150.06
3	312.60	315.22	319.15	322.18	327.18	324.77	327.50	330.46	335.97	334.89	341.24	344.49	346.46	344.58	344.56	357.65	356.41	358.48	357.64	349.30	343.06	342.22
2	502.76	509.05	509.42	508.34	511.83	505.33	507.17	510.50	507.06	508.44	514.51	515.92	510.31	503.30	515.52	534.95	520.16	519.50	509.13	484.74	478.82	483.41
1	823.41	839.22	822.03	797.39	800.43	790.62	819.14	821.55	813.16	836.58	810.74	852.65	819.86	830.29	830.85	845.09	817.13	805.24	791.77	753.88	738.51	825.01
-1	1815.13	1905.37	1874.60	1793.00	1801.17	1839.01	2085.98	1889.47	1932.87	2065.89	1930.64	2048.67	1971.67	2041.81	1878.00	1834.30	1930.00	1793.00	1894.81	1931.67	2106.71	2028.50
-2	685.08	658.96	654.56	631.80	710.33	673.82	764.25	713.64	652.18	734.66	679.36	661.00	630.50	639.76	707.00	743.00	739.44	747.00	757.48	794.33	783.17	740.43
totaal	4257.28	4347.66	4286.85	4174.76	4280.33	4253.88	4628.99	4389.58	4365.99	4603.41	4404.79	4550.32	4405.95	4483.90	4398.14	4454.92	4498.18	4358.03	4462.28	4458.30	4595.51	4569.63



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4550.dat  
 uitvoerfiles:i:\scratch\boschloo\4550t.uit,i:\scratch\boschloo\4550t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -150.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:5.39  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4290.5 + 5.4 t  
 periode: 2 ben(t)= 4298.5 + 5.4 t  
 periode: 3 ben(t)= 4288.7 + 5.4 t + 42.1 sin(wt - 0.2)  
 periode: 4 ben(t)= 4288.1 + 5.4 t + 46.6 sin(wt + 1.4)  
 periode: 5 ben(t)= 4284.1 + 5.4 t + 89.7 sin(wt - 0.7)  
 periode: 6 ben(t)= 4298.8 + 5.4 t +104.9 sin(wt - 1.0)  
 periode: 7 ben(t)= 4291.1 + 5.4 t + 46.8 sin(wt - 1.2)  
 periode: 8 ben(t)= 4291.5 + 5.4 t + 63.0 sin(wt + 1.4)  
 periode: 9 ben(t)= 4290.2 + 5.4 t + 53.5 sin(wt + 1.3)  
 periode: 10 ben(t)= 4288.9 + 5.4 t + 35.4 sin(wt - 0.2)  
 periode: 11 ben(t)= 4290.5 + 5.4 t + 28.2 sin(wt - 0.2)  
 periode: 12 ben(t)= 4293.3 + 5.4 t + 40.8 sin(wt - 0.4)  
 periode: 13 ben(t)= 4295.0 + 5.4 t + 48.6 sin(wt - 0.8)  
 periode: 14 ben(t)= 4294.7 + 5.4 t + 52.0 sin(wt + 1.5)  
 periode: 15 ben(t)= 4293.2 + 5.4 t + 55.4 sin(wt + 0.4)  
 periode: 16 ben(t)= 4291.5 + 5.4 t + 60.2 sin(wt - 0.9)  
 periode: 17 ben(t)= 4290.3 + 5.4 t + 66.1 sin(wt + 0.7)  
 periode: 18 ben(t)= 4289.6 + 5.4 t + 72.8 sin(wt - 0.9)  
 periode: 19 ben(t)= 4289.3 + 5.4 t + 80.3 sin(wt + 0.4)  
 periode: 20 ben(t)= 4289.4 + 5.4 t + 88.4 sin(wt - 1.5)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	142.89	86.23	83.89	99.56	110.91	111.07	111.85	113.27	114.22	115.11	112.50	105.66	92.75	101.63	96.22	111.01	106.34	93.83	106.89	95.20	104.53	107.99
3	534.15	456.45	460.87	488.24	502.12	496.73	497.32	501.31	502.19	498.32	500.30	489.42	480.02	489.77	483.43	496.08	491.14	488.73	495.37	507.32	491.57	491.37
2	612.23	551.81	560.70	576.07	583.77	584.27	584.79	596.50	605.71	611.29	616.42	603.80	594.89	600.06	605.92	622.07	616.88	608.88	597.18	585.13	549.38	548.03
1	866.98	802.27	798.01	805.58	809.21	775.69	765.49	801.09	781.07	772.43	783.52	788.20	760.52	825.97	782.41	817.59	823.55	791.81	776.67	694.19	644.22	734.52
-1	2203.95	2048.18	2004.88	2048.96	1993.10	1966.11	2023.05	1829.68	1954.02	1992.45	2047.14	2154.83	1993.08	2001.66	1939.42	1996.50	2098.56	2018.45	1882.17	1857.18	1975.67	2039.46
-2	771.55	723.30	703.14	702.92	703.33	762.82	724.12	666.56	717.27	734.00	703.79	728.67	601.76	601.86	670.97	695.33	723.56	728.97	750.76	778.17	809.83	768.65
totaal	5131.75	4668.23	4611.49	4721.33	4702.45	4696.70	4706.62	4508.40	4674.47	4723.59	4763.68	4870.57	4523.03	4620.95	4578.36	4738.57	4860.02	4730.66	4609.04	4517.19	4575.21	4690.03

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4575.dat  
 uitvoerfiles:i:\scratch\boschloo\4575t.uit,i:\scratch\boschloo\4575t.prn  
 i:\scratch\boschloo\tfout.prn  
 i:\scratch\boschloo\trend.prn

landgrens: -159.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:5.71  
 amplitude:vrij  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3915.5 + 5.7 t  
 periode: 2 ben(t)= 3929.6 + 5.7 t  
 periode: 3 ben(t)= 3914.6 + 5.7 t + 20.2 sin(wt - 0.5)  
 periode: 4 ben(t)= 3911.2 + 5.7 t + 67.3 sin(wt + 0.7)  
 periode: 5 ben(t)= 3911.0 + 5.7 t + 64.9 sin(wt - 1.2)  
 periode: 6 ben(t)= 3914.1 + 5.7 t + 49.3 sin(wt + 0.1)  
 periode: 7 ben(t)= 3912.9 + 5.7 t + 89.2 sin(wt - 0.2)  
 periode: 8 ben(t)= 3916.4 + 5.7 t +112.7 sin(wt + 1.3)  
 periode: 9 ben(t)= 3910.2 + 5.7 t + 99.2 sin(wt + 1.0)  
 periode: 10 ben(t)= 3911.2 + 5.7 t + 61.1 sin(wt - 0.6)  
 periode: 11 ben(t)= 3915.5 + 5.7 t + 48.6 sin(wt - 0.9)  
 periode: 12 ben(t)= 3915.9 + 5.7 t + 79.8 sin(wt - 1.3)  
 periode: 13 ben(t)= 3909.9 + 5.7 t +110.6 sin(wt + 1.4)  
 periode: 14 ben(t)= 3901.2 + 5.7 t +139.3 sin(wt + 0.6)  
 periode: 15 ben(t)= 3894.6 + 5.7 t +162.4 sin(wt - 0.4)  
 periode: 16 ben(t)= 3891.7 + 5.7 t +180.1 sin(wt + 1.5)  
 periode: 17 ben(t)= 3891.9 + 5.7 t +195.0 sin(wt + 0.1)  
 periode: 18 ben(t)= 3894.4 + 5.7 t +209.3 sin(wt - 1.5)  
 periode: 19 ben(t)= 3898.4 + 5.7 t +224.3 sin(wt - 0.1)  
 periode: 20 ben(t)= 3903.4 + 5.7 t +240.6 sin(wt + 1.1)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	193.87	199.63	145.15	97.87	97.46	99.82	97.57	99.57	100.88	96.25	95.52
	97.23	128.32	124.91	114.94	124.75	121.37	130.61	138.40	142.35	140.37	138.92
3	374.10	377.91	331.09	286.35	283.43	286.15	280.12	280.78	280.51	279.77	288.73
	292.71	319.70	312.53	314.08	310.91	311.88	319.21	311.46	318.52	314.83	316.65
2	467.31	475.14	429.78	386.13	386.36	385.98	387.32	394.20	401.72	404.41	414.55
	405.35	408.89	405.30	417.98	422.50	422.76	423.60	414.13	416.71	406.28	409.71
1	844.32	835.51	811.59	746.69	733.47	709.04	708.92	725.62	715.09	706.37	705.65
	710.18	713.03	755.53	714.53	782.75	794.35	781.17	784.59	714.96	677.41	737.05
-1	2309.33	2041.91	2152.28	1978.11	2030.50	2005.65	2066.24	2015.19	2000.92	2013.88	2027.08
	2012.64	2030.04	2049.31	2038.75	2064.83	2108.58	2166.00	1913.67	1932.60	1890.10	1958.56
-2	791.33	682.93	746.61	703.29	781.50	746.15	717.76	701.26	709.58	783.01	644.94
	677.95	622.52	632.62	664.33	669.00	658.83	701.50	705.83	798.50	807.00	733.54
totaal	4980.27	4613.02	4616.48	4198.43	4312.71	4232.80	4257.94	4216.63	4208.70	4283.69	4176.47
	4196.06	4222.50	4280.20	4264.61	4374.75	4417.78	4522.10	4268.08	4323.63	4235.99	4294.43

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4600.dat
uitvoerfiles:i:\scratch\boschloo\4600t.uit,i:\scratch\boschloo\4600t.prn
i:\scratch\boschloo\tfout.prn
i:\scratch\boschloo\trend.prn

```

```

landgrens: -215.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:6.03
amplitude:vrij
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4698.9 + 6.0 t
periode: 2  ben(t)= 4689.2 + 6.0 t
periode: 3  ben(t)= 4698.5 + 6.0 t + 45.5 sin(wt + 0.8)
periode: 4  ben(t)= 4700.0 + 6.0 t + 23.7 sin(wt + 0.0)
periode: 5  ben(t)= 4698.9 + 6.0 t + 37.9 sin(wt + 0.6)
periode: 6  ben(t)= 4698.6 + 6.0 t + 8.7 sin(wt + 1.0)
periode: 7  ben(t)= 4699.8 + 6.0 t +161.5 sin(wt - 1.0)
periode: 8  ben(t)= 4693.6 + 6.0 t +197.2 sin(wt + 0.9)
periode: 9  ben(t)= 4688.4 + 6.0 t +166.9 sin(wt + 0.9)
periode: 10 ben(t)= 4692.5 + 6.0 t +106.0 sin(wt - 0.5)
periode: 11 ben(t)= 4698.9 + 6.0 t + 65.4 sin(wt - 0.3)
periode: 12 ben(t)= 4703.3 + 6.0 t + 86.1 sin(wt - 0.7)
periode: 13 ben(t)= 4703.4 + 6.0 t +107.1 sin(wt - 1.2)
periode: 14 ben(t)= 4700.4 + 6.0 t +122.6 sin(wt + 1.2)
periode: 15 ben(t)= 4696.9 + 6.0 t +136.9 sin(wt + 0.1)
periode: 16 ben(t)= 4694.5 + 6.0 t +151.2 sin(wt - 1.1)
periode: 17 ben(t)= 4693.4 + 6.0 t +166.0 sin(wt + 0.6)
periode: 18 ben(t)= 4693.3 + 6.0 t +181.6 sin(wt - 1.1)
periode: 19 ben(t)= 4694.0 + 6.0 t +198.6 sin(wt + 0.3)
periode: 20 ben(t)= 4695.3 + 6.0 t +217.2 sin(wt + 1.5)

```

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	65.37	67.86	53.64	67.88	52.40	62.02	58.18	83.48	137.62	123.15	112.40	108.34	99.58	115.23	116.07	123.38	136.65	164.16	179.21	183.99	202.17	209.06
3	270.63	279.40	258.35	267.14	241.21	239.75	233.36	273.60	291.22	295.25	312.10	442.83	436.63	448.66	452.37	459.30	467.83	478.91	490.91	495.50	505.51	511.37
2	549.35	552.54	532.27	538.41	510.19	503.55	497.17	536.14	599.75	603.96	616.28	658.82	655.28	658.77	672.79	687.77	693.33	692.79	691.24	694.09	699.66	708.50
1	895.42	917.85	891.05	943.80	899.05	871.13	866.00	946.59	997.15	1007.54	998.94	1041.41	960.69	1020.99	1047.49	1089.95	1066.34	1093.97	1073.50	1015.48	1044.83	1053.21
-1	2491.77	2301.47	2517.85	2294.11	2245.42	2151.31	2267.25	2356.67	2302.08	2349.85	2312.40	2348.20	2159.57	2240.25	2261.00	2397.96	2356.90	2522.50	2296.44	2185.55	2105.25	2097.57
-2	867.92	795.37	809.93	745.68	746.03	745.14	807.08	740.40	755.11	812.45	750.58	760.80	682.53	675.61	668.25	700.00	689.00	735.17	762.50	820.64	848.00	807.78
totaal	5140.46	4914.48	5063.10	4857.02	4694.30	4572.90	4729.04	4936.88	5082.94	5192.20	5102.69	5360.40	4994.28	5159.52	5217.98	5458.36	5410.05	5687.50	5493.80	5395.24	5405.43	5387.49

\* Regressie-functies behorend bij de berekeningen met opgelegde trend  
en amplitude (tweede gegeven verloop)

\* Kuberingswaarden per laag met dikte 5m en van het totale profiel  
voor de raaien 30.25 tot en met 46.00

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3025.dat
uitvoerfiles:i:\scratch\boschloo\3025ta.uit,i:\scratch\boschloo\3025ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -365.00
zeegrens: 660.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-14.13
amplitude:82.30
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4808.5 -14.1 t
periode: 2  ben(t)= 4808.5 -14.1 t
periode: 3  ben(t)= 4805.6 -14.1 t +82.3 sin(wt + 0.1)
periode: 4  ben(t)= 4803.3 -14.1 t +82.3 sin(wt + 0.6)
periode: 5  ben(t)= 4810.4 -14.1 t +82.3 sin(wt + 0.3)
periode: 6  ben(t)= 4808.2 -14.1 t +82.3 sin(wt + 0.6)
periode: 7  ben(t)= 4806.3 -14.1 t +82.3 sin(wt - 0.3)
periode: 8  ben(t)= 4803.3 -14.1 t +82.3 sin(wt + 0.3)
periode: 9  ben(t)= 4797.9 -14.1 t +82.3 sin(wt - 0.0)
periode: 10 ben(t)= 4815.3 -14.1 t +82.3 sin(wt + 1.6)
periode: 11 ben(t)= 4808.5 -14.1 t +82.3 sin(wt + 1.6)
periode: 12 ben(t)= 4811.3 -14.1 t +82.3 sin(wt - 0.9)
periode: 13 ben(t)= 4807.0 -14.1 t +82.3 sin(wt + 1.6)
periode: 14 ben(t)= 4801.4 -14.1 t +82.3 sin(wt + 1.6)
periode: 15 ben(t)= 4806.7 -14.1 t +82.3 sin(wt + 0.1)
periode: 16 ben(t)= 4798.7 -14.1 t +82.3 sin(wt + 1.6)
periode: 17 ben(t)= 4824.2 -14.1 t +82.3 sin(wt - 0.6)
periode: 18 ben(t)= 4817.4 -14.1 t +82.3 sin(wt + 1.6)
periode: 19 ben(t)= 4804.0 -14.1 t +82.3 sin(wt + 0.1)
periode: 20 ben(t)= 4807.4 -14.1 t +82.3 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
2	112.39	132.25	125.24	103.21	86.74	124.46	115.67	119.98	137.98	139.26	156.52
	213.40	231.93	254.24	276.02	315.55	328.60	348.97	371.56	364.16	396.86	379.43
1	1007.46	978.79	976.55	931.22	878.80	866.19	821.20	810.96	826.17	808.36	804.32
	877.60	857.62	838.46	842.53	837.83	825.70	826.35	826.68	850.21	864.37	842.49
-1	2137.00	2111.90	2080.25	2027.41	1884.06	1872.09	1810.86	1917.29	1974.23	2019.78	2009.66
	1946.00	1910.50	2049.70	1970.12	1973.80	1952.40	1931.34	1847.65	1901.30	1968.02	1906.40
-2	857.00	729.70	702.01	749.97	729.07	706.41	686.34	780.47	729.14	772.47	686.47
	867.00	690.83	685.80	637.49	621.45	674.00	635.89	667.21	660.70	646.04	673.85
totaal	4113.85	3952.83	3884.07	3811.81	3578.67	3569.15	3434.07	3628.70	3667.53	3739.87	3656.98
	3904.00	3690.88	3828.20	3726.17	3748.64	3780.70	3742.55	3713.10	3776.38	3875.29	3802.18

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3050.dat  
 uitvoerfiles:i:\scratch\boschloo\3050ta.uit,i:\scratch\boschloo\3050ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -335.00  
 zeegrens: 660.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-13.81  
 amplitude:82.74  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4076.9 -13.8 t  
 periode: 2 ben(t)= 4076.9 -13.8 t  
 periode: 3 ben(t)= 4073.2 -13.8 t +82.7 sin(wt - 0.7)  
 periode: 4 ben(t)= 4072.0 -13.8 t +82.7 sin(wt + 0.4)  
 periode: 5 ben(t)= 4072.0 -13.8 t +82.7 sin(wt + 1.6)  
 periode: 6 ben(t)= 4079.0 -13.8 t +82.7 sin(wt + 0.2)  
 periode: 7 ben(t)= 4074.6 -13.8 t +82.7 sin(wt + 1.6)  
 periode: 8 ben(t)= 4071.3 -13.8 t +82.7 sin(wt + 0.2)  
 periode: 9 ben(t)= 4066.1 -13.8 t +82.7 sin(wt - 0.1)  
 periode: 10 ben(t)= 4083.7 -13.8 t +82.7 sin(wt + 1.6)  
 periode: 11 ben(t)= 4076.9 -13.8 t +82.7 sin(wt + 1.5)  
 periode: 12 ben(t)= 4078.1 -13.8 t +82.7 sin(wt - 1.1)  
 periode: 13 ben(t)= 4075.3 -13.8 t +82.7 sin(wt + 1.6)  
 periode: 14 ben(t)= 4092.4 -13.8 t +82.7 sin(wt - 0.8)  
 periode: 15 ben(t)= 4094.5 -13.8 t +82.7 sin(wt + 1.6)  
 periode: 16 ben(t)= 4067.0 -13.8 t +82.7 sin(wt + 1.6)  
 periode: 17 ben(t)= 4078.0 -13.8 t +82.7 sin(wt + 0.7)  
 periode: 18 ben(t)= 4085.9 -13.8 t +82.7 sin(wt + 1.6)  
 periode: 19 ben(t)= 4086.5 -13.8 t +82.7 sin(wt + 1.6)  
 periode: 20 ben(t)= 4075.7 -13.8 t +82.7 sin(wt + 1.6)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
3	31.40	42.09	38.38	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	130.27	139.02	120.77	79.93	44.17	27.86	23.66	0.00	0.00	1.89	0.00
1	623.35	583.47	530.90	508.90	494.13	503.42	460.26	443.30	441.00	443.59	463.94
-1	2107.73	1930.79	1787.64	1713.27	1723.88	1715.25	1734.91	1822.66	1565.03	1787.47	1600.56
-2	828.17	773.33	693.69	676.39	687.55	683.75	688.42	724.51	623.94	651.63	635.15
totaal	3720.93	3468.70	3171.39	2982.32	2949.73	2930.27	2907.25	2990.47	2629.97	2884.58	2699.65
	3029.12	2838.26	3177.63	2955.09	2938.94	2971.13	3110.38	3104.17	3116.45	3118.35	3359.32

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3075.dat
uitvoerfiles:i:\scratch\boschloo\3075ta.uit,i:\scratch\boschloo\3075ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -337.00
zeegrens: 660.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-13.49
amplitude:83.18
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4544.6  -13.5 t
periode: 2  ben(t)= 4544.6  -13.5 t
periode: 3  ben(t)= 4541.9  -13.5 t +83.2 sin(wt + 0.3)
periode: 4  ben(t)= 4539.7  -13.5 t +83.2 sin(wt + 0.4)
periode: 5  ben(t)= 4541.4  -13.5 t +83.2 sin(wt + 1.2)
periode: 6  ben(t)= 4549.6  -13.5 t +83.2 sin(wt - 0.3)
periode: 7  ben(t)= 4540.8  -13.5 t +83.2 sin(wt + 0.6)
periode: 8  ben(t)= 4538.0  -13.5 t +83.2 sin(wt - 0.1)
periode: 9  ben(t)= 4533.8  -13.5 t +83.2 sin(wt - 0.1)
periode: 10 ben(t)= 4543.6  -13.5 t +83.2 sin(wt + 0.2)
periode: 11 ben(t)= 4544.6  -13.5 t +83.2 sin(wt - 0.4)
periode: 12 ben(t)= 4551.9  -13.5 t +83.2 sin(wt + 0.3)
periode: 13 ben(t)= 4533.6  -13.5 t +83.2 sin(wt - 0.4)
periode: 14 ben(t)= 4546.0  -13.5 t +83.2 sin(wt + 1.0)
periode: 15 ben(t)= 4562.3  -13.5 t +83.2 sin(wt + 1.6)
periode: 16 ben(t)= 4528.8  -13.5 t +83.2 sin(wt + 0.1)
periode: 17 ben(t)= 4532.5  -13.5 t +83.2 sin(wt + 1.6)
periode: 18 ben(t)= 4553.3  -13.5 t +83.2 sin(wt - 0.2)
periode: 19 ben(t)= 4554.2  -13.5 t +83.2 sin(wt + 1.6)
periode: 20 ben(t)= 4539.2  -13.5 t +83.2 sin(wt - 0.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
3	41.98	47.59	45.63	46.31	54.74	45.33	39.62	39.63	18.05	1.20	1.61
	1.16	1.87	1.80	2.75	3.28	2.75	5.01	11.28	7.95	16.25	11.42
2	312.34	316.01	306.90	307.57	310.03	306.62	295.09	288.66	272.83	239.91	203.30
	179.03	169.17	179.16	235.89	234.35	235.89	264.34	274.73	252.47	274.47	267.42
1	886.26	840.99	836.06	810.37	783.73	842.02	820.77	824.65	779.61	707.31	692.76
	741.36	681.71	718.17	708.06	669.63	708.06	664.63	633.90	597.74	625.84	619.31
-1	1928.00	1857.72	1901.26	1861.67	1837.74	1923.77	1819.06	1843.34	1812.14	1722.33	1821.11
	1906.39	1799.90	1768.59	1756.24	1855.47	1880.33	1765.52	1738.56	1816.09	1777.23	1904.64
-2	827.67	668.03	699.22	710.38	739.06	723.83	722.71	728.60	691.28	659.39	668.87
	761.42	676.94	654.23	638.71	646.74	635.17	661.60	660.28	661.83	642.24	726.52
totaal	3996.25	3730.35	3789.07	3736.30	3725.30	3841.57	3697.25	3724.87	3573.92	3330.14	3387.65
	3589.35	3329.59	3321.96	3341.65	3409.47	3462.20	3361.10	3318.74	3336.09	3336.03	3529.31





```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3125.dat
uitvoerfiles:i:\scratch\boschloo\3125ta.uit,i:\scratch\boschloo\3125ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -270.00
zeegrens: 660.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-12.85
amplitude:84.07
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3845.3  -12.9 t
periode: 2  ben(t)= 3845.3  -12.9 t
periode: 3  ben(t)= 3842.9  -12.9 t  +84.1 sin(wt + 0.4)
periode: 4  ben(t)= 3847.0  -12.9 t  +84.1 sin(wt - 1.1)
periode: 5  ben(t)= 3849.4  -12.9 t  +84.1 sin(wt - 0.1)
periode: 6  ben(t)= 3844.1  -12.9 t  +84.1 sin(wt + 0.7)
periode: 7  ben(t)= 3841.6  -12.9 t  +84.1 sin(wt + 0.5)
periode: 8  ben(t)= 3848.0  -12.9 t  +84.1 sin(wt + 1.6)
periode: 9  ben(t)= 3847.2  -12.9 t  +84.1 sin(wt + 1.6)
periode: 10 ben(t)= 3843.1  -12.9 t  +84.1 sin(wt + 0.0)
periode: 11 ben(t)= 3845.3  -12.9 t  +84.1 sin(wt + 0.1)
periode: 12 ben(t)= 3852.5  -12.9 t  +84.1 sin(wt + 0.5)
periode: 13 ben(t)= 3840.6  -12.9 t  +84.1 sin(wt - 1.1)
periode: 14 ben(t)= 3838.1  -12.9 t  +84.1 sin(wt + 1.6)
periode: 15 ben(t)= 3834.7  -12.9 t  +84.1 sin(wt - 0.4)
periode: 16 ben(t)= 3835.3  -12.9 t  +84.1 sin(wt + 1.6)
periode: 17 ben(t)= 3833.1  -12.9 t  +84.1 sin(wt + 1.6)
periode: 18 ben(t)= 3854.4  -12.9 t  +84.1 sin(wt + 1.6)
periode: 19 ben(t)= 3855.1  -12.9 t  +84.1 sin(wt + 1.6)
periode: 20 ben(t)= 3844.2  -12.9 t  +84.1 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
3	0.07	2.38	3.81	3.52	12.93	18.02	16.50	7.07	1.48	1.59	0.00
	0.00	0.00	0.00	4.29	16.01	10.57	17.96	16.70	0.00	0.00	0.00
2	65.81	72.31	75.24	84.80	106.98	113.92	129.94	133.00	146.72	151.78	126.84
	113.76	93.52	83.98	101.65	115.80	117.38	125.26	117.15	28.55	49.73	62.10
1	487.34	470.76	516.45	557.36	570.70	560.02	553.74	523.97	521.13	511.58	450.56
	462.69	452.20	492.38	502.73	499.53	430.15	396.71	379.83	358.08	432.73	417.75
-1	1539.00	1577.52	1891.15	1859.58	1667.67	1730.07	1779.33	1623.73	1642.13	1544.84	1675.93
	1574.25	1629.25	1625.06	1680.13	1672.83	1445.18	1530.12	1573.23	1638.67	1642.08	1891.00
-2	713.83	625.48	690.25	666.76	636.00	676.26	684.17	663.18	626.21	660.49	651.26
	644.55	648.33	631.76	571.20	607.44	522.05	616.00	623.08	661.83	675.58	707.00
totaal	2806.06	2748.45	3176.91	3172.02	2994.28	3098.28	3163.68	2950.95	2937.66	2870.28	2904.58
	2795.25	2823.31	2833.19	2860.00	2911.62	2525.33	2686.05	2709.99	2687.13	2800.13	3077.85

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3150.dat
uitvoerfiles:i:\scratch\boschloo\3150ta.uit,i:\scratch\boschloo\3150ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -240.00
zeegrens: 690.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-12.53
amplitude:84.51
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3628.5 -12.5 t
periode: 2  ben(t)= 3628.5 -12.5 t
periode: 3  ben(t)= 3625.0 -12.5 t +84.5 sin(wt - 0.1)
periode: 4  ben(t)= 3623.5 -12.5 t +84.5 sin(wt + 1.2)
periode: 5  ben(t)= 3634.4 -12.5 t +84.5 sin(wt - 0.6)
periode: 6  ben(t)= 3631.8 -12.5 t +84.5 sin(wt + 0.0)
periode: 7  ben(t)= 3624.7 -12.5 t +84.5 sin(wt + 0.5)
periode: 8  ben(t)= 3631.3 -12.5 t +84.5 sin(wt + 1.6)
periode: 9  ben(t)= 3630.5 -12.5 t +84.5 sin(wt + 1.6)
periode: 10 ben(t)= 3621.5 -12.5 t +84.5 sin(wt - 1.0)
periode: 11 ben(t)= 3628.5 -12.5 t +84.5 sin(wt + 0.1)
periode: 12 ben(t)= 3635.2 -12.5 t +84.5 sin(wt + 0.7)
periode: 13 ben(t)= 3623.7 -12.5 t +84.5 sin(wt - 1.1)
periode: 14 ben(t)= 3630.4 -12.5 t +84.5 sin(wt + 1.0)
periode: 15 ben(t)= 3621.5 -12.5 t +84.5 sin(wt - 0.2)
periode: 16 ben(t)= 3618.4 -12.5 t +84.5 sin(wt + 1.6)
periode: 17 ben(t)= 3617.4 -12.5 t +84.5 sin(wt + 1.5)
periode: 18 ben(t)= 3637.7 -12.5 t +84.5 sin(wt + 1.6)
periode: 19 ben(t)= 3617.5 -12.5 t +84.5 sin(wt - 1.2)
periode: 20 ben(t)= 3627.4 -12.5 t +84.5 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	4.43
2	31.77	24.68	25.40	21.40	41.95	49.41	63.09	81.45	97.11	102.08	96.50
	108.13	85.89	83.89	137.60	137.60	129.25	138.94	142.22	130.37	155.54	160.98
1	361.05	379.42	401.37	399.44	428.32	437.69	421.71	441.15	449.64	451.02	396.81
	433.95	410.95	447.08	399.40	399.40	406.91	385.22	360.34	398.23	436.05	432.19
-1	1433.30	1460.44	1538.81	1773.08	1746.11	1677.47	1502.97	1376.99	1491.74	1657.82	1512.77
	1543.65	1685.01	1652.25	1403.36	1469.02	1516.06	1493.69	1531.66	1620.38	1778.69	1696.85
-2	704.11	552.93	575.73	626.11	642.69	628.53	619.44	599.57	606.04	640.89	632.91
	620.08	631.50	641.08	542.29	606.13	518.67	611.94	614.83	649.00	664.76	669.08
totaal	2530.23	2417.46	2541.31	2820.02	2859.07	2793.10	2607.21	2499.17	2644.52	2851.81	2638.99
	2705.81	2813.35	2824.31	2482.65	2612.15	2570.89	2629.80	2649.05	2797.98	3035.47	2963.53



```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3200.dat
uitvoerfiles:i:\scratch\boschloo\3200ta.uit,i:\scratch\boschloo\3200ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -279.00
zeegrens: 690.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-11.89
amplitude:85.39
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4444.3  -11.9 t
periode: 2  ben(t)= 4444.3  -11.9 t
periode: 3  ben(t)= 4440.5  -11.9 t  +85.4 sin(wt - 0.4)
periode: 4  ben(t)= 4439.7  -11.9 t  +85.4 sin(wt + 0.2)
periode: 5  ben(t)= 4450.1  -11.9 t  +85.4 sin(wt - 0.5)
periode: 6  ben(t)= 4443.2  -11.9 t  +85.4 sin(wt + 0.7)
periode: 7  ben(t)= 4440.5  -11.9 t  +85.4 sin(wt + 0.8)
periode: 8  ben(t)= 4445.4  -11.9 t  +85.4 sin(wt + 1.3)
periode: 9  ben(t)= 4446.3  -11.9 t  +85.4 sin(wt + 1.6)
periode: 10 ben(t)= 4439.8  -11.9 t  +85.4 sin(wt - 0.3)
periode: 11 ben(t)= 4444.3  -11.9 t  +85.4 sin(wt + 1.6)
periode: 12 ben(t)= 4446.3  -11.9 t  +85.4 sin(wt + 1.6)
periode: 13 ben(t)= 4439.8  -11.9 t  +85.4 sin(wt - 1.1)
periode: 14 ben(t)= 4459.4  -11.9 t  +85.4 sin(wt + 0.0)
periode: 15 ben(t)= 4454.0  -11.9 t  +85.4 sin(wt + 0.8)
periode: 16 ben(t)= 4436.4  -11.9 t  +85.4 sin(wt - 0.5)
periode: 17 ben(t)= 4458.5  -11.9 t  +85.4 sin(wt - 0.3)
periode: 18 ben(t)= 4457.3  -11.9 t  +85.4 sin(wt + 0.3)
periode: 19 ben(t)= 4441.7  -11.9 t  +85.4 sin(wt + 0.3)
periode: 20 ben(t)= 4436.7  -11.9 t  +85.4 sin(wt + 0.1)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	20.64	20.24	17.39	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	121.12	121.89	111.70	73.01	37.75	41.61	18.39	19.02	21.40	19.99	26.63
	29.29	19.73	31.93	38.47	45.52	46.38	59.85	71.30	79.63	90.37	97.94
2	304.01	285.43	243.22	198.17	160.53	162.12	176.67	215.20	215.25	234.22	236.98
	278.59	253.00	267.08	269.27	271.21	269.53	271.71	275.18	281.00	286.88	291.62
1	804.27	759.63	730.61	690.53	662.44	691.43	731.11	772.55	751.94	745.11	724.27
	691.69	682.71	729.75	722.06	716.94	694.23	684.75	699.26	726.47	700.91	690.87
-1	1883.25	1787.79	1691.50	1725.91	1749.18	1866.87	1889.74	2041.03	2017.60	1990.84	1870.70
	1852.43	1878.31	1824.32	1876.84	1899.25	1778.07	1814.56	2000.57	2038.87	1803.67	1724.00
-2	754.50	619.16	634.02	656.89	728.17	638.21	693.38	742.72	754.34	735.03	689.27
	721.45	684.69	679.53	583.56	628.23	544.27	596.17	629.01	694.47	694.92	645.40
totaal	3887.79	3594.13	3428.44	3344.54	3338.07	3400.25	3509.29	3790.52	3760.54	3725.19	3547.84
	3573.45	3518.45	3532.61	3490.21	3561.15	3332.48	3427.04	3675.32	3820.44	3576.76	3449.83

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3225.dat
uitvoerfiles:i:\scratch\boschloo\3225ta.uit,i:\scratch\boschloo\3225ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -262.00
zeegrens: 720.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-11.57
amplitude:85.83
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4690.5  -11.6 t
periode: 2  ben(t)= 4690.5  -11.6 t
periode: 3  ben(t)= 4686.9  -11.6 t  +85.8 sin(wt - 0.2)
periode: 4  ben(t)= 4685.2  -11.6 t  +85.8 sin(wt + 0.5)
periode: 5  ben(t)= 4696.7  -11.6 t  +85.8 sin(wt - 0.8)
periode: 6  ben(t)= 4696.9  -11.6 t  +85.8 sin(wt - 0.7)
periode: 7  ben(t)= 4688.6  -11.6 t  +85.8 sin(wt - 0.4)
periode: 8  ben(t)= 4686.9  -11.6 t  +85.8 sin(wt + 0.7)
periode: 9  ben(t)= 4692.5  -11.6 t  +85.8 sin(wt + 1.6)
periode: 10 ben(t)= 4687.3  -11.6 t  +85.8 sin(wt - 0.1)
periode: 11 ben(t)= 4690.5  -11.6 t  +85.8 sin(wt + 1.6)
periode: 12 ben(t)= 4692.5  -11.6 t  +85.8 sin(wt + 1.6)
periode: 13 ben(t)= 4688.9  -11.6 t  +85.8 sin(wt + 1.6)
periode: 14 ben(t)= 4704.3  -11.6 t  +85.8 sin(wt + 0.2)
periode: 15 ben(t)= 4708.8  -11.6 t  +85.8 sin(wt + 1.6)
periode: 16 ben(t)= 4680.3  -11.6 t  +85.8 sin(wt + 1.6)
periode: 17 ben(t)= 4707.2  -11.6 t  +85.8 sin(wt - 0.6)
periode: 18 ben(t)= 4699.8  -11.6 t  +85.8 sin(wt + 1.6)
periode: 19 ben(t)= 4696.3  -11.6 t  +85.8 sin(wt + 1.0)
periode: 20 ben(t)= 4685.3  -11.6 t  +85.8 sin(wt - 0.7)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	0.00	0.00	0.00	0.00	0.00	0.59	1.94	6.21	6.18	7.09	16.39
	18.47	20.99	24.35	20.62	23.52	22.04	30.14	38.70	36.89	36.31	31.80
3	173.98	142.82	134.51	184.86	201.99	213.94	217.63	209.15	193.43	207.45	219.08
	214.14	219.82	220.89	212.74	205.61	208.25	193.47	193.34	189.96	188.86	183.29
2	409.28	412.36	413.18	409.44	409.88	385.85	385.61	385.22	374.87	384.74	385.60
	394.13	379.19	376.63	358.19	360.32	347.29	335.93	345.58	331.40	322.53	331.58
1	823.16	794.48	775.13	752.22	725.61	708.37	724.90	782.60	767.06	754.44	747.66
	770.82	747.12	727.15	653.26	654.43	675.12	728.26	716.24	692.91	656.91	665.92
-1	1891.58	1740.70	1703.69	1786.52	1797.85	1731.68	1729.63	2052.74	2054.58	1926.29	1951.56
	1962.16	1931.93	1731.92	1666.47	1738.40	1752.29	2007.57	2083.81	1928.52	1827.55	1658.05
-2	713.58	625.60	649.77	631.18	648.96	648.90	608.06	737.04	754.92	725.58	690.26
	696.63	681.66	669.88	578.11	713.55	554.69	609.42	657.31	680.43	667.61	672.70
totaal	4011.59	3715.96	3676.28	3764.22	3784.29	3689.34	3667.76	4172.97	4151.04	4005.58	4010.54
	4056.34	3980.70	3750.81	3489.39	3695.83	3559.68	3904.78	4034.97	3860.12	3699.77	3543.34

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3250.dat  
 uitvoerfiles:i:\scratch\boschloo\3250ta.uit,i:\scratch\boschloo\3250ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\ampita.prn

landgrens: -288.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-11.25  
 amplitude:86.27  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4940.8 -11.3 t  
 periode: 2 ben(t)= 4940.8 -11.3 t  
 periode: 3 ben(t)= 4937.5 -11.3 t +86.3 sin(wt + 0.1)  
 periode: 4 ben(t)= 4935.9 -11.3 t +86.3 sin(wt + 0.3)  
 periode: 5 ben(t)= 4944.5 -11.3 t +86.3 sin(wt + 0.0)  
 periode: 6 ben(t)= 4943.0 -11.3 t +86.3 sin(wt + 0.2)  
 periode: 7 ben(t)= 4939.7 -11.3 t +86.3 sin(wt - 0.6)  
 periode: 8 ben(t)= 4934.0 -11.3 t +86.3 sin(wt - 0.0)  
 periode: 9 ben(t)= 4929.6 -11.3 t +86.3 sin(wt - 0.1)  
 periode: 10 ben(t)= 4934.3 -11.3 t +86.3 sin(wt - 0.7)  
 periode: 11 ben(t)= 4940.8 -11.3 t +86.3 sin(wt - 0.0)  
 periode: 12 ben(t)= 4948.3 -11.3 t +86.3 sin(wt + 0.3)  
 periode: 13 ben(t)= 4928.4 -11.3 t +86.3 sin(wt - 0.3)  
 periode: 14 ben(t)= 4954.6 -11.3 t +86.3 sin(wt + 0.2)  
 periode: 15 ben(t)= 4935.3 -11.3 t +86.3 sin(wt - 0.1)  
 periode: 16 ben(t)= 4927.8 -11.3 t +86.3 sin(wt - 0.2)  
 periode: 17 ben(t)= 4945.9 -11.3 t +86.3 sin(wt + 0.4)  
 periode: 18 ben(t)= 4953.1 -11.3 t +86.3 sin(wt + 0.1)  
 periode: 19 ben(t)= 4931.1 -11.3 t +86.3 sin(wt - 0.5)  
 periode: 20 ben(t)= 4934.5 -11.3 t +86.3 sin(wt - 0.5)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	21.63	21.18	23.96	27.56	33.02	32.68	33.81	37.21	36.49	36.29	35.39
	37.57	36.07	33.81	33.83	35.99	34.41	35.23	31.36	6.62	9.27	0.00
3	178.30	182.64	183.04	185.40	189.60	190.89	192.21	192.42	187.15	185.97	177.39
	178.47	156.62	152.93	148.74	147.00	142.10	138.22	134.50	108.69	109.12	108.63
2	326.69	335.74	339.33	344.56	352.62	346.54	342.63	323.08	320.14	325.50	307.54
	309.03	280.66	284.56	284.43	292.74	267.30	266.25	265.02	228.97	240.70	325.95
1	942.99	970.28	975.09	981.51	937.12	915.12	908.50	883.75	907.28	846.79	859.84
	888.85	862.29	859.78	843.10	809.68	833.22	820.93	805.27	794.05	835.98	871.42
-1	2139.83	2159.25	2224.67	2053.79	2019.34	2033.76	1801.90	2037.00	2135.53	1978.26	2022.13
	1999.33	2004.71	1952.32	1841.20	1893.70	1955.67	1989.33	2161.55	1965.61	1892.30	2075.10
-2	764.17	667.00	707.68	716.51	733.91	724.81	638.60	747.79	736.75	743.23	724.63
	705.41	727.00	727.83	663.79	771.25	691.33	651.67	667.71	686.83	728.40	726.55
totaal	4373.61	4336.09	4453.77	4309.32	4265.61	4243.81	3917.66	4221.24	4323.34	4116.04	4126.91
	4118.66	4067.35	4011.24	3815.08	3950.36	3924.03	3901.63	4065.40	3790.78	3815.78	4107.65

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3275.dat
uitvoerfiles:i:\scratch\boschloo\3275ta.uit,i:\scratch\boschloo\3275ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -220.00
zeegrens: 720.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-10.93
amplitude:86.71
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4635.4  -10.9 t
periode: 2  ben(t)= 4635.4  -10.9 t
periode: 3  ben(t)= 4631.6  -10.9 t  +86.7 sin(wt - 0.2)
periode: 4  ben(t)= 4630.3  -10.9 t  +86.7 sin(wt + 0.4)
periode: 5  ben(t)= 4634.9  -10.9 t  +86.7 sin(wt + 0.7)
periode: 6  ben(t)= 4634.7  -10.9 t  +86.7 sin(wt + 0.6)
periode: 7  ben(t)= 4632.4  -10.9 t  +86.7 sin(wt - 0.0)
periode: 8  ben(t)= 4628.5  -10.9 t  +86.7 sin(wt - 0.7)
periode: 9  ben(t)= 4629.0  -10.9 t  +86.7 sin(wt - 1.2)
periode: 10 ben(t)= 4628.5  -10.9 t  +86.7 sin(wt - 0.8)
periode: 11 ben(t)= 4635.4  -10.9 t  +86.7 sin(wt + 0.6)
periode: 12 ben(t)= 4641.3  -10.9 t  +86.7 sin(wt - 0.4)
periode: 13 ben(t)= 4621.9  -10.9 t  +86.7 sin(wt + 0.2)
periode: 14 ben(t)= 4643.0  -10.9 t  +86.7 sin(wt + 0.7)
periode: 15 ben(t)= 4653.8  -10.9 t  +86.7 sin(wt + 1.6)
periode: 16 ben(t)= 4617.4  -10.9 t  +86.7 sin(wt + 0.9)
periode: 17 ben(t)= 4622.7  -10.9 t  +86.7 sin(wt + 1.6)
periode: 18 ben(t)= 4632.9  -10.9 t  +86.7 sin(wt - 1.0)
periode: 19 ben(t)= 4645.4  -10.9 t  +86.7 sin(wt + 1.6)
periode: 20 ben(t)= 4628.0  -10.9 t  +86.7 sin(wt - 0.2)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	44.39	43.73	41.89	44.74	44.23	44.16	45.01	46.22	46.03	35.24	51.70
	46.26	47.80	47.80	37.65	45.43	47.04	46.29	46.15	35.73	37.65	37.50
3	271.73	272.43	273.28	278.36	282.17	283.16	283.66	283.25	282.73	279.70	280.61
	273.27	249.78	249.78	239.35	248.65	255.68	250.03	251.03	226.70	227.12	226.49
2	433.71	433.78	443.37	448.56	456.53	463.52	453.60	445.61	434.36	432.09	418.28
	415.81	388.57	388.57	385.99	397.77	403.48	396.12	394.04	365.38	370.92	372.04
1	713.60	728.02	713.86	754.17	737.64	735.74	671.79	667.31	653.25	618.93	632.76
	617.16	607.15	607.15	606.48	612.23	666.69	614.12	582.98	572.69	638.24	633.84
-1	1912.73	2091.54	2066.12	1994.45	1812.53	1836.04	1711.73	1756.01	1713.90	1623.66	1760.25
	1649.41	1821.27	1675.56	1686.90	1780.90	1760.75	1610.66	1759.90	1764.17	1858.27	1890.51
-2	692.67	648.38	669.03	684.00	682.88	665.30	595.47	645.26	617.03	596.30	632.15
	606.49	687.58	585.95	611.74	751.29	566.27	626.40	639.00	666.57	695.37	698.89
totaal	4068.83	4217.88	4207.55	4204.27	4015.98	4027.90	3761.25	3843.66	3747.31	3585.92	3775.75
	3608.40	3802.15	3554.80	3568.11	3836.26	3699.90	3543.63	3673.10	3631.24	3827.58	3859.27





```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3325.dat
uitvoerfiles:i:\scratch\boschloo\3325ta.uit,i:\scratch\boschloo\3325ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -132.00
zeegrens: 720.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-10.29
amplitude:87.60
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3019.8  -10.3 t
periode: 2  ben(t)= 3019.8  -10.3 t
periode: 3  ben(t)= 3016.8  -10.3 t  +87.6 sin(wt + 0.2)
periode: 4  ben(t)= 3014.5  -10.3 t  +87.6 sin(wt + 0.5)
periode: 5  ben(t)= 3023.3  -10.3 t  +87.6 sin(wt + 0.1)
periode: 6  ben(t)= 3025.1  -10.3 t  +87.6 sin(wt - 0.3)
periode: 7  ben(t)= 3017.3  -10.3 t  +87.6 sin(wt + 1.6)
periode: 8  ben(t)= 3012.6  -10.3 t  +87.6 sin(wt - 0.2)
periode: 9  ben(t)= 3008.7  -10.3 t  +87.6 sin(wt + 0.1)
periode: 10 ben(t)= 3021.5  -10.3 t  +87.6 sin(wt + 0.5)
periode: 11 ben(t)= 3019.8  -10.3 t  +87.6 sin(wt - 0.5)
periode: 12 ben(t)= 3027.5  -10.3 t  +87.6 sin(wt + 0.3)
periode: 13 ben(t)= 3007.6  -10.3 t  +87.6 sin(wt - 0.4)
periode: 14 ben(t)= 3030.0  -10.3 t  +87.6 sin(wt + 0.5)
periode: 15 ben(t)= 3009.4  -10.3 t  +87.6 sin(wt - 0.4)
periode: 16 ben(t)= 3005.5  -10.3 t  +87.6 sin(wt - 0.1)
periode: 17 ben(t)= 3025.7  -10.3 t  +87.6 sin(wt + 0.4)
periode: 18 ben(t)= 3032.1  -10.3 t  +87.6 sin(wt + 0.1)
periode: 19 ben(t)= 3011.4  -10.3 t  +87.6 sin(wt - 0.3)
periode: 20 ben(t)= 3012.8  -10.3 t  +87.6 sin(wt - 0.3)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
3	0.00	0.00	0.17	0.00	0.00	0.00	0.75	2.89	7.08	7.58	2.97
	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	125.96	133.64	131.15	107.12	96.26	99.76	101.89	108.15	106.78	106.78	73.46
	63.19	47.15	44.61	53.79	60.45	59.31	66.25	69.09	58.63	46.88	46.29
1	321.69	299.07	276.34	225.40	267.20	286.03	305.33	318.74	251.79	247.24	166.51
	262.08	224.60	236.03	259.05	305.16	271.32	227.35	224.67	211.88	191.36	189.99
-1	1313.50	1282.53	1196.12	1105.79	1424.61	1450.90	1344.57	1338.19	1406.35	1152.40	1235.34
	1324.58	1423.00	1378.75	1285.88	1292.71	1221.00	1310.72	1403.38	1390.33	1332.55	1309.67
-2	628.00	623.42	642.44	618.46	627.89	640.93	601.83	606.81	600.48	572.13	571.42
	582.54	623.21	611.42	550.38	594.67	549.29	584.43	605.48	582.77	623.70	605.67
totaal	2389.16	2338.66	2246.22	2056.77	2415.96	2477.62	2354.37	2374.77	2372.49	2086.14	2049.71
	2232.61	2317.96	2270.81	2149.08	2252.99	2100.92	2188.76	2302.62	2243.61	2194.49	2151.61

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3350.dat
uitvoerfiles:i:\scratch\boschloo\3350ta.uit,i:\scratch\boschloo\3350ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -200.00
zeegrens: 720.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-9.97
amplitude:88.04
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4324.7  -10.0 t
periode: 2  ben(t)= 4324.7  -10.0 t
periode: 3  ben(t)= 4320.9  -10.0 t +88.0 sin(wt - 0.1)
periode: 4  ben(t)= 4319.7  -10.0 t +88.0 sin(wt + 0.3)
periode: 5  ben(t)= 4325.5  -10.0 t +88.0 sin(wt + 0.5)
periode: 6  ben(t)= 4328.9  -10.0 t +88.0 sin(wt - 0.1)
periode: 7  ben(t)= 4321.1  -10.0 t +88.0 sin(wt + 0.2)
periode: 8  ben(t)= 4327.5  -10.0 t +88.0 sin(wt + 1.6)
periode: 9  ben(t)= 4326.7  -10.0 t +88.0 sin(wt + 1.6)
periode: 10 ben(t)= 4323.2  -10.0 t +88.0 sin(wt + 0.1)
periode: 11 ben(t)= 4324.7  -10.0 t +88.0 sin(wt - 0.6)
periode: 12 ben(t)= 4332.3  -10.0 t +88.0 sin(wt + 0.4)
periode: 13 ben(t)= 4311.1  -10.0 t +88.0 sin(wt - 0.0)
periode: 14 ben(t)= 4341.4  -10.0 t +88.0 sin(wt - 0.8)
periode: 15 ben(t)= 4343.4  -10.0 t +88.0 sin(wt + 1.6)
periode: 16 ben(t)= 4310.3  -10.0 t +88.0 sin(wt - 0.1)
periode: 17 ben(t)= 4311.8  -10.0 t +88.0 sin(wt + 1.6)
periode: 18 ben(t)= 4336.2  -10.0 t +88.0 sin(wt + 0.0)
periode: 19 ben(t)= 4334.8  -10.0 t +88.0 sin(wt + 1.6)
periode: 20 ben(t)= 4318.5  -10.0 t +88.0 sin(wt + 0.8)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	15.59	16.76	14.03	10.89	2.14	6.99	7.36	7.84	9.60	8.78	9.09
	12.12	10.20	8.63	10.33	12.67	13.62	12.05	9.73	1.86	2.48	1.59
3	276.09	283.22	261.44	241.00	213.20	215.97	212.83	217.62	223.21	213.21	215.58
	228.80	225.63	216.52	216.80	225.44	227.43	226.08	208.94	181.31	191.39	173.01
2	530.73	523.55	473.09	454.10	439.56	426.36	425.66	431.54	434.60	440.03	436.50
	433.61	417.51	418.25	427.17	435.72	429.96	420.39	405.08	385.23	381.83	378.42
1	676.16	615.49	583.78	550.72	531.43	552.03	568.74	613.87	601.24	570.48	548.20
	544.14	586.87	632.93	591.45	600.61	563.33	492.35	527.92	516.96	510.11	508.25
-1	1640.25	1592.38	1646.17	1416.33	1477.04	1627.92	1671.27	1896.80	1753.66	1799.70	1660.27
	1719.09	1784.40	1733.37	1623.37	1593.43	1723.32	1654.39	1730.57	1727.29	1688.24	1621.77
-2	699.50	679.50	692.72	623.67	741.57	731.33	686.92	698.53	654.44	675.31	713.30
	694.10	667.10	658.74	589.53	640.87	693.43	728.11	650.45	661.60	653.05	648.73
totaal	3838.32	3710.90	3671.24	3296.71	3404.95	3560.60	3572.78	3866.21	3676.75	3707.51	3582.94
	3631.85	3691.70	3668.44	3458.65	3508.75	3651.08	3533.36	3532.70	3474.25	3427.08	3331.77

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3375.dat
uitvoerfiles:i:\scratch\boschloo\3375ta.uit,i:\scratch\boschloo\3375ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -220.00
zeegrens: 720.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-9.65
amplitude:88.48
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4512.5 - 9.7 t
periode: 2  ben(t)= 4512.5 - 9.7 t
periode: 3  ben(t)= 4508.9 - 9.7 t +88.5 sin(wt - 0.1)
periode: 4  ben(t)= 4507.6 - 9.7 t +88.5 sin(wt + 0.3)
periode: 5  ben(t)= 4517.8 - 9.7 t +88.5 sin(wt - 0.3)
periode: 6  ben(t)= 4513.3 - 9.7 t +88.5 sin(wt + 0.4)
periode: 7  ben(t)= 4510.2 - 9.7 t +88.5 sin(wt - 0.3)
periode: 8  ben(t)= 4515.4 - 9.7 t +88.5 sin(wt + 1.6)
periode: 9  ben(t)= 4508.9 - 9.7 t +88.5 sin(wt + 1.1)
periode: 10 ben(t)= 4511.5 - 9.7 t +88.5 sin(wt + 0.2)
periode: 11 ben(t)= 4512.5 - 9.7 t +88.5 sin(wt - 0.1)
periode: 12 ben(t)= 4520.2 - 9.7 t +88.5 sin(wt + 0.1)
periode: 13 ben(t)= 4498.7 - 9.7 t +88.5 sin(wt + 0.1)
periode: 14 ben(t)= 4527.0 - 9.7 t +88.5 sin(wt - 1.1)
periode: 15 ben(t)= 4531.3 - 9.7 t +88.5 sin(wt + 1.6)
periode: 16 ben(t)= 4500.9 - 9.7 t +88.5 sin(wt - 0.3)
periode: 17 ben(t)= 4499.6 - 9.7 t +88.5 sin(wt + 1.6)
periode: 18 ben(t)= 4526.4 - 9.7 t +88.5 sin(wt + 0.3)
periode: 19 ben(t)= 4522.7 - 9.7 t +88.5 sin(wt + 1.6)
periode: 20 ben(t)= 4505.2 - 9.7 t +88.5 sin(wt + 0.5)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	16.83	13.40	19.14	24.75	27.48	28.74	21.74	15.23	16.99	20.21	27.45
	31.84	29.30	2.52	1.15	2.45	0.74	3.17	1.60	0.90	4.25	4.10
3	207.78	208.26	210.26	201.92	200.00	194.56	249.19	245.64	250.46	254.51	261.66
	260.51	283.00	264.80	266.88	282.78	277.07	295.32	279.46	237.84	249.56	229.80
2	613.16	602.35	559.49	544.72	533.24	516.62	504.59	496.41	495.83	506.42	511.29
	516.53	495.62	503.30	509.09	518.91	517.43	518.25	490.83	449.45	435.93	437.40
1	739.60	675.71	638.34	656.36	628.97	626.52	613.97	649.73	688.72	654.29	687.35
	649.36	646.42	685.96	678.08	665.30	688.45	616.53	580.71	587.46	560.18	579.82
-1	1660.15	1583.34	1632.26	1642.77	1575.41	1556.45	1549.75	1911.91	1916.79	1813.74	1676.44
	1685.76	1765.03	1788.24	1861.88	1621.15	1748.56	1605.71	1799.48	1621.87	1682.30	1830.27
-2	676.60	670.49	680.34	614.59	708.48	681.05	707.50	706.19	694.58	698.23	608.50
	685.82	659.47	628.23	630.50	658.18	653.39	692.07	677.42	669.13	642.32	683.33
totaal	3914.13	3753.55	3739.83	3685.12	3673.58	3603.95	3646.75	4025.11	4063.38	3947.40	3772.68
	3829.82	3878.85	3873.06	3947.57	3748.78	3885.63	3731.05	3829.50	3566.65	3574.54	3764.73

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3400.dat
uitvoerfiles:i:\scratch\boschloo\3400ta.uit,i:\scratch\boschloo\3400ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -216.00
zeegrens: 720.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-9.33
amplitude:88.92
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4235.1 - 9.3 t
periode: 2  ben(t)= 4235.1 - 9.3 t
periode: 3  ben(t)= 4231.2 - 9.3 t +88.9 sin(wt - 0.4)
periode: 4  ben(t)= 4229.7 - 9.3 t +88.9 sin(wt + 1.1)
periode: 5  ben(t)= 4235.0 - 9.3 t +88.9 sin(wt + 0.7)
periode: 6  ben(t)= 4236.5 - 9.3 t +88.9 sin(wt + 0.3)
periode: 7  ben(t)= 4232.2 - 9.3 t +88.9 sin(wt - 0.1)
periode: 8  ben(t)= 4229.9 - 9.3 t +88.9 sin(wt + 0.4)
periode: 9  ben(t)= 4223.9 - 9.3 t +88.9 sin(wt + 0.1)
periode: 10 ben(t)= 4228.2 - 9.3 t +88.9 sin(wt - 0.8)
periode: 11 ben(t)= 4235.1 - 9.3 t +88.9 sin(wt + 0.3)
periode: 12 ben(t)= 4242.7 - 9.3 t +88.9 sin(wt + 0.0)
periode: 13 ben(t)= 4221.3 - 9.3 t +88.9 sin(wt + 0.2)
periode: 14 ben(t)= 4252.8 - 9.3 t +88.9 sin(wt - 0.5)
periode: 15 ben(t)= 4238.5 - 9.3 t +88.9 sin(wt + 0.4)
periode: 16 ben(t)= 4217.7 - 9.3 t +88.9 sin(wt + 0.2)
periode: 17 ben(t)= 4249.7 - 9.3 t +88.9 sin(wt - 0.2)
periode: 18 ben(t)= 4243.3 - 9.3 t +88.9 sin(wt - 0.3)
periode: 19 ben(t)= 4230.2 - 9.3 t +88.9 sin(wt + 0.1)
periode: 20 ben(t)= 4227.4 - 9.3 t +88.9 sin(wt + 0.4)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	10.19	21.62	34.66	29.73	31.41	34.14	16.98	3.39	2.01	2.27	1.36
	5.84	5.82	6.67	8.71	11.18	9.65	14.69	19.69	11.70	17.49	18.07
3	206.75	199.55	192.11	186.36	175.74	166.26	156.60	143.50	146.46	144.09	139.25
	158.22	154.78	158.87	172.14	175.11	171.47	182.66	194.50	175.83	188.04	194.20
2	474.98	461.71	450.42	438.30	411.38	388.61	378.95	356.82	354.80	365.99	357.35
	367.97	374.24	374.02	383.45	398.83	395.87	396.23	385.18	373.25	380.01	392.35
1	660.50	663.60	649.14	622.57	587.93	567.87	559.14	559.21	596.39	595.86	590.66
	630.39	614.33	599.60	609.07	635.21	656.24	583.81	538.91	570.65	645.39	642.16
-1	1640.82	1711.68	1562.05	1578.98	1623.60	1597.20	1559.83	1795.67	1768.37	1754.92	1783.64
	1679.59	1934.65	1625.60	1752.63	1796.06	1746.49	1667.56	1663.06	1684.57	1811.75	1796.04
-2	651.18	619.22	543.38	575.19	675.43	620.30	716.65	643.83	660.38	754.00	696.47
	641.83	646.25	591.04	583.88	680.86	611.38	650.25	630.49	668.93	697.33	646.00
totaal	3644.43	3677.38	3431.75	3431.13	3505.49	3374.38	3388.15	3502.42	3528.40	3617.13	3568.73
	3483.84	3730.08	3355.80	3509.88	3697.24	3591.09	3495.19	3431.85	3484.92	3740.01	3688.83

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3425.dat  
 uitvoerfiles:i:\scratch\boschloo\3425ta.uit,i:\scratch\boschloo\3425ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -218.00  
 zeegrens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-9.01  
 amplitude:89.36  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4295.1 - 9.0 t  
 periode: 2 ben(t)= 4295.1 - 9.0 t  
 periode: 3 ben(t)= 4291.7 - 9.0 t +89.4 sin(wt - 1.1)  
 periode: 4 ben(t)= 4289.6 - 9.0 t +89.4 sin(wt + 0.5)  
 periode: 5 ben(t)= 4293.9 - 9.0 t +89.4 sin(wt + 0.8)  
 periode: 6 ben(t)= 4299.9 - 9.0 t +89.4 sin(wt - 0.2)  
 periode: 7 ben(t)= 4291.6 - 9.0 t +89.4 sin(wt + 0.2)  
 periode: 8 ben(t)= 4288.1 - 9.0 t +89.4 sin(wt - 0.1)  
 periode: 9 ben(t)= 4283.5 - 9.0 t +89.4 sin(wt - 0.1)  
 periode: 10 ben(t)= 4302.5 - 9.0 t +89.4 sin(wt + 1.6)  
 periode: 11 ben(t)= 4295.1 - 9.0 t +89.4 sin(wt + 0.2)  
 periode: 12 ben(t)= 4303.0 - 9.0 t +89.4 sin(wt + 0.2)  
 periode: 13 ben(t)= 4281.2 - 9.0 t +89.4 sin(wt + 0.0)  
 periode: 14 ben(t)= 4312.6 - 9.0 t +89.4 sin(wt - 0.3)  
 periode: 15 ben(t)= 4290.8 - 9.0 t +89.4 sin(wt - 0.0)  
 periode: 16 ben(t)= 4276.5 - 9.0 t +89.4 sin(wt + 0.3)  
 periode: 17 ben(t)= 4304.2 - 9.0 t +89.4 sin(wt + 0.2)  
 periode: 18 ben(t)= 4299.3 - 9.0 t +89.4 sin(wt - 0.6)  
 periode: 19 ben(t)= 4285.3 - 9.0 t +89.4 sin(wt - 0.5)  
 periode: 20 ben(t)= 4287.4 - 9.0 t +89.4 sin(wt + 0.4)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	16.09	14.67	14.96	11.81	13.38	10.10	5.25	1.26	1.26	1.26	1.30
	6.28	3.25	3.00	5.96	2.62	3.12	3.42	3.10	0.92	8.96	10.39
3	282.84	267.48	252.16	258.22	238.90	245.02	234.70	234.83	241.39	241.07	235.85
	247.74	238.72	243.29	249.04	255.48	252.83	253.32	259.01	231.73	277.71	279.21
2	547.52	521.75	505.16	500.65	473.09	460.97	454.68	417.64	435.74	434.43	406.88
	406.51	400.74	401.65	406.99	407.70	418.19	415.09	419.37	417.11	424.35	428.55
1	663.43	631.74	620.44	605.12	572.04	566.13	570.94	558.46	550.62	540.06	537.07
	583.97	556.08	578.84	572.97	596.53	600.18	620.95	575.46	561.10	627.64	629.26
-1	1672.70	1615.07	1497.32	1512.26	1638.31	1482.53	1554.32	1612.25	1521.83	1600.22	1920.70
	1743.38	1675.96	1772.91	1628.75	1787.55	1734.52	1723.47	1732.14	1869.13	1817.50	1877.17
-2	661.20	637.27	543.30	600.31	702.48	642.29	686.85	709.58	638.15	760.96	705.17
	663.78	686.75	623.04	587.17	672.89	608.84	631.40	613.90	667.83	702.80	699.94
totaal	3843.79	3687.96	3433.34	3488.37	3638.20	3407.03	3506.75	3534.02	3389.00	3578.00	3806.96
	3651.66	3561.50	3622.73	3450.87	3722.78	3617.68	3647.66	3602.97	3747.83	3858.95	3924.51

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3450.dat  
 uitvoerfiles:i:\scratch\boschloo\3450ta.uit,i:\scratch\boschloo\3450ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -217.00  
 zee grens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-8.69  
 amplitude:89.80  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4186.1 - 8.7 t  
 periode: 2 ben(t)= 4186.1 - 8.7 t  
 periode: 3 ben(t)= 4182.2 - 8.7 t +89.8 sin(wt - 0.2)  
 periode: 4 ben(t)= 4181.6 - 8.7 t +89.8 sin(wt + 0.1)  
 periode: 5 ben(t)= 4188.5 - 8.7 t +89.8 sin(wt + 0.2)  
 periode: 6 ben(t)= 4193.1 - 8.7 t +89.8 sin(wt - 0.9)  
 periode: 7 ben(t)= 4183.6 - 8.7 t +89.8 sin(wt - 0.2)  
 periode: 8 ben(t)= 4178.6 - 8.7 t +89.8 sin(wt - 0.5)  
 periode: 9 ben(t)= 4174.4 - 8.7 t +89.8 sin(wt - 0.1)  
 periode: 10 ben(t)= 4178.4 - 8.7 t +89.8 sin(wt - 1.4)  
 periode: 11 ben(t)= 4186.1 - 8.7 t +89.8 sin(wt + 0.0)  
 periode: 12 ben(t)= 4193.5 - 8.7 t +89.8 sin(wt - 0.1)  
 periode: 13 ben(t)= 4172.1 - 8.7 t +89.8 sin(wt + 0.2)  
 periode: 14 ben(t)= 4199.6 - 8.7 t +89.8 sin(wt + 0.3)  
 periode: 15 ben(t)= 4205.2 - 8.7 t +89.8 sin(wt + 1.6)  
 periode: 16 ben(t)= 4175.3 - 8.7 t +89.8 sin(wt + 1.6)  
 periode: 17 ben(t)= 4177.2 - 8.7 t +89.8 sin(wt + 1.3)  
 periode: 18 ben(t)= 4195.8 - 8.7 t +89.8 sin(wt + 1.6)  
 periode: 19 ben(t)= 4196.5 - 8.7 t +89.8 sin(wt + 1.6)  
 periode: 20 ben(t)= 4179.6 - 8.7 t +89.8 sin(wt + 0.8)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	23.48	26.87	25.54	15.82	18.23	14.44	3.01	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.57
3	218.28	221.99	220.83	213.49	214.16	209.43	203.79	173.96	170.00	165.32	160.37
	166.49	203.54	175.51	164.22	182.18	184.83	194.06	201.98	165.80	211.02	214.66
2	462.19	450.33	440.65	439.19	439.64	424.75	419.96	430.38	424.06	423.86	397.74
	398.32	391.57	392.28	394.83	399.00	404.55	409.49	412.20	413.50	423.50	424.18
1	633.78	606.19	627.00	612.12	576.23	586.26	571.88	560.96	539.24	530.83	530.50
	577.02	567.54	560.41	543.20	556.77	567.16	602.63	628.93	563.44	578.87	567.76
-1	1738.40	1706.93	1660.47	1672.63	1579.25	1603.33	1597.75	1378.07	1502.99	1629.08	1802.44
	1697.09	1696.72	1597.56	1578.24	1621.39	1665.78	1935.34	1899.50	1931.25	1754.72	1792.44
-2	698.30	682.17	610.02	643.91	720.25	739.17	629.04	663.27	685.94	700.67	622.90
	665.74	676.89	697.39	599.46	640.18	601.22	625.35	631.00	666.86	629.53	708.00
totaal	3774.44	3694.48	3584.51	3597.15	3547.76	3577.38	3425.43	3206.63	3322.23	3449.76	3513.94
	3504.67	3536.27	3423.14	3279.96	3399.51	3423.53	3766.88	3773.61	3740.84	3598.02	3707.60

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3475.dat
uitvoerfiles:i:\scratch\boschloo\3475ta.uit,i:\scratch\boschloo\3475ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -240.00
zeegrens: 720.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-8.37
amplitude:90.24
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4154.4 - 8.4 t
periode: 2  ben(t)= 4154.4 - 8.4 t
periode: 3  ben(t)= 4150.3 - 8.4 t +90.2 sin(wt - 0.5)
periode: 4  ben(t)= 4148.7 - 8.4 t +90.2 sin(wt + 0.9)
periode: 5  ben(t)= 4156.1 - 8.4 t +90.2 sin(wt + 0.4)
periode: 6  ben(t)= 4157.6 - 8.4 t +90.2 sin(wt + 0.1)
periode: 7  ben(t)= 4151.9 - 8.4 t +90.2 sin(wt + 1.6)
periode: 8  ben(t)= 4147.5 - 8.4 t +90.2 sin(wt + 0.0)
periode: 9  ben(t)= 4142.9 - 8.4 t +90.2 sin(wt + 0.1)
periode: 10 ben(t)= 4149.9 - 8.4 t +90.2 sin(wt - 0.3)
periode: 11 ben(t)= 4154.4 - 8.4 t +90.2 sin(wt + 0.3)
periode: 12 ben(t)= 4157.9 - 8.4 t +90.2 sin(wt - 0.9)
periode: 13 ben(t)= 4146.2 - 8.4 t +90.2 sin(wt + 1.1)
periode: 14 ben(t)= 4169.1 - 8.4 t +90.2 sin(wt + 0.2)
periode: 15 ben(t)= 4173.6 - 8.4 t +90.2 sin(wt + 1.6)
periode: 16 ben(t)= 4143.7 - 8.4 t +90.2 sin(wt + 1.6)
periode: 17 ben(t)= 4141.3 - 8.4 t +90.2 sin(wt + 1.6)
periode: 18 ben(t)= 4164.2 - 8.4 t +90.2 sin(wt + 1.6)
periode: 19 ben(t)= 4164.9 - 8.4 t +90.2 sin(wt + 1.6)
periode: 20 ben(t)= 4153.2 - 8.4 t +90.2 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	263.54	163.56	108.93	63.10	63.85	66.81	69.99	69.68	47.10	46.41	34.89
	37.21	38.81	64.90	66.12	64.47	60.70	60.36	58.31	57.38	58.18	57.83
3	377.17	266.44	205.58	145.98	149.21	152.72	165.69	165.21	146.24	143.11	125.02
	118.10	116.53	147.34	151.73	149.14	143.45	146.05	144.74	145.45	145.35	143.90
2	487.68	380.81	320.05	262.50	269.55	271.25	283.81	287.23	265.00	235.50	226.24
	221.25	229.93	255.73	264.30	273.33	261.02	248.06	245.95	249.77	254.03	254.59
1	726.59	619.62	584.93	516.12	561.17	568.51	560.98	556.88	502.78	490.72	482.53
	465.51	487.17	535.95	538.40	521.52	522.92	471.78	521.32	508.33	491.44	525.33
-1	1649.63	1892.22	1763.13	1834.39	1929.64	1834.12	1669.43	1769.70	1743.65	1602.13	1617.10
	1857.11	1821.05	1808.84	1715.83	1767.74	1742.64	1878.55	2038.42	1972.40	1860.20	1836.61
-2	676.37	715.95	657.07	742.62	762.33	770.72	718.17	696.30	648.81	633.80	588.76
	659.39	676.82	654.77	648.22	767.76	662.19	640.00	645.50	695.05	703.23	683.37
totaal	4180.98	4038.59	3639.70	3564.71	3735.75	3664.13	3468.07	3544.99	3353.59	3151.67	3074.53
	3358.57	3370.32	3467.53	3384.59	3543.95	3392.91	3444.79	3654.23	3628.38	3512.43	3501.63

source program:SIRENE  
stuurprogramma:a:\stuur\stuural.stu  
sourcefile:b:\invoer\r3500.dat  
uitvoerfiles:i:\scratch\boschloo\3500ta.uit,i:\scratch\boschloo\3500ta.prn  
i:\scratch\boschloo\tafout.prn  
i:\scratch\boschloo\trend.prn  
i:\scratch\boschloo\amplta.prn

landgrens: -275.00  
zeegrens: 720.00  
ondergrens: -6.00  
bovengrens: 20.00  
laagdikte: 5.00

trend:-8.05  
amplitude:90.68  
fase/jr opgang:vrij

periode: 1	ben(t)= 5334.8	- 8.1	t
periode: 2	ben(t)= 5334.8	- 8.1	t
periode: 3	ben(t)= 5330.7	- 8.1	t +90.7 sin(wt - 0.5)
periode: 4	ben(t)= 5330.9	- 8.1	t +90.7 sin(wt - 0.1)
periode: 5	ben(t)= 5341.1	- 8.1	t +90.7 sin(wt - 0.6)
periode: 6	ben(t)= 5335.3	- 8.1	t +90.7 sin(wt + 0.5)
periode: 7	ben(t)= 5330.8	- 8.1	t +90.7 sin(wt + 0.4)
periode: 8	ben(t)= 5328.6	- 8.1	t +90.7 sin(wt + 0.2)
periode: 9	ben(t)= 5322.9	- 8.1	t +90.7 sin(wt - 0.1)
periode: 10	ben(t)= 5342.2	- 8.1	t +90.7 sin(wt + 1.6)
periode: 11	ben(t)= 5334.8	- 8.1	t +90.7 sin(wt + 0.3)
periode: 12	ben(t)= 5336.9	- 8.1	t +90.7 sin(wt + 1.6)
periode: 13	ben(t)= 5326.9	- 8.1	t +90.7 sin(wt + 1.1)
periode: 14	ben(t)= 5337.4	- 8.1	t +90.7 sin(wt + 1.0)
periode: 15	ben(t)= 5354.1	- 8.1	t +90.7 sin(wt + 1.6)
periode: 16	ben(t)= 5323.9	- 8.1	t +90.7 sin(wt + 1.6)
periode: 17	ben(t)= 5321.6	- 8.1	t +90.7 sin(wt + 1.6)
periode: 18	ben(t)= 5344.6	- 8.1	t +90.7 sin(wt + 1.6)
periode: 19	ben(t)= 5345.3	- 8.1	t +90.7 sin(wt + 1.6)
periode: 20	ben(t)= 5329.9	- 8.1	t +90.7 sin(wt + 1.1)

laag	64	65	66	67	68	69	70	71	72	73	74	75
4	175.88	174.40	185.86	192.62	185.92	193.39	158.48	120.69	100.43	105.35	99.73	73.79
3	551.05	549.37	548.61	550.27	545.69	545.30	484.44	447.20	447.31	428.90	425.20	377.20
2	701.60	698.00	699.71	701.45	705.05	706.98	649.83	607.75	606.25	610.40	577.15	526.90
1	956.54	949.30	948.77	962.29	989.09	954.24	867.77	825.61	826.60	792.43	734.17	686.70
-1	2130.17	2051.75	2005.82	2109.92	1962.83	1999.13	2033.89	1918.00	1976.44	1832.98	1863.68	1910.35
-2	720.67	725.75	682.82	732.00	758.92	789.80	817.66	776.50	761.34	715.03	676.79	689.11
totaal	5235.90	5148.58	5071.59	5248.55	5147.50	5188.83	5012.08	4695.74	4718.36	4485.10	4376.72	4264.06
	4264.06	4201.53	4764.53	4708.70	4768.21	4833.49	4412.97	4593.17	4594.30	4319.29	4378.92	



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3525.dat  
 uitvoerfiles:i:\scratch\boschloo\3525ta.uit,i:\scratch\boschloo\3525ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -232.00  
 zeegrens: 720.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-7.73  
 amplitude:91.13  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4076.0 - 7.7 t  
 periode: 2 ben(t)= 4076.0 - 7.7 t  
 periode: 3 ben(t)= 4071.9 - 7.7 t +91.1 sin(wt - 0.4)  
 periode: 4 ben(t)= 4070.2 - 7.7 t +91.1 sin(wt + 0.6)  
 periode: 5 ben(t)= 4075.8 - 7.7 t +91.1 sin(wt + 0.7)  
 periode: 6 ben(t)= 4069.8 - 7.7 t +91.1 sin(wt + 1.6)  
 periode: 7 ben(t)= 4074.9 - 7.7 t +91.1 sin(wt - 0.6)  
 periode: 8 ben(t)= 4069.2 - 7.7 t +91.1 sin(wt + 0.1)  
 periode: 9 ben(t)= 4067.5 - 7.7 t +91.1 sin(wt - 1.0)  
 periode: 10 ben(t)= 4083.5 - 7.7 t +91.1 sin(wt + 1.6)  
 periode: 11 ben(t)= 4076.0 - 7.7 t +91.1 sin(wt + 1.6)  
 periode: 12 ben(t)= 4078.1 - 7.7 t +91.1 sin(wt + 1.6)  
 periode: 13 ben(t)= 4074.3 - 7.7 t +91.1 sin(wt + 1.6)  
 periode: 14 ben(t)= 4093.8 - 7.7 t +91.1 sin(wt - 0.2)  
 periode: 15 ben(t)= 4095.4 - 7.7 t +91.1 sin(wt + 1.6)  
 periode: 16 ben(t)= 4065.1 - 7.7 t +91.1 sin(wt + 1.6)  
 periode: 17 ben(t)= 4062.7 - 7.7 t +91.1 sin(wt + 1.6)  
 periode: 18 ben(t)= 4085.9 - 7.7 t +91.1 sin(wt + 1.6)  
 periode: 19 ben(t)= 4086.5 - 7.7 t +91.1 sin(wt + 1.6)  
 periode: 20 ben(t)= 4074.7 - 7.7 t +91.1 sin(wt + 1.6)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	109.39	100.79	137.78	133.70	28.68	27.00	26.02	27.51	52.96	52.02	49.63
	47.67	51.46	50.14	68.03	50.20	47.00	71.98	48.95	57.71	111.88	116.77
3	292.09	292.45	301.13	305.78	130.49	120.81	120.63	123.51	150.58	151.21	154.89
	151.39	143.77	139.76	164.61	143.44	146.44	166.16	142.57	141.03	221.29	228.89
2	406.59	406.87	415.25	419.46	254.08	249.67	260.26	263.52	293.64	297.42	255.51
	251.23	235.79	237.52	271.02	246.26	254.57	281.71	253.08	236.38	312.17	331.38
1	598.67	608.47	613.92	683.43	508.82	483.96	434.85	489.56	465.54	456.03	339.68
	392.88	388.16	409.73	398.86	453.75	482.23	444.38	346.91	371.20	424.50	450.13
-1	1935.00	1952.97	1897.92	2004.57	1915.05	1908.13	1798.64	1792.89	1767.17	1733.49	1773.36
	1720.78	1937.68	1778.95	1840.91	1867.50	1888.31	1731.97	1745.83	1713.57	1609.43	1824.78
-2	666.75	676.17	634.12	664.77	686.38	714.75	742.62	694.36	673.50	678.05	634.87
	610.14	655.46	679.15	635.33	707.00	704.19	631.51	639.33	677.92	668.47	706.31
totaal	4008.49	4037.72	4000.12	4211.70	3523.50	3504.31	3383.03	3391.35	3403.40	3368.21	3207.93
	3174.09	3412.32	3295.25	3378.76	3468.15	3522.74	3327.71	3176.68	3197.81	3347.73	3658.25

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3550.dat
uitvoerfiles:i:\scratch\boschloo\3550ta.uit,i:\scratch\boschloo\3550ta.prn
            i:\scratch\boschloo\tafout.prn
            i:\scratch\boschloo\trend.prn
            i:\scratch\boschloo\amplta.prn

```

```

landgrens: -205.00
zeegrens:  800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte:  5.00

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```

trend:-7.41
amplitude:91.57
fase/jr opgang:vrij

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periode: 1  ben(t)= 4386.6 - 7.4 t
periode: 2  ben(t)= 4386.6 - 7.4 t
periode: 3  ben(t)= 4382.8 - 7.4 t +91.6 sin(wt - 0.1)
periode: 4  ben(t)= 4381.7 - 7.4 t +91.6 sin(wt + 0.2)
periode: 5  ben(t)= 4387.3 - 7.4 t +91.6 sin(wt + 0.5)
periode: 6  ben(t)= 4392.0 - 7.4 t +91.6 sin(wt - 0.3)
periode: 7  ben(t)= 4382.6 - 7.4 t +91.6 sin(wt + 0.9)
periode: 8  ben(t)= 4379.2 - 7.4 t +91.6 sin(wt - 0.1)
periode: 9  ben(t)= 4375.0 - 7.4 t +91.6 sin(wt + 0.1)
periode: 10 ben(t)= 4389.8 - 7.4 t +91.6 sin(wt + 0.7)
periode: 11 ben(t)= 4386.6 - 7.4 t +91.6 sin(wt - 1.4)
periode: 12 ben(t)= 4390.0 - 7.4 t +91.6 sin(wt + 1.4)
periode: 13 ben(t)= 4384.9 - 7.4 t +91.6 sin(wt + 1.6)
periode: 14 ben(t)= 4378.7 - 7.4 t +91.6 sin(wt + 1.6)
periode: 15 ben(t)= 4372.9 - 7.4 t +91.6 sin(wt - 0.6)
periode: 16 ben(t)= 4390.4 - 7.4 t +91.6 sin(wt - 1.2)
periode: 17 ben(t)= 4373.3 - 7.4 t +91.6 sin(wt + 1.6)
periode: 18 ben(t)= 4399.7 - 7.4 t +91.6 sin(wt + 1.3)
periode: 19 ben(t)= 4374.6 - 7.4 t +91.6 sin(wt - 1.1)
periode: 20 ben(t)= 4385.3 - 7.4 t +91.6 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	21.90	29.22	33.20	38.20	40.46	44.24	52.47	63.07	63.30	58.91	61.11
	58.16	60.08	61.69	64.94	67.36	66.15	69.57	61.91	60.15	50.76	55.85
3	283.28	282.15	282.78	287.11	284.96	291.91	289.00	291.36	293.05	287.28	260.86
	262.48	250.92	248.02	247.79	250.18	244.72	247.33	252.16	242.79	250.88	252.77
2	503.56	499.76	494.61	497.40	499.57	504.61	504.68	508.22	511.46	508.53	467.34
	462.95	444.09	446.49	441.55	445.60	445.33	448.66	452.03	433.04	440.77	439.63
1	701.57	676.52	687.48	687.72	715.44	725.01	702.60	710.91	674.78	644.63	575.45
	618.95	619.50	616.45	615.47	646.04	609.21	634.64	577.43	596.61	637.71	646.27
-1	1816.65	1802.83	1668.76	1719.47	1775.30	1895.20	1844.01	1766.23	1677.73	1597.83	1714.42
	1767.62	1734.58	1637.20	1698.60	1779.31	1690.57	1782.08	1657.51	1761.47	1649.63	1783.51
-2	605.61	653.67	599.69	643.68	669.27	672.33	711.15	719.73	671.71	736.75	647.87
	619.83	644.97	662.25	570.80	646.62	590.09	593.08	626.19	682.08	684.13	698.67
totaal	3932.56	3944.15	3766.52	3873.58	3985.00	4133.31	4103.91	4059.52	3892.04	3833.93	3727.05
	3790.00	3754.14	3672.10	3639.15	3835.12	3646.07	3775.37	3627.23	3776.13	3713.88	3876.70

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3575.dat  
 uitvoerfiles:i:\scratch\boschloo\3575ta.uit,i:\scratch\boschloo\3575ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -190.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-7.09  
 amplitude:92.01  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4241.9 - 7.1 t  
 periode: 2 ben(t)= 4241.9 - 7.1 t  
 periode: 3 ben(t)= 4238.3 - 7.1 t +92.0 sin(wt + 0.0)  
 periode: 4 ben(t)= 4238.4 - 7.1 t +92.0 sin(wt - 0.2)  
 periode: 5 ben(t)= 4237.2 - 7.1 t +92.0 sin(wt + 1.4)  
 periode: 6 ben(t)= 4242.7 - 7.1 t +92.0 sin(wt + 0.4)  
 periode: 7 ben(t)= 4237.8 - 7.1 t +92.0 sin(wt + 0.9)  
 periode: 8 ben(t)= 4234.7 - 7.1 t +92.0 sin(wt - 0.0)  
 periode: 9 ben(t)= 4230.5 - 7.1 t +92.0 sin(wt + 0.2)  
 periode: 10 ben(t)= 4236.2 - 7.1 t +92.0 sin(wt - 0.5)  
 periode: 11 ben(t)= 4241.9 - 7.1 t +92.0 sin(wt - 0.9)  
 periode: 12 ben(t)= 4244.0 - 7.1 t +92.0 sin(wt + 1.6)  
 periode: 13 ben(t)= 4240.1 - 7.1 t +92.0 sin(wt + 1.6)  
 periode: 14 ben(t)= 4243.9 - 7.1 t +92.0 sin(wt + 1.0)  
 periode: 15 ben(t)= 4230.9 - 7.1 t +92.0 sin(wt - 0.4)  
 periode: 16 ben(t)= 4236.1 - 7.1 t +92.0 sin(wt - 0.7)  
 periode: 17 ben(t)= 4228.5 - 7.1 t +92.0 sin(wt + 1.6)  
 periode: 18 ben(t)= 4257.1 - 7.1 t +92.0 sin(wt + 0.5)  
 periode: 19 ben(t)= 4252.5 - 7.1 t +92.0 sin(wt + 1.6)  
 periode: 20 ben(t)= 4240.6 - 7.1 t +92.0 sin(wt + 1.6)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	66.49	65.97	65.43	63.11	66.37	64.17	66.99	63.58	67.06	65.74	66.39
	62.20	57.71	60.24	98.13	67.16	99.79	63.97	65.50	60.57	77.89	74.17
3	267.60	275.05	272.46	275.92	275.76	276.15	278.55	280.99	282.05	285.09	250.55
	248.53	237.22	236.42	267.21	235.75	268.74	232.42	232.32	230.04	244.55	243.69
2	451.70	451.82	441.45	445.50	442.00	428.79	434.12	440.70	428.85	429.98	385.80
	388.86	371.64	374.74	410.15	390.97	409.34	371.60	367.10	366.24	381.18	388.79
1	700.40	660.79	639.65	650.31	618.08	625.73	671.95	659.60	634.09	594.45	586.26
	572.92	581.68	594.53	610.68	582.63	613.78	566.23	540.85	596.75	643.95	625.73
-1	1739.53	1771.31	1722.04	1614.70	1509.47	1692.14	1871.04	1695.51	1617.35	1600.80	1811.97
	1820.49	1626.40	1792.18	1569.44	1575.26	1645.03	1743.31	1707.12	1804.57	1891.92	1822.05
-2	628.93	643.81	645.53	629.08	641.03	628.67	677.44	697.55	667.17	685.20	665.93
	625.10	601.60	664.13	575.12	640.72	626.67	629.54	635.77	672.76	709.68	684.45
totaal	3854.65	3868.75	3786.56	3678.62	3552.71	3715.65	4000.09	3837.92	3696.58	3661.26	3766.90
	3718.10	3476.26	3722.24	3530.74	3492.48	3663.35	3607.07	3548.66	3730.93	3949.17	3838.87

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3600.dat
uitvoerfiles:i:\scratch\boschloo\3600ta.uit,i:\scratch\boschloo\3600ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -175.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-6.77
amplitude:92.45
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4236.3 - 6.8 t
periode: 2  ben(t)= 4236.3 - 6.8 t
periode: 3  ben(t)= 4232.3 - 6.8 t +92.4 sin(wt - 0.2)
periode: 4  ben(t)= 4231.1 - 6.8 t +92.4 sin(wt + 0.3)
periode: 5  ben(t)= 4237.7 - 6.8 t +92.4 sin(wt + 0.4)
periode: 6  ben(t)= 4236.6 - 6.8 t +92.4 sin(wt + 0.5)
periode: 7  ben(t)= 4232.2 - 6.8 t +92.4 sin(wt + 0.4)
periode: 8  ben(t)= 4228.6 - 6.8 t +92.4 sin(wt - 0.3)
periode: 9  ben(t)= 4224.2 - 6.8 t +92.4 sin(wt - 0.1)
periode: 10 ben(t)= 4231.0 - 6.8 t +92.4 sin(wt - 0.4)
periode: 11 ben(t)= 4236.3 - 6.8 t +92.4 sin(wt - 0.7)
periode: 12 ben(t)= 4242.0 - 6.8 t +92.4 sin(wt + 1.1)
periode: 13 ben(t)= 4231.2 - 6.8 t +92.4 sin(wt - 1.1)
periode: 14 ben(t)= 4231.1 - 6.8 t +92.4 sin(wt + 1.4)
periode: 15 ben(t)= 4219.5 - 6.8 t +92.4 sin(wt - 0.8)
periode: 16 ben(t)= 4227.2 - 6.8 t +92.4 sin(wt - 0.5)
periode: 17 ben(t)= 4222.8 - 6.8 t +92.4 sin(wt + 1.6)
periode: 18 ben(t)= 4251.2 - 6.8 t +92.4 sin(wt + 0.4)
periode: 19 ben(t)= 4247.0 - 6.8 t +92.4 sin(wt + 1.6)
periode: 20 ben(t)= 4235.0 - 6.8 t +92.4 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	58.55	58.14	58.79	61.51	60.09	67.15	62.58	64.36	61.20	61.04	62.02
	61.73	58.54	56.67	58.70	62.39	60.14	63.64	63.02	48.89	64.96	65.67
3	249.04	250.29	253.50	258.46	255.71	266.81	263.13	268.06	270.84	272.76	259.53
	251.52	212.81	210.40	210.18	216.62	215.81	216.66	215.51	202.24	224.98	228.54
2	468.01	470.26	469.71	477.88	482.58	474.60	479.33	487.81	485.69	485.84	441.30
	430.64	394.75	398.10	406.97	417.89	414.07	408.13	392.43	385.29	398.88	407.33
1	682.99	646.47	683.20	690.68	642.52	624.23	693.41	654.57	644.10	618.41	596.23
	588.42	577.11	617.94	614.55	593.96	606.28	555.34	554.79	578.40	614.47	609.18
-1	1821.17	1807.46	1849.17	1730.23	1679.38	1666.41	1791.43	1707.29	1624.02	1599.84	1648.81
	1670.37	1802.56	1764.43	1553.94	1602.32	1708.28	1649.63	1785.51	1773.26	1840.32	1804.67
-2	629.67	619.43	646.97	672.44	670.70	642.03	638.07	679.65	685.75	714.90	621.94
	649.59	613.47	621.46	559.66	666.90	619.30	644.34	632.67	650.15	698.64	663.57
totaal	3909.43	3852.06	3961.34	3891.20	3790.99	3741.22	3927.95	3861.74	3771.61	3752.80	3629.83
	3652.27	3659.24	3669.00	3404.00	3560.08	3623.88	3537.74	3643.93	3638.23	3842.24	3778.97

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3625.dat  
 uitvoerfiles:i:\scratch\boschloo\3625ta.uit,i:\scratch\boschloo\3625ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amp1ta.prn

landgrens: -188.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-6.45  
 amplitude:92.89  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4691.9 - 6.5 t  
 periode: 2 ben(t)= 4691.9 - 6.5 t  
 periode: 3 ben(t)= 4688.0 - 6.5 t +92.9 sin(wt - 0.1)  
 periode: 4 ben(t)= 4689.2 - 6.5 t +92.9 sin(wt - 0.3)  
 periode: 5 ben(t)= 4697.3 - 6.5 t +92.9 sin(wt - 0.3)  
 periode: 6 ben(t)= 4687.3 - 6.5 t +92.9 sin(wt + 1.2)  
 periode: 7 ben(t)= 4690.5 - 6.5 t +92.9 sin(wt - 0.6)  
 periode: 8 ben(t)= 4687.4 - 6.5 t +92.9 sin(wt + 0.6)  
 periode: 9 ben(t)= 4682.3 - 6.5 t +92.9 sin(wt + 0.5)  
 periode: 10 ben(t)= 4694.6 - 6.5 t +92.9 sin(wt + 0.7)  
 periode: 11 ben(t)= 4691.9 - 6.5 t +92.9 sin(wt - 0.9)  
 periode: 12 ben(t)= 4699.6 - 6.5 t +92.9 sin(wt + 0.6)  
 periode: 13 ben(t)= 4682.6 - 6.5 t +92.9 sin(wt - 0.8)  
 periode: 14 ben(t)= 4685.3 - 6.5 t +92.9 sin(wt + 1.5)  
 periode: 15 ben(t)= 4674.3 - 6.5 t +92.9 sin(wt - 0.8)  
 periode: 16 ben(t)= 4681.1 - 6.5 t +92.9 sin(wt - 0.4)  
 periode: 17 ben(t)= 4684.0 - 6.5 t +92.9 sin(wt + 1.2)  
 periode: 18 ben(t)= 4707.1 - 6.5 t +92.9 sin(wt + 0.5)  
 periode: 19 ben(t)= 4679.8 - 6.5 t +92.9 sin(wt - 0.9)  
 periode: 20 ben(t)= 4690.6 - 6.5 t +92.9 sin(wt + 1.6)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	92.07	93.50	106.99	112.94	121.80	125.15	120.63	119.92	124.30	126.63	110.33
	115.53	120.15	116.09	123.52	131.92	125.34	133.34	138.49	146.20	162.80	151.11
3	335.88	336.08	340.38	345.46	353.47	351.54	351.96	350.86	347.68	357.44	335.54
	357.45	335.95	334.67	326.07	332.83	330.27	332.79	338.60	331.62	332.34	335.73
2	489.76	496.38	506.60	515.16	530.37	533.83	543.32	548.56	565.37	572.86	560.40
	529.59	465.58	465.29	471.36	480.26	482.27	482.60	480.66	458.45	472.44	471.48
1	729.36	792.11	784.16	792.25	771.08	798.67	748.21	785.23	783.12	745.76	728.26
	654.62	654.73	688.68	705.04	731.69	738.26	676.35	617.90	672.33	660.89	704.05
-1	1844.38	1970.33	2114.78	1910.46	1857.08	1872.65	1844.87	1974.56	1863.72	1812.38	1748.61
	1645.15	1818.60	1769.18	1845.54	1872.60	1837.41	1746.54	1859.20	1874.95	1676.76	1798.67
-2	697.66	666.17	703.05	691.05	680.12	646.58	658.34	675.08	723.59	720.19	672.95
	672.24	620.21	644.65	606.25	710.33	657.95	630.63	679.00	691.78	671.94	669.67
totaal	4189.11	4354.57	4555.96	4367.32	4313.92	4328.43	4267.33	4454.20	4407.79	4335.26	4156.09
	3974.59	4015.22	4018.56	4077.78	4259.63	4171.49	4002.24	4113.84	4175.34	3977.16	4130.71

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3650.dat
uitvoerfiles:i:\scratch\boschloo\3650ta.uit,i:\scratch\boschloo\3650ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -145.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-6.13
amplitude:93.33
fase/jr opgang:vrij

```

```

periode: 1 ben(t)= 3914.1 - 6.1 t
periode: 2 ben(t)= 3914.1 - 6.1 t
periode: 3 ben(t)= 3910.2 - 6.1 t +93.3 sin(wt - 0.1)
periode: 4 ben(t)= 3909.7 - 6.1 t +93.3 sin(wt + 0.0)
periode: 5 ben(t)= 3920.3 - 6.1 t +93.3 sin(wt - 0.5)
periode: 6 ben(t)= 3919.2 - 6.1 t +93.3 sin(wt - 0.2)
periode: 7 ben(t)= 3914.2 - 6.1 t +93.3 sin(wt - 0.9)
periode: 8 ben(t)= 3906.8 - 6.1 t +93.3 sin(wt - 0.0)
periode: 9 ben(t)= 3902.8 - 6.1 t +93.3 sin(wt + 0.2)
periode: 10 ben(t)= 3920.1 - 6.1 t +93.3 sin(wt + 1.2)
periode: 11 ben(t)= 3914.1 - 6.1 t +93.3 sin(wt - 1.0)
periode: 12 ben(t)= 3921.6 - 6.1 t +93.3 sin(wt + 0.7)
periode: 13 ben(t)= 3907.2 - 6.1 t +93.3 sin(wt - 1.0)
periode: 14 ben(t)= 3913.7 - 6.1 t +93.3 sin(wt + 1.1)
periode: 15 ben(t)= 3906.6 - 6.1 t +93.3 sin(wt - 0.2)
periode: 16 ben(t)= 3917.5 - 6.1 t +93.3 sin(wt - 1.2)
periode: 17 ben(t)= 3919.3 - 6.1 t +93.3 sin(wt + 0.5)
periode: 18 ben(t)= 3924.2 - 6.1 t +93.3 sin(wt + 1.6)
periode: 19 ben(t)= 3907.0 - 6.1 t +93.3 sin(wt - 0.1)
periode: 20 ben(t)= 3912.8 - 6.1 t +93.3 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	24.78	25.51	24.22	29.20	30.14	31.27	31.31	31.96	30.84	33.40	32.18
	36.84	32.74	31.89	30.18	35.57	34.16	43.70	48.38	45.97	53.02	47.58
3	206.53	206.79	203.27	214.71	218.68	220.27	219.78	222.20	231.60	243.65	241.20
	239.85	213.01	210.95	208.95	217.96	217.90	210.96	222.25	209.89	206.39	194.73
2	361.15	368.19	368.34	377.33	390.59	397.76	409.95	416.81	429.16	431.76	423.80
	411.62	351.99	355.34	347.62	352.03	355.58	359.59	357.33	333.58	328.94	326.33
1	532.14	574.55	561.27	597.02	626.69	625.38	569.06	605.78	617.35	573.09	563.60
	519.52	505.48	513.70	510.99	548.20	540.28	547.29	458.82	497.17	499.42	502.39
-1	1643.63	1605.77	1683.54	1976.09	1763.71	1640.47	1782.43	1649.89	1736.72	1627.06	1660.05
	1505.02	1639.00	1548.14	1635.36	1699.00	1668.84	1581.09	1566.50	1573.04	1500.99	1446.42
-2	677.42	628.17	676.89	692.22	690.00	697.88	668.91	612.36	643.10	664.60	709.49
	680.67	619.13	575.27	535.80	613.50	600.94	593.78	594.08	616.46	634.00	611.83
totaal	3445.66	3408.98	3517.54	3886.57	3719.81	3613.03	3681.45	3539.00	3688.77	3573.56	3630.33
	3393.51	3361.35	3235.28	3268.89	3466.25	3417.71	3336.40	3247.36	3276.10	3222.75	3129.28

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3675.dat
uitvoerfiles:i:\scratch\boschloo\3675ta.uit,i:\scratch\boschloo\3675ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -198.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-5.81
amplitude:93.77
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4835.4 - 5.8 t
periode: 2  ben(t)= 4835.4 - 5.8 t
periode: 3  ben(t)= 4831.1 - 5.8 t +93.8 sin(wt - 0.6)
periode: 4  ben(t)= 4829.4 - 5.8 t +93.8 sin(wt + 0.7)
periode: 5  ben(t)= 4842.3 - 5.8 t +93.8 sin(wt - 0.9)
periode: 6  ben(t)= 4842.1 - 5.8 t +93.8 sin(wt - 0.6)
periode: 7  ben(t)= 4831.2 - 5.8 t +93.8 sin(wt + 0.8)
periode: 8  ben(t)= 4828.1 - 5.8 t +93.8 sin(wt - 0.8)
periode: 9  ben(t)= 4823.3 - 5.8 t +93.8 sin(wt + 0.0)
periode: 10 ben(t)= 4835.7 - 5.8 t +93.8 sin(wt + 0.4)
periode: 11 ben(t)= 4835.4 - 5.8 t +93.8 sin(wt + 1.6)
periode: 12 ben(t)= 4837.5 - 5.8 t +93.8 sin(wt + 1.6)
periode: 13 ben(t)= 4833.6 - 5.8 t +93.8 sin(wt + 1.6)
periode: 14 ben(t)= 4827.3 - 5.8 t +93.8 sin(wt + 1.6)
periode: 15 ben(t)= 4820.5 - 5.8 t +93.8 sin(wt - 0.6)
periode: 16 ben(t)= 4844.4 - 5.8 t +93.8 sin(wt - 1.4)
periode: 17 ben(t)= 4821.7 - 5.8 t +93.8 sin(wt + 1.6)
periode: 18 ben(t)= 4847.5 - 5.8 t +93.8 sin(wt + 1.4)
periode: 19 ben(t)= 4823.2 - 5.8 t +93.8 sin(wt - 1.2)
periode: 20 ben(t)= 4834.1 - 5.8 t +93.8 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	125.83	128.52	107.38	107.92	109.63	109.98	90.98	120.45	125.30	154.01	76.79
	77.72	105.66	104.62	110.89	71.40	78.55	105.17	114.13	137.43	109.18	109.76
3	337.47	342.96	316.05	321.13	326.28	330.43	307.84	339.82	345.88	370.85	258.52
	275.11	308.26	303.07	310.53	259.78	265.20	302.85	316.71	323.92	290.26	290.77
2	632.51	641.74	602.75	601.97	610.20	613.01	590.83	626.10	626.35	648.36	531.88
	542.47	570.84	568.40	564.95	525.15	529.53	569.42	576.79	574.94	538.23	541.72
1	829.85	810.59	747.52	761.96	833.05	833.42	780.09	850.66	836.49	819.05	679.95
	730.24	777.14	748.06	716.78	684.94	723.76	752.28	716.80	737.83	670.18	733.21
-1	2079.90	1738.31	1902.05	2078.27	2208.25	1886.50	2132.45	2018.13	1878.48	1895.83	1866.43
	2036.96	2041.64	1870.55	1818.40	1816.25	1906.34	2006.94	1925.89	1960.20	1841.85	1883.51
-2	712.52	677.52	722.57	755.27	759.63	747.33	748.80	676.75	647.52	738.00	726.76
	693.00	673.12	705.70	612.56	649.08	601.77	620.47	665.86	697.92	680.00	720.47
totaal	4718.09	4339.64	4398.31	4626.51	4847.04	4520.68	4650.98	4631.91	4460.02	4626.10	4140.33
	4355.50	4476.66	4300.41	4134.11	4006.61	4105.15	4357.14	4316.18	4432.26	4129.70	4279.43

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3700.dat  
 uitvoerfiles:i:\scratch\boschloo\3700ta.uit,i:\scratch\boschloo\3700ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -135.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-5.49  
 amplitude:94.22  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4209.4 - 5.5 t  
 periode: 2 ben(t)= 4209.4 - 5.5 t  
 periode: 3 ben(t)= 4206.4 - 5.5 t +94.2 sin(wt + 0.3)  
 periode: 4 ben(t)= 4203.4 - 5.5 t +94.2 sin(wt + 0.7)  
 periode: 5 ben(t)= 4212.9 - 5.5 t +94.2 sin(wt + 0.1)  
 periode: 6 ben(t)= 4216.4 - 5.5 t +94.2 sin(wt - 1.4)  
 periode: 7 ben(t)= 4206.7 - 5.5 t +94.2 sin(wt + 1.6)  
 periode: 8 ben(t)= 4201.6 - 5.5 t +94.2 sin(wt - 0.6)  
 periode: 9 ben(t)= 4197.7 - 5.5 t +94.2 sin(wt + 0.1)  
 periode: 10 ben(t)= 4205.8 - 5.5 t +94.2 sin(wt - 0.1)  
 periode: 11 ben(t)= 4209.4 - 5.5 t +94.2 sin(wt - 1.4)  
 periode: 12 ben(t)= 4211.6 - 5.5 t +94.2 sin(wt + 1.6)  
 periode: 13 ben(t)= 4207.6 - 5.5 t +94.2 sin(wt + 1.6)  
 periode: 14 ben(t)= 4221.9 - 5.5 t +94.2 sin(wt + 0.4)  
 periode: 15 ben(t)= 4222.1 - 5.5 t +94.2 sin(wt + 0.9)  
 periode: 16 ben(t)= 4198.1 - 5.5 t +94.2 sin(wt + 1.6)  
 periode: 17 ben(t)= 4222.3 - 5.5 t +94.2 sin(wt - 0.0)  
 periode: 18 ben(t)= 4219.6 - 5.5 t +94.2 sin(wt + 1.6)  
 periode: 19 ben(t)= 4205.7 - 5.5 t +94.2 sin(wt + 0.2)  
 periode: 20 ben(t)= 4209.2 - 5.5 t +94.2 sin(wt - 1.4)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	69.96	74.31	73.03	101.30	80.42	79.37	78.21	85.73	90.83	97.92	79.17
	105.34	108.29	108.29	107.65	128.71	127.11	132.43	122.46	118.74	129.96	133.40
3	260.96	265.39	266.08	279.42	271.78	266.50	266.59	271.33	272.87	271.31	257.37
	272.05	277.03	277.03	274.88	287.54	284.99	289.47	286.99	282.34	290.04	294.66
2	447.97	447.91	415.90	413.51	415.48	411.80	413.53	417.33	416.46	421.25	404.38
	417.11	415.87	415.87	425.82	440.29	435.07	434.96	444.80	433.05	437.98	449.47
1	682.29	632.25	563.94	572.98	612.64	665.74	645.29	694.86	665.94	629.86	536.30
	669.95	702.00	651.16	627.72	627.40	606.23	627.15	595.76	621.89	675.63	646.30
-1	1885.75	1447.53	1614.68	1520.34	1683.79	1835.43	1751.43	1834.23	1767.41	1743.37	1777.44
	1842.63	1889.64	1817.61	1649.90	1620.50	1599.37	1779.96	1811.35	1790.86	1693.53	1614.15
-2	671.04	583.84	656.99	579.35	695.54	735.67	686.08	651.17	621.43	672.97	694.08
	711.75	643.47	581.67	542.00	537.00	551.08	525.30	610.97	662.04	697.14	695.80
totaal	4017.98	3451.23	3590.62	3466.90	3759.65	3994.50	3841.13	3954.65	3834.93	3836.68	3748.74
	4018.83	4036.31	3851.63	3627.98	3641.45	3603.85	3789.27	3872.32	3908.93	3924.28	3833.78





source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3750.dat  
 uitvoerfiles:i:\scratch\boschloo\3750ta.uit,i:\scratch\boschloo\3750ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -75.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-4.85  
 amplitude:95.10  
 fase/jr opgang:vrij

periode: 1 ben(t)= 2899.2 - 4.9 t  
 periode: 2 ben(t)= 2899.2 - 4.9 t  
 periode: 3 ben(t)= 2895.3 - 4.9 t +95.1 sin(wt - 0.1)  
 periode: 4 ben(t)= 2895.7 - 4.9 t +95.1 sin(wt - 0.2)  
 periode: 5 ben(t)= 2905.1 - 4.9 t +95.1 sin(wt - 0.4)  
 periode: 6 ben(t)= 2892.7 - 4.9 t +95.1 sin(wt + 1.6)  
 periode: 7 ben(t)= 2895.9 - 4.9 t +95.1 sin(wt - 0.0)  
 periode: 8 ben(t)= 2893.8 - 4.9 t +95.1 sin(wt + 0.4)  
 periode: 9 ben(t)= 2887.9 - 4.9 t +95.1 sin(wt + 0.3)  
 periode: 10 ben(t)= 2892.3 - 4.9 t +95.1 sin(wt - 0.7)  
 periode: 11 ben(t)= 2899.2 - 4.9 t +95.1 sin(wt - 0.0)  
 periode: 12 ben(t)= 2907.5 - 4.9 t +95.1 sin(wt + 0.2)  
 periode: 13 ben(t)= 2884.5 - 4.9 t +95.1 sin(wt - 0.0)  
 periode: 14 ben(t)= 2917.3 - 4.9 t +95.1 sin(wt - 0.2)  
 periode: 15 ben(t)= 2896.5 - 4.9 t +95.1 sin(wt + 0.1)  
 periode: 16 ben(t)= 2881.0 - 4.9 t +95.1 sin(wt + 0.1)  
 periode: 17 ben(t)= 2911.4 - 4.9 t +95.1 sin(wt + 0.0)  
 periode: 18 ben(t)= 2908.7 - 4.9 t +95.1 sin(wt - 0.2)  
 periode: 19 ben(t)= 2891.6 - 4.9 t +95.1 sin(wt - 0.2)  
 periode: 20 ben(t)= 2890.7 - 4.9 t +95.1 sin(wt + 0.2)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
3	79.69	82.27	84.43	83.11	79.08	73.07	70.25	71.15	71.07	70.55	70.55
	79.63	62.81	71.08	75.82	72.74	71.88	79.29	82.38	69.40	75.38	74.77
2	182.74	187.54	188.10	197.62	168.24	152.08	148.06	150.15	149.25	156.31	156.31
	160.26	144.20	145.34	151.96	160.99	167.93	155.31	146.34	134.11	137.01	138.11
1	345.03	372.94	350.36	345.68	302.81	265.38	267.35	285.57	319.62	324.67	324.67
	284.42	291.19	368.28	352.12	367.29	359.77	241.68	288.48	251.19	260.98	306.37
-1	1341.67	1399.32	1470.09	1298.47	1146.98	1250.63	1187.13	1522.97	1525.75	1372.55	1413.09
	1318.93	1459.16	1506.70	1520.79	1513.95	1391.89	1307.90	1655.27	1613.78	1651.70	1499.65
-2	549.58	563.68	574.07	533.22	611.35	609.38	634.71	590.53	616.02	607.24	616.70
	557.83	506.15	506.50	489.99	517.80	513.86	536.64	531.17	577.27	611.45	602.15
totaal	2498.71	2605.75	2667.05	2458.10	2308.46	2350.53	2307.50	2620.38	2681.71	2531.32	2581.33
	2401.08	2463.53	2597.90	2590.68	2632.78	2505.32	2320.82	2703.63	2645.75	2736.53	2621.05

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3775.dat
uitvoerfiles:i:\scratch\boschloo\3775ta.uit,i:\scratch\boschloo\3775ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -85.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

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```

trend:-4.53
amplitude:95.54
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3085.5 - 4.5 t
periode: 2  ben(t)= 3085.5 - 4.5 t
periode: 3  ben(t)= 3081.1 - 4.5 t +95.5 sin(wt - 0.5)
periode: 4  ben(t)= 3081.0 - 4.5 t +95.5 sin(wt + 0.0)
periode: 5  ben(t)= 3088.6 - 4.5 t +95.5 sin(wt + 0.2)
periode: 6  ben(t)= 3086.7 - 4.5 t +95.5 sin(wt + 0.4)
periode: 7  ben(t)= 3083.9 - 4.5 t +95.5 sin(wt - 0.5)
periode: 8  ben(t)= 3088.5 - 4.5 t +95.5 sin(wt + 1.6)
periode: 9  ben(t)= 3079.3 - 4.5 t +95.5 sin(wt + 0.9)
periode: 10 ben(t)= 3080.8 - 4.5 t +95.5 sin(wt - 0.3)
periode: 11 ben(t)= 3085.5 - 4.5 t +95.5 sin(wt + 0.1)
periode: 12 ben(t)= 3093.2 - 4.5 t +95.5 sin(wt - 0.1)
periode: 13 ben(t)= 3071.2 - 4.5 t +95.5 sin(wt + 0.4)
periode: 14 ben(t)= 3099.0 - 4.5 t +95.5 sin(wt - 1.2)
periode: 15 ben(t)= 3102.0 - 4.5 t +95.5 sin(wt + 1.1)
periode: 16 ben(t)= 3066.0 - 4.5 t +95.5 sin(wt + 0.3)
periode: 17 ben(t)= 3101.4 - 4.5 t +95.5 sin(wt - 1.4)
periode: 18 ben(t)= 3093.1 - 4.5 t +95.5 sin(wt - 0.4)
periode: 19 ben(t)= 3092.1 - 4.5 t +95.5 sin(wt + 1.0)
periode: 20 ben(t)= 3083.7 - 4.5 t +95.5 sin(wt + 1.5)

```

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85											
4	0.14	0.19	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
3	157.33	160.64	163.36	156.05	158.45	152.69	154.70	148.98	145.92	148.66	143.67	147.31	129.88	127.43	124.76	130.20	124.93	127.48	124.98	125.67	121.38	129.93	224.31	229.12	229.29	229.76	230.31	219.52	220.97	208.10	203.84	205.65	203.12
2	206.92	192.15	193.21	191.29	195.86	194.15	199.88	203.94	197.94	183.71	185.69	422.92	399.13	371.32	374.36	348.11	342.95	362.85	297.59	339.43	362.94	357.36	375.24	333.67	323.81	359.42	413.22	428.86	328.06	320.71	335.34	305.56	346.56
-1	1589.47	1498.33	1352.53	1380.94	1300.28	1249.42	1349.07	1356.76	1556.14	1472.13	1640.50	1407.46	1467.52	1534.90	1653.07	1567.25	1616.13	1392.46	1401.90	1457.79	1349.62	1457.38	622.13	607.92	600.10	553.61	610.47	536.92	682.33	623.27	685.80	644.37	615.00
-2	612.11	528.06	526.23	521.33	525.17	530.73	545.02	547.75	595.11	590.66	592.37	3016.30	2895.33	2718.68	2694.72	2647.63	2501.50	2769.93	2634.71	2931.13	2833.75	2959.65	2749.04	2651.28	2705.57	2849.88	2831.70	2894.80	2592.89	2599.27	2711.84	2550.93	2711.92
totaal	3016.30	2895.33	2718.68	2694.72	2647.63	2501.50	2769.93	2634.71	2931.13	2833.75	2959.65	2749.04	2651.28	2705.57	2849.88	2831.70	2894.80	2592.89	2599.27	2711.84	2550.93	2711.92											

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3800.dat
uitvoerfiles:i:\scratch\boschloo\3800ta.uit,i:\scratch\boschloo\3800ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -78.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-4.21
amplitude:95.98
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 2620.2 - 4.2 t
periode: 2  ben(t)= 2620.2 - 4.2 t
periode: 3  ben(t)= 2616.6 - 4.2 t +96.0 sin(wt + 0.1)
periode: 4  ben(t)= 2616.7 - 4.2 t +96.0 sin(wt - 0.2)
periode: 5  ben(t)= 2621.0 - 4.2 t +96.0 sin(wt + 0.5)
periode: 6  ben(t)= 2624.6 - 4.2 t +96.0 sin(wt - 0.1)
periode: 7  ben(t)= 2617.5 - 4.2 t +96.0 sin(wt + 1.6)
periode: 8  ben(t)= 2621.3 - 4.2 t +96.0 sin(wt + 1.3)
periode: 9  ben(t)= 2610.8 - 4.2 t +96.0 sin(wt + 0.6)
periode: 10 ben(t)= 2617.5 - 4.2 t +96.0 sin(wt - 0.0)
periode: 11 ben(t)= 2620.2 - 4.2 t +96.0 sin(wt + 0.8)
periode: 12 ben(t)= 2622.4 - 4.2 t +96.0 sin(wt + 1.6)
periode: 13 ben(t)= 2618.4 - 4.2 t +96.0 sin(wt + 1.6)
periode: 14 ben(t)= 2634.7 - 4.2 t +96.0 sin(wt - 1.2)
periode: 15 ben(t)= 2615.0 - 4.2 t +96.0 sin(wt - 0.0)
periode: 16 ben(t)= 2608.7 - 4.2 t +96.0 sin(wt + 1.6)
periode: 17 ben(t)= 2639.1 - 4.2 t +96.0 sin(wt - 0.8)
periode: 18 ben(t)= 2630.6 - 4.2 t +96.0 sin(wt + 1.6)
periode: 19 ben(t)= 2620.6 - 4.2 t +96.0 sin(wt + 0.5)
periode: 20 ben(t)= 2618.9 - 4.2 t +96.0 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
2	80.52	91.78	90.30	88.58	87.90	86.71	85.56	73.77	69.00	66.44	71.25
	74.59	54.89	61.15	58.92	60.38	60.28	71.07	75.04	55.29	58.12	67.75
1	334.03	341.69	377.81	364.69	343.17	299.89	310.46	269.37	236.83	234.34	277.77
	318.37	241.07	249.81	243.96	312.87	309.31	298.39	281.51	237.09	257.58	295.37
-1	1430.33	1452.63	1510.35	1323.37	1324.70	1239.58	1110.20	1301.08	1349.86	1301.43	1472.89
	1392.70	1351.13	1341.72	1455.27	1585.07	1636.91	1401.46	1421.46	1224.85	1223.78	1266.28
-2	574.00	569.58	609.54	553.76	553.63	553.86	580.59	608.08	621.40	623.84	602.89
	586.80	526.91	524.89	543.90	539.33	566.50	566.88	564.59	580.51	582.05	566.16
totaal	2418.88	2455.68	2588.00	2330.41	2309.39	2180.05	2086.81	2252.30	2277.10	2226.05	2424.79
	2372.46	2174.00	2177.57	2302.06	2497.65	2572.99	2337.81	2342.61	2097.74	2121.54	2195.55

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3825.dat
uitvoerfiles:i:\scratch\boschloo\3825ta.uit,i:\scratch\boschloo\3825ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -110.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-3.89
amplitude:96.42
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3564.8 - 3.9 t
periode: 2  ben(t)= 3564.8 - 3.9 t
periode: 3  ben(t)= 3561.1 - 3.9 t +96.4 sin(wt + 0.1)
periode: 4  ben(t)= 3560.6 - 3.9 t +96.4 sin(wt - 0.0)
periode: 5  ben(t)= 3561.6 - 3.9 t +96.4 sin(wt + 1.1)
periode: 6  ben(t)= 3572.3 - 3.9 t +96.4 sin(wt - 0.9)
periode: 7  ben(t)= 3564.5 - 3.9 t +96.4 sin(wt - 0.8)
periode: 8  ben(t)= 3556.9 - 3.9 t +96.4 sin(wt - 0.1)
periode: 9  ben(t)= 3552.2 - 3.9 t +96.4 sin(wt - 0.1)
periode: 10 ben(t)= 3558.3 - 3.9 t +96.4 sin(wt - 0.6)
periode: 11 ben(t)= 3564.8 - 3.9 t +96.4 sin(wt + 0.3)
periode: 12 ben(t)= 3572.0 - 3.9 t +96.4 sin(wt - 0.3)
periode: 13 ben(t)= 3550.1 - 3.9 t +96.4 sin(wt + 0.3)
periode: 14 ben(t)= 3582.4 - 3.9 t +96.4 sin(wt - 0.0)
periode: 15 ben(t)= 3549.0 - 3.9 t +96.4 sin(wt - 0.6)
periode: 16 ben(t)= 3544.3 - 3.9 t +96.4 sin(wt + 0.8)
periode: 17 ben(t)= 3571.8 - 3.9 t +96.4 sin(wt + 0.4)
periode: 18 ben(t)= 3564.1 - 3.9 t +96.4 sin(wt - 0.9)
periode: 19 ben(t)= 3553.6 - 3.9 t +96.4 sin(wt - 0.6)
periode: 20 ben(t)= 3556.8 - 3.9 t +96.4 sin(wt + 0.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	64.12	66.50	54.61	73.95	77.74	79.08	54.69	55.31	57.87	53.83	49.93
	62.37	56.53	56.28	53.76	61.51	56.53	60.85	60.71	58.88	58.38	71.34
3	231.13	234.22	225.13	237.87	240.07	245.46	253.12	255.77	257.16	258.31	254.46
	262.92	248.17	244.62	241.76	242.75	241.72	237.17	240.53	235.10	237.35	239.00
2	300.82	308.91	309.02	314.08	318.16	326.65	326.72	328.50	327.06	328.57	308.01
	320.01	282.65	280.68	282.70	285.16	286.62	290.74	296.66	295.50	300.75	304.41
1	531.39	532.18	532.88	538.50	518.93	497.68	463.79	496.55	431.24	415.19	438.19
	508.60	420.67	435.60	435.46	432.17	471.99	485.93	460.57	466.51	466.01	497.92
-1	1760.42	1721.65	1720.49	1598.54	1566.92	1551.10	1474.08	1353.75	1401.40	1363.50	1729.67
	1648.30	1501.94	1535.83	1401.46	1686.91	1659.96	1645.00	1541.15	1559.30	1562.73	1563.08
-2	599.25	597.52	614.97	630.21	631.58	701.80	616.17	628.63	637.10	686.83	696.17
	648.30	563.45	557.27	578.90	612.03	598.87	588.83	605.75	618.87	594.01	583.17
totaal	3487.13	3460.98	3457.10	3393.15	3353.40	3401.78	3188.58	3118.50	3111.83	3106.23	3476.43
	3450.50	3073.40	3110.27	2994.03	3320.52	3315.68	3308.53	3205.38	3234.15	3219.23	3258.93

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3850.dat
uitvoerfiles:i:\scratch\boschloo\3850ta.uit,i:\scratch\boschloo\3850ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -105.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-3.57
amplitude:96.86
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3419.1 - 3.6 t
periode: 2  ben(t)= 3419.1 - 3.6 t
periode: 3  ben(t)= 3415.5 - 3.6 t +96.9 sin(wt + 0.1)
periode: 4  ben(t)= 3413.6 - 3.6 t +96.9 sin(wt + 0.3)
periode: 5  ben(t)= 3422.4 - 3.6 t +96.9 sin(wt + 0.1)
periode: 6  ben(t)= 3425.1 - 3.6 t +96.9 sin(wt - 0.4)
periode: 7  ben(t)= 3416.3 - 3.6 t +96.9 sin(wt - 0.2)
periode: 8  ben(t)= 3411.6 - 3.6 t +96.9 sin(wt - 0.8)
periode: 9  ben(t)= 3406.4 - 3.6 t +96.9 sin(wt - 0.2)
periode: 10 ben(t)= 3411.1 - 3.6 t +96.9 sin(wt - 1.0)
periode: 11 ben(t)= 3419.1 - 3.6 t +96.9 sin(wt - 0.8)
periode: 12 ben(t)= 3423.2 - 3.6 t +96.9 sin(wt + 1.3)
periode: 13 ben(t)= 3415.4 - 3.6 t +96.9 sin(wt - 1.2)
periode: 14 ben(t)= 3410.7 - 3.6 t +96.9 sin(wt + 1.6)
periode: 15 ben(t)= 3439.7 - 3.6 t +96.9 sin(wt + 1.6)
periode: 16 ben(t)= 3404.7 - 3.6 t +96.9 sin(wt - 0.2)
periode: 17 ben(t)= 3405.0 - 3.6 t +96.9 sin(wt + 1.6)
periode: 18 ben(t)= 3432.0 - 3.6 t +96.9 sin(wt + 0.0)
periode: 19 ben(t)= 3430.3 - 3.6 t +96.9 sin(wt + 1.6)
periode: 20 ben(t)= 3417.7 - 3.6 t +96.9 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	42.49	32.43	28.19	33.32	37.05	39.15	36.82	36.30	38.01	32.64	37.75
	38.36	33.31	34.32	28.23	32.49	33.58	31.46	25.70	29.23	29.78	33.87
3	206.31	208.10	209.16	209.70	213.11	216.48	225.62	225.70	226.64	229.38	230.20
	233.36	206.93	201.25	197.03	195.62	195.71	192.22	190.37	188.31	188.00	190.85
2	264.39	269.93	271.73	274.13	279.44	288.02	289.85	291.03	291.77	296.92	270.45
	274.28	235.62	237.29	229.42	231.13	229.46	227.53	225.11	227.27	236.64	243.41
1	510.99	492.63	480.66	525.58	515.98	484.89	419.49	478.73	459.53	428.36	399.98
	426.96	376.28	383.71	379.01	346.46	345.51	392.00	411.99	447.88	452.29	475.90
-1	1835.84	1597.10	1785.26	1816.50	1599.17	1502.42	1448.87	1553.00	1513.67	1459.20	1619.64
	1526.63	1602.42	1531.93	1362.73	1385.37	1463.70	1780.75	1682.94	1565.78	1640.24	1696.83
-2	628.91	593.75	611.59	660.85	655.83	713.17	671.55	651.00	616.33	600.20	653.31
	643.98	571.58	582.62	512.81	596.75	618.39	631.00	634.45	624.13	651.38	627.67
totaal	3488.93	3193.95	3386.59	3520.08	3300.58	3244.13	3092.19	3235.78	3145.95	3046.70	3211.33
	3143.57	3026.15	2971.11	2709.23	2787.83	2886.34	3254.95	3170.56	3082.60	3198.33	3268.53

source program:SIRENE

stuurprogramma:a:\stuur\stuural.stu

sourcefile:b:\invoer\r3875.dat

uitvoerfiles:i:\scratch\boschloo\3875ta.uit,i:\scratch\boschloo\3875ta.prn

i:\scratch\boschloo\tafout.prn

i:\scratch\boschloo\trend.prn

i:\scratch\boschloo\amplta.prn

landgrens: -155.00  
zeegrens: 800.00  
ondergrens: -6.00  
bovengrens: 20.00  
laagdikte: 5.00

trend:-3.25

amplitude:97.30

fase/jr opgang:vrij

periode: 1 ben(t)= 4128.1 - 3.3 t  
periode: 2 ben(t)= 4128.1 - 3.3 t  
periode: 3 ben(t)= 4125.4 - 3.3 t +97.3 sin(wt + 0.4)  
periode: 4 ben(t)= 4123.6 - 3.3 t +97.3 sin(wt + 0.0)  
periode: 5 ben(t)= 4135.3 - 3.3 t +97.3 sin(wt - 0.9)  
periode: 6 ben(t)= 4130.0 - 3.3 t +97.3 sin(wt + 0.3)  
periode: 7 ben(t)= 4123.7 - 3.3 t +97.3 sin(wt + 0.6)  
periode: 8 ben(t)= 4131.3 - 3.3 t +97.3 sin(wt + 1.6)  
periode: 9 ben(t)= 4115.6 - 3.3 t +97.3 sin(wt - 0.4)  
periode: 10 ben(t)= 4122.9 - 3.3 t +97.3 sin(wt - 0.4)  
periode: 11 ben(t)= 4128.1 - 3.3 t +97.3 sin(wt + 1.6)  
periode: 12 ben(t)= 4130.3 - 3.3 t +97.3 sin(wt + 1.6)  
periode: 13 ben(t)= 4126.3 - 3.3 t +97.3 sin(wt + 1.6)  
periode: 14 ben(t)= 4119.7 - 3.3 t +97.3 sin(wt + 1.6)  
periode: 15 ben(t)= 4148.8 - 3.3 t +97.3 sin(wt + 1.6)  
periode: 16 ben(t)= 4119.2 - 3.3 t +97.3 sin(wt - 0.5)  
periode: 17 ben(t)= 4113.9 - 3.3 t +97.3 sin(wt + 1.6)  
periode: 18 ben(t)= 4143.8 - 3.3 t +97.3 sin(wt + 0.4)  
periode: 19 ben(t)= 4139.4 - 3.3 t +97.3 sin(wt + 1.6)  
periode: 20 ben(t)= 4126.8 - 3.3 t +97.3 sin(wt + 1.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	116.98	118.16	116.16	118.78	120.46	120.04	119.65	117.76	96.33	99.75	111.73	115.22	111.28	96.80	127.48	97.67	108.28	111.63	122.85	131.97	117.70	121.24
3	259.45	261.73	258.90	259.70	264.08	262.30	261.64	262.56	238.54	239.06	268.80	264.94	256.57	231.65	269.20	220.64	246.04	251.94	254.44	272.03	254.23	255.81
2	397.80	402.50	402.24	405.92	413.50	417.87	414.29	415.46	380.02	377.99	398.52	393.63	367.04	351.70	396.31	352.02	375.60	371.82	370.57	390.35	380.18	378.12
1	663.94	621.92	613.60	666.40	682.41	653.03	606.33	665.36	622.17	571.98	554.73	583.53	541.04	567.31	576.39	551.48	546.38	533.20	536.46	615.00	566.67	578.71
-1	1894.29	1668.84	1949.04	1919.88	1893.75	1739.64	1660.24	1854.56	1851.38	1759.50	1911.77	1758.67	1712.71	1763.88	1757.85	1724.89	1604.68	1895.14	2061.15	2018.92	2045.83	2014.88
-2	684.21	608.49	660.75	697.01	779.08	802.19	747.02	674.88	736.87	645.50	623.85	668.00	635.02	646.83	631.25	664.61	669.92	707.29	709.25	735.56	765.83	730.27
totaal	4016.67	3681.63	4000.70	4067.69	4153.28	3995.07	3809.17	3990.58	3925.32	3693.79	3869.40	3783.99	3623.67	3658.17	3758.49	3611.31	3550.90	3871.03	4054.72	4163.84	4130.45	4079.03

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3900.dat
uitvoerfiles:i:\scratch\boschloo\3900ta.uit,i:\scratch\boschloo\3900ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -130.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-2.93
amplitude:97.75
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3644.7 - 2.9 t
periode: 2  ben(t)= 3644.7 - 2.9 t
periode: 3  ben(t)= 3640.4 - 2.9 t +97.7 sin(wt - 0.3)
periode: 4  ben(t)= 3639.1 - 2.9 t +97.7 sin(wt + 0.3)
periode: 5  ben(t)= 3648.2 - 2.9 t +97.7 sin(wt + 0.1)
periode: 6  ben(t)= 3645.2 - 2.9 t +97.7 sin(wt + 0.4)
periode: 7  ben(t)= 3641.9 - 2.9 t +97.7 sin(wt + 1.6)
periode: 8  ben(t)= 3636.7 - 2.9 t +97.7 sin(wt - 0.1)
periode: 9  ben(t)= 3632.2 - 2.9 t +97.7 sin(wt + 0.0)
periode: 10 ben(t)= 3643.2 - 2.9 t +97.7 sin(wt + 0.1)
periode: 11 ben(t)= 3644.7 - 2.9 t +97.7 sin(wt - 0.8)
periode: 12 ben(t)= 3650.5 - 2.9 t +97.7 sin(wt + 1.1)
periode: 13 ben(t)= 3639.3 - 2.9 t +97.7 sin(wt - 1.1)
periode: 14 ben(t)= 3650.3 - 2.9 t +97.7 sin(wt + 0.8)
periode: 15 ben(t)= 3637.3 - 2.9 t +97.7 sin(wt - 0.1)
periode: 16 ben(t)= 3640.9 - 2.9 t +97.7 sin(wt - 0.8)
periode: 17 ben(t)= 3645.2 - 2.9 t +97.7 sin(wt + 0.7)
periode: 18 ben(t)= 3661.1 - 2.9 t +97.7 sin(wt + 0.7)
periode: 19 ben(t)= 3633.1 - 2.9 t +97.7 sin(wt - 0.6)
periode: 20 ben(t)= 3643.3 - 2.9 t +97.7 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	71.33	73.46	75.83	73.92	52.17	53.56	52.41	55.83	52.75	58.17	55.46	57.42	57.65	57.05	56.69	54.59	63.02	65.26	59.67	66.50	66.06	66.27
3	198.53	204.86	211.25	204.80	187.35	190.28	196.13	204.55	204.54	219.69	220.97	218.01	219.85	216.26	212.01	213.15	221.48	221.67	216.75	218.84	214.37	215.00
2	350.26	353.88	354.32	349.92	324.39	325.79	327.08	331.58	332.56	341.46	327.20	331.47	319.48	319.54	329.73	321.95	332.34	333.06	316.89	322.20	315.48	315.29
1	527.36	539.07	484.27	530.05	485.58	532.23	550.77	553.52	533.66	478.83	441.27	493.34	512.25	515.80	545.54	503.84	531.70	426.26	432.60	451.14	448.15	475.57
-1	1711.57	1535.32	1520.11	1636.51	1581.31	1622.60	1704.18	1783.19	1695.35	1598.99	1621.61	1779.15	1616.45	1657.25	1679.44	1639.95	1620.19	1464.12	1649.28	1813.94	1668.05	1717.06
-2	701.43	642.52	648.38	678.83	731.78	710.23	777.53	751.81	736.30	604.37	598.74	627.46	603.33	626.97	569.89	637.30	631.14	619.94	680.71	743.15	756.46	739.39
totaal	3560.48	3349.11	3294.18	3474.03	3362.57	3434.69	3608.10	3680.47	3555.17	3301.52	3265.24	3506.85	3329.00	3392.87	3393.30	3370.78	3399.87	3130.29	3355.92	3615.78	3468.58	3528.57



source program:SIRENE  
 stuurprogramma:a:\stuur\stuur\stu  
 sourcefile:b:\invoer\r3925.dat  
 uitvoerfiles:i:\scratch\boschloo\3925ta.uit,i:\scratch\boschloo\3925ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -168.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-2.61  
 amplitude:98.19  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4371.9 - 2.6 t  
 periode: 2 ben(t)= 4371.9 - 2.6 t  
 periode: 3 ben(t)= 4368.4 - 2.6 t +98.2 sin(wt + 0.1)  
 periode: 4 ben(t)= 4366.5 - 2.6 t +98.2 sin(wt + 1.3)  
 periode: 5 ben(t)= 4374.7 - 2.6 t +98.2 sin(wt + 0.2)  
 periode: 6 ben(t)= 4379.2 - 2.6 t +98.2 sin(wt - 0.7)  
 periode: 7 ben(t)= 4368.1 - 2.6 t +98.2 sin(wt + 1.2)  
 periode: 8 ben(t)= 4365.1 - 2.6 t +98.2 sin(wt - 1.0)  
 periode: 9 ben(t)= 4360.0 - 2.6 t +98.2 sin(wt - 0.5)  
 periode: 10 ben(t)= 4373.2 - 2.6 t +98.2 sin(wt + 0.5)  
 periode: 11 ben(t)= 4371.9 - 2.6 t +98.2 sin(wt - 0.4)  
 periode: 12 ben(t)= 4380.2 - 2.6 t +98.2 sin(wt + 0.6)  
 periode: 13 ben(t)= 4362.5 - 2.6 t +98.2 sin(wt - 0.8)  
 periode: 14 ben(t)= 4382.8 - 2.6 t +98.2 sin(wt + 0.5)  
 periode: 15 ben(t)= 4375.1 - 2.6 t +98.2 sin(wt + 0.4)  
 periode: 16 ben(t)= 4360.2 - 2.6 t +98.2 sin(wt + 1.6)  
 periode: 17 ben(t)= 4383.3 - 2.6 t +98.2 sin(wt + 0.1)  
 periode: 18 ben(t)= 4382.6 - 2.6 t +98.2 sin(wt + 1.6)  
 periode: 19 ben(t)= 4367.4 - 2.6 t +98.2 sin(wt + 0.1)  
 periode: 20 ben(t)= 4370.6 - 2.6 t +98.2 sin(wt + 1.6)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	85.16	87.36	92.56	87.87	97.31	99.70	103.56	103.34	106.11	108.33	114.22
	113.03	115.10	119.29	115.37	127.54	123.30	119.27	120.86	122.69	122.69	126.32
3	338.48	339.03	345.00	347.79	343.74	353.66	359.22	355.27	360.43	363.28	362.43
	364.93	372.97	379.05	367.79	378.34	379.66	381.17	381.49	382.38	382.38	382.64
2	488.24	489.38	488.53	487.71	486.49	488.53	493.37	492.04	494.59	496.75	487.50
	491.26	496.83	501.09	503.00	512.95	507.29	503.73	498.70	493.54	493.54	494.25
1	706.95	675.22	689.46	668.77	717.81	722.59	770.62	740.08	715.87	672.05	676.68
	685.65	737.82	766.49	687.54	709.96	722.28	670.16	691.32	703.39	719.00	724.19
-1	1772.77	1510.40	1823.21	1709.72	1968.88	1736.41	1873.75	1777.67	1866.14	1698.20	1754.14
	2140.29	1978.42	1861.68	1715.66	1757.57	1931.93	1713.37	1618.00	1934.78	1873.93	1750.33
-2	663.63	578.14	634.76	671.47	777.83	722.97	827.25	750.50	792.12	633.77	633.40
	671.78	661.06	663.67	610.84	667.00	682.73	695.48	733.50	726.83	707.67	732.67
totaal	4055.22	3679.53	4073.52	3973.34	4392.05	4123.87	4427.77	4218.90	4335.27	3972.38	4028.38
	4466.94	4362.20	4291.27	4000.20	4153.37	4347.18	4083.18	4043.87	4363.61	4299.21	4210.39

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r3950.dat  
 uitvoerfiles:i:\scratch\boschloo\3950ta.uit,i:\scratch\boschloo\3950ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -195.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-2.29  
 amplitude:98.63  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4687.4 - 2.3 t  
 periode: 2 ben(t)= 4687.4 - 2.3 t  
 periode: 3 ben(t)= 4683.8 - 2.3 t +98.6 sin(wt + 0.1)  
 periode: 4 ben(t)= 4681.9 - 2.3 t +98.6 sin(wt + 0.3)  
 periode: 5 ben(t)= 4686.8 - 2.3 t +98.6 sin(wt + 0.7)  
 periode: 6 ben(t)= 4692.8 - 2.3 t +98.6 sin(wt - 0.3)  
 periode: 7 ben(t)= 4683.1 - 2.3 t +98.6 sin(wt + 0.4)  
 periode: 8 ben(t)= 4681.8 - 2.3 t +98.6 sin(wt + 0.4)  
 periode: 9 ben(t)= 4676.2 - 2.3 t +98.6 sin(wt + 0.3)  
 periode: 10 ben(t)= 4688.0 - 2.3 t +98.6 sin(wt + 0.4)  
 periode: 11 ben(t)= 4687.4 - 2.3 t +98.6 sin(wt - 0.2)  
 periode: 12 ben(t)= 4696.0 - 2.3 t +98.6 sin(wt + 0.1)  
 periode: 13 ben(t)= 4672.3 - 2.3 t +98.6 sin(wt - 0.1)  
 periode: 14 ben(t)= 4706.2 - 2.3 t +98.6 sin(wt - 0.2)  
 periode: 15 ben(t)= 4692.4 - 2.3 t +98.6 sin(wt + 0.4)  
 periode: 16 ben(t)= 4672.9 - 2.3 t +98.6 sin(wt - 0.2)  
 periode: 17 ben(t)= 4705.0 - 2.3 t +98.6 sin(wt - 0.4)  
 periode: 18 ben(t)= 4702.4 - 2.3 t +98.6 sin(wt + 0.3)  
 periode: 19 ben(t)= 4687.0 - 2.3 t +98.6 sin(wt + 0.5)  
 periode: 20 ben(t)= 4678.6 - 2.3 t +98.6 sin(wt + 0.0)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	83.32	82.72	83.45	81.93	79.32	84.91	87.41	91.23	91.36	94.57	104.02
	109.03	108.39	113.44	96.62	124.99	121.63	127.21	140.63	130.50	149.75	151.71
3	369.15	372.28	368.13	366.50	362.57	356.41	356.87	358.70	363.76	367.25	363.01
	361.94	351.95	355.13	341.26	359.36	358.13	357.79	367.32	360.99	379.72	387.22
2	575.29	573.18	560.45	558.08	561.09	557.82	566.39	574.87	585.09	586.60	585.95
	584.48	576.18	579.31	566.35	594.10	598.00	590.91	593.69	579.16	596.56	600.19
1	789.64	800.02	801.16	761.06	784.68	823.97	838.13	856.25	855.62	808.04	824.96
	809.88	868.18	899.25	820.45	866.08	871.94	822.33	825.18	804.54	885.19	855.00
-1	1741.88	1817.66	1922.68	1706.83	1848.46	1801.25	1976.59	1919.04	1979.71	1815.11	1862.21
	2030.04	2159.13	2033.28	1975.67	2014.72	2057.67	2066.17	2078.39	1946.87	2005.44	2019.22
-2	715.12	692.91	668.61	598.99	723.99	728.75	752.94	768.17	761.57	689.72	652.33
	684.07	666.88	667.22	660.88	682.78	687.63	704.93	714.66	682.88	643.00	701.33
totaal	4274.40	4338.78	4404.49	4073.39	4360.12	4353.11	4578.31	4568.26	4637.13	4361.30	4392.48
	4579.44	4730.70	4647.63	4461.23	4642.02	4695.00	4669.35	4719.86	4504.93	4659.65	4714.68

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r3975.dat
uitvoerfiles:i:\scratch\boschloo\3975ta.uit,i:\scratch\boschloo\3975ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -173.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-1.97
amplitude:99.07
fase/jr opgang:vrij

```

```

periode: 1 ben(t)= 4440.1 - 2.0 t
periode: 2 ben(t)= 4440.1 - 2.0 t
periode: 3 ben(t)= 4436.3 - 2.0 t +99.1 sin(wt - 1.1)
periode: 4 ben(t)= 4433.8 - 2.0 t +99.1 sin(wt + 0.6)
periode: 5 ben(t)= 4446.0 - 2.0 t +99.1 sin(wt - 0.3)
periode: 6 ben(t)= 4446.5 - 2.0 t +99.1 sin(wt - 0.4)
periode: 7 ben(t)= 4438.7 - 2.0 t +99.1 sin(wt - 0.6)
periode: 8 ben(t)= 4443.2 - 2.0 t +99.1 sin(wt + 1.6)
periode: 9 ben(t)= 4437.0 - 2.0 t +99.1 sin(wt + 1.2)
periode: 10 ben(t)= 4443.1 - 2.0 t +99.1 sin(wt + 0.7)
periode: 11 ben(t)= 4440.1 - 2.0 t +99.1 sin(wt + 0.7)
periode: 12 ben(t)= 4443.0 - 2.0 t +99.1 sin(wt - 1.0)
periode: 13 ben(t)= 4438.2 - 2.0 t +99.1 sin(wt + 1.6)
periode: 14 ben(t)= 4431.5 - 2.0 t +99.1 sin(wt + 1.6)
periode: 15 ben(t)= 4461.1 - 2.0 t +99.1 sin(wt + 1.6)
periode: 16 ben(t)= 4422.0 - 2.0 t +99.1 sin(wt + 0.0)
periode: 17 ben(t)= 4425.6 - 2.0 t +99.1 sin(wt + 1.6)
periode: 18 ben(t)= 4453.8 - 2.0 t +99.1 sin(wt + 0.1)
periode: 19 ben(t)= 4451.5 - 2.0 t +99.1 sin(wt + 1.6)
periode: 20 ben(t)= 4438.7 - 2.0 t +99.1 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	161.67	164.81	168.66	176.37	191.45	198.10	201.39	197.66	194.13	195.18	207.47
	217.40	224.53	219.12	202.49	210.88	228.34	230.71	123.47	197.35	148.17	160.79
3	423.00	418.46	409.76	405.70	407.39	390.94	389.72	388.49	383.25	386.83	389.97
	390.19	393.69	397.46	391.18	395.52	401.57	403.77	290.87	365.35	308.82	326.40
2	580.83	574.26	560.17	559.36	559.50	532.29	532.87	539.76	553.83	556.84	561.06
	564.62	544.66	545.84	555.04	564.37	570.81	569.21	450.28	526.20	453.59	471.05
1	727.77	710.30	679.82	695.07	669.93	647.93	697.45	755.85	767.21	753.91	745.00
	713.95	713.66	778.18	740.45	742.95	790.80	732.30	608.48	703.00	577.89	632.74
-1	1819.03	1726.80	1496.26	1673.35	1627.58	1573.50	1740.70	1810.78	1909.51	1932.55	1868.37
	1886.44	2096.05	1971.12	1812.76	1997.98	1775.82	1811.93	1765.20	1796.11	1540.04	1788.18
-2	715.97	662.70	642.17	686.34	760.25	655.00	683.67	690.22	749.85	664.75	630.43
	655.78	634.87	635.38	715.28	716.77	639.12	692.16	678.94	674.53	576.78	678.63
totaal	4428.28	4257.33	3956.84	4196.18	4216.10	3997.75	4245.79	4382.75	4557.77	4490.06	4402.30
	4428.38	4607.45	4547.10	4417.19	4628.48	4406.45	4440.07	3917.25	4262.53	3605.28	4057.79

```

source program:SIRENE
stuurprogramma:a:\stuur\stuur1.stu
sourcefile:b:\invoer\r4000.dat
uitvoerfiles:i:\scratch\boschloo\4000ta.uit,i:\scratch\boschloo\4000ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -135.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:-1.65
amplitude:99.51
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3849.6 - 1.7 t
periode: 2  ben(t)= 3849.6 - 1.7 t
periode: 3  ben(t)= 3845.1 - 1.7 t +99.5 sin(wt - 0.4)
periode: 4  ben(t)= 3845.2 - 1.7 t +99.5 sin(wt - 0.0)
periode: 5  ben(t)= 3856.3 - 1.7 t +99.5 sin(wt - 0.5)
periode: 6  ben(t)= 3851.8 - 1.7 t +99.5 sin(wt + 0.2)
periode: 7  ben(t)= 3846.8 - 1.7 t +99.5 sin(wt + 1.6)
periode: 8  ben(t)= 3847.6 - 1.7 t +99.5 sin(wt + 0.9)
periode: 9  ben(t)= 3839.3 - 1.7 t +99.5 sin(wt + 0.5)
periode: 10 ben(t)= 3848.1 - 1.7 t +99.5 sin(wt + 0.1)
periode: 11 ben(t)= 3849.6 - 1.7 t +99.5 sin(wt + 0.4)
periode: 12 ben(t)= 3854.4 - 1.7 t +99.5 sin(wt - 0.7)
periode: 13 ben(t)= 3837.8 - 1.7 t +99.5 sin(wt + 0.8)
periode: 14 ben(t)= 3867.3 - 1.7 t +99.5 sin(wt - 0.9)
periode: 15 ben(t)= 3854.3 - 1.7 t +99.5 sin(wt + 0.4)
periode: 16 ben(t)= 3828.2 - 1.7 t +99.5 sin(wt + 0.6)
periode: 17 ben(t)= 3868.8 - 1.7 t +99.5 sin(wt - 1.0)
periode: 18 ben(t)= 3855.2 - 1.7 t +99.5 sin(wt - 0.5)
periode: 19 ben(t)= 3855.5 - 1.7 t +99.5 sin(wt + 1.0)
periode: 20 ben(t)= 3848.2 - 1.7 t +99.5 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	20.49	22.51	34.14	39.23	44.96	46.99	44.97	46.20	44.36	46.12	51.15
	67.30	48.73	46.45	50.58	66.08	57.07	70.47	81.61	74.03	99.68	104.01
3	351.06	358.17	365.53	364.87	367.41	370.01	371.08	370.14	370.53	376.17	376.34
	380.76	368.30	365.11	362.52	367.32	369.64	374.46	380.54	370.37	372.70	374.60
2	423.14	421.35	429.35	429.06	430.27	428.05	428.82	429.99	434.08	440.11	438.87
	442.68	403.60	406.42	413.01	421.35	422.49	423.44	421.38	409.09	410.25	413.47
1	565.01	570.17	579.69	640.55	556.70	545.38	550.77	578.03	584.66	629.80	614.45
	571.54	514.94	571.52	594.37	567.89	586.50	550.75	542.65	538.79	509.60	542.63
-1	1655.00	1728.93	1576.80	1771.72	1649.96	1454.87	1611.75	1518.40	1714.13	1843.04	1723.66
	1655.93	1728.62	1752.74	1725.35	1825.85	1789.94	1692.57	1615.83	1624.10	1541.80	1537.47
-2	661.50	721.32	637.71	683.20	665.38	619.61	636.50	594.46	653.55	623.21	570.82
	596.28	586.71	590.83	670.53	674.80	639.01	697.77	667.92	638.65	609.70	643.82
totaal	3676.20	3822.45	3623.23	3928.63	3714.69	3464.90	3643.90	3537.23	3801.31	3958.45	3775.27
	3714.49	3650.90	3733.07	3816.35	3923.30	3864.65	3809.45	3709.93	3655.03	3543.73	3616.00

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4025.dat  
 uitvoerfiles:i:\scratch\boschloo\4025ta.uit,i:\scratch\boschloo\4025ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -171.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-1.33  
 amplitude:99.95  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4547.5 - 1.3 t  
 periode: 2 ben(t)= 4547.5 - 1.3 t  
 periode: 3 ben(t)= 4544.0 - 1.3 t +100.0 sin(wt + 0.1)  
 periode: 4 ben(t)= 4541.9 - 1.3 t +100.0 sin(wt + 0.3)  
 periode: 5 ben(t)= 4552.7 - 1.3 t +100.0 sin(wt - 0.1)  
 periode: 6 ben(t)= 4554.3 - 1.3 t +100.0 sin(wt - 0.5)  
 periode: 7 ben(t)= 4544.6 - 1.3 t +100.0 sin(wt - 0.2)  
 periode: 8 ben(t)= 4541.2 - 1.3 t +100.0 sin(wt + 0.3)  
 periode: 9 ben(t)= 4537.5 - 1.3 t +100.0 sin(wt + 0.5)  
 periode: 10 ben(t)= 4543.3 - 1.3 t +100.0 sin(wt - 0.2)  
 periode: 11 ben(t)= 4547.5 - 1.3 t +100.0 sin(wt - 0.2)  
 periode: 12 ben(t)= 4556.3 - 1.3 t +100.0 sin(wt + 0.3)  
 periode: 13 ben(t)= 4532.1 - 1.3 t +100.0 sin(wt - 0.0)  
 periode: 14 ben(t)= 4567.4 - 1.3 t +100.0 sin(wt - 0.5)  
 periode: 15 ben(t)= 4560.6 - 1.3 t +100.0 sin(wt + 0.9)  
 periode: 16 ben(t)= 4531.4 - 1.3 t +100.0 sin(wt - 0.1)  
 periode: 17 ben(t)= 4567.2 - 1.3 t +100.0 sin(wt - 0.8)  
 periode: 18 ben(t)= 4561.1 - 1.3 t +100.0 sin(wt + 0.1)  
 periode: 19 ben(t)= 4551.1 - 1.3 t +100.0 sin(wt + 0.8)  
 periode: 20 ben(t)= 4538.9 - 1.3 t +100.0 sin(wt + 0.4)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	127.13	140.72	150.40	152.59	167.21	173.95	182.24	186.72	192.64	181.86	200.19	210.17	209.29	196.56	212.75	234.16	226.36	238.19	212.81	221.29	225.40	212.03
3	405.67	411.87	411.35	417.07	418.80	422.74	423.67	427.23	426.76	426.44	430.63	436.02	420.68	414.79	412.33	408.78	409.36	408.93	378.15	409.15	411.44	381.56
2	548.53	549.25	544.02	544.46	544.27	545.76	549.97	556.59	547.54	547.61	546.61	554.98	522.09	520.17	520.31	525.03	523.71	524.39	497.56	519.98	515.36	489.25
1	835.77	800.01	757.13	770.82	806.37	784.70	797.72	782.08	791.44	776.96	781.90	793.15	750.82	746.42	770.61	747.45	732.11	748.49	678.37	718.49	717.49	675.38
-1	2130.01	2008.95	1717.08	1788.85	1909.79	1844.83	1862.52	1694.30	1974.97	2053.83	1926.58	1994.64	1833.75	1817.50	1810.16	1787.56	1750.79	1793.33	1867.05	1780.92	1791.99	1757.75
-2	703.39	758.76	767.39	739.22	779.00	686.08	711.39	637.16	683.33	645.78	655.55	673.30	665.75	639.92	712.96	702.59	655.57	657.39	713.63	651.22	625.36	631.71
totaal	4750.50	4669.55	4347.36	4413.00	4625.45	4458.07	4527.50	4284.08	4616.68	4632.48	4541.46	4662.26	4402.37	4335.35	4439.11	4405.57	4297.89	4370.71	4347.56	4301.04	4287.04	4147.69

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4050.dat  
 uitvoerfiles:i:\scratch\boschloo\4050ta.uit,i:\scratch\boschloo\4050ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -169.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-1.01  
 amplitude:100.39  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3880.2 - 1.0 t  
 periode: 2 ben(t)= 3880.2 - 1.0 t  
 periode: 3 ben(t)= 3876.1 - 1.0 t +100.4 sin(wt - 0.1)  
 periode: 4 ben(t)= 3876.9 - 1.0 t +100.4 sin(wt - 0.2)  
 periode: 5 ben(t)= 3874.2 - 1.0 t +100.4 sin(wt + 1.6)  
 periode: 6 ben(t)= 3886.4 - 1.0 t +100.4 sin(wt - 0.4)  
 periode: 7 ben(t)= 3876.8 - 1.0 t +100.4 sin(wt - 0.0)  
 periode: 8 ben(t)= 3883.4 - 1.0 t +100.4 sin(wt + 1.6)  
 periode: 9 ben(t)= 3875.3 - 1.0 t +100.4 sin(wt + 1.0)  
 periode: 10 ben(t)= 3873.3 - 1.0 t +100.4 sin(wt - 0.6)  
 periode: 11 ben(t)= 3880.2 - 1.0 t +100.4 sin(wt + 1.0)  
 periode: 12 ben(t)= 3882.5 - 1.0 t +100.4 sin(wt + 1.6)  
 periode: 13 ben(t)= 3878.3 - 1.0 t +100.4 sin(wt + 1.6)  
 periode: 14 ben(t)= 3871.5 - 1.0 t +100.4 sin(wt + 1.6)  
 periode: 15 ben(t)= 3875.3 - 1.0 t +100.4 sin(wt - 0.0)  
 periode: 16 ben(t)= 3868.2 - 1.0 t +100.4 sin(wt + 1.6)  
 periode: 17 ben(t)= 3897.4 - 1.0 t +100.4 sin(wt - 1.3)  
 periode: 18 ben(t)= 3891.1 - 1.0 t +100.4 sin(wt + 1.6)  
 periode: 19 ben(t)= 3880.4 - 1.0 t +100.4 sin(wt + 0.5)  
 periode: 20 ben(t)= 3878.8 - 1.0 t +100.4 sin(wt + 1.6)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	123.46	81.11	71.19	44.99	15.63	50.96	56.10	61.40	58.85	57.52	58.44
	62.00	65.44	63.50	65.71	71.42	70.49	67.94	72.51	69.74	69.26	52.82
3	292.30	239.29	225.89	182.56	81.06	180.10	190.09	192.66	177.80	178.24	183.52
	188.21	197.83	196.58	197.21	205.11	212.74	218.01	235.66	236.86	234.83	220.30
2	471.12	418.73	416.15	369.55	255.30	345.61	370.21	376.34	368.74	381.91	374.98
	379.51	388.55	391.37	393.75	402.80	411.66	416.44	424.43	418.64	416.65	392.97
1	792.52	716.73	681.24	615.45	519.26	602.18	622.45	572.47	571.48	548.31	574.43
	602.49	578.43	583.97	595.31	602.37	581.78	594.27	587.18	554.02	545.38	553.11
-1	2153.59	1981.84	1969.41	1787.75	1786.63	1761.63	1957.60	1841.79	1757.90	1859.97	1803.27
	2039.83	2007.90	1769.29	1852.23	1994.42	1824.48	1951.84	1772.28	1820.67	1642.58	1774.20
-2	677.91	700.19	764.45	769.49	745.37	707.50	709.13	672.87	628.48	606.85	641.73
	660.68	653.29	613.46	674.67	707.80	732.39	681.40	630.47	670.91	603.78	684.25
totaal	4510.91	4137.90	4128.33	3769.80	3403.25	3647.98	3905.59	3717.52	3563.24	3632.81	3636.38
	3932.71	3891.43	3618.18	3778.87	3983.91	3833.53	3929.90	3722.52	3770.83	3512.47	3677.65

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4075.dat
uitvoerfiles:i:\scratch\boschloo\4075ta.uit,i:\scratch\boschloo\4075ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -215.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

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```

trend:-0.69
amplitude:100.83
fase/jr opgang:vrij

```

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periode: 1  ben(t)= 4190.1 - 0.7 t
periode: 2  ben(t)= 4190.1 - 0.7 t
periode: 3  ben(t)= 4185.6 - 0.7 t +100.8 sin(wt - 0.3)
periode: 4  ben(t)= 4185.8 - 0.7 t +100.8 sin(wt - 0.1)
periode: 5  ben(t)= 4189.2 - 0.7 t +100.8 sin(wt + 0.7)
periode: 6  ben(t)= 4195.7 - 0.7 t +100.8 sin(wt - 0.3)
periode: 7  ben(t)= 4187.1 - 0.7 t +100.8 sin(wt - 0.2)
periode: 8  ben(t)= 4184.5 - 0.7 t +100.8 sin(wt + 0.5)
periode: 9  ben(t)= 4177.1 - 0.7 t +100.8 sin(wt + 0.0)
periode: 10 ben(t)= 4185.4 - 0.7 t +100.8 sin(wt - 0.2)
periode: 11 ben(t)= 4190.1 - 0.7 t +100.8 sin(wt + 1.6)
periode: 12 ben(t)= 4192.4 - 0.7 t +100.8 sin(wt + 1.6)
periode: 13 ben(t)= 4188.2 - 0.7 t +100.8 sin(wt + 1.6)
periode: 14 ben(t)= 4181.4 - 0.7 t +100.8 sin(wt + 1.6)
periode: 15 ben(t)= 4180.1 - 0.7 t +100.8 sin(wt - 0.3)
periode: 16 ben(t)= 4178.0 - 0.7 t +100.8 sin(wt + 1.6)
periode: 17 ben(t)= 4209.8 - 0.7 t +100.8 sin(wt - 0.7)
periode: 18 ben(t)= 4201.0 - 0.7 t +100.8 sin(wt + 1.6)
periode: 19 ben(t)= 4187.7 - 0.7 t +100.8 sin(wt + 0.3)
periode: 20 ben(t)= 4188.6 - 0.7 t +100.8 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	47.10	49.54	46.84	44.09	42.07	38.97	39.27	37.40	36.29	38.51	59.74
	40.37	39.04	37.19	59.08	35.25	58.35	58.61	37.69	57.50	35.47	30.84
3	194.74	189.47	184.08	180.58	169.73	167.72	165.51	163.46	156.88	160.62	184.45
	153.39	163.86	162.43	192.11	174.95	207.06	218.05	206.32	223.40	203.86	212.23
2	389.97	392.41	389.16	389.53	390.05	383.96	391.72	404.15	406.90	411.98	430.15
	386.49	394.71	395.30	431.97	416.18	446.10	449.39	423.91	427.63	403.15	412.09
1	701.20	696.62	693.17	700.60	656.29	653.05	618.80	636.05	645.71	615.14	646.06
	654.47	664.69	696.18	700.10	700.03	758.08	689.65	635.93	633.21	637.69	664.36
-1	2319.25	2242.89	2235.51	1989.35	1968.64	2004.63	2127.52	1998.02	2013.28	1990.41	2133.24
	2068.74	2280.70	2175.00	2169.10	2170.64	2193.85	2058.82	2070.60	2124.09	2013.47	2099.14
-2	725.00	715.49	740.92	784.32	805.52	756.13	752.17	718.03	654.56	662.29	687.27
	725.70	711.80	676.33	702.94	725.29	722.75	774.43	742.73	702.40	708.25	737.95
totaal	4377.26	4286.42	4289.69	4088.48	4032.30	4004.44	4094.98	3957.11	3913.61	3878.95	4140.90
	4029.16	4254.80	4142.43	4255.30	4222.33	4386.19	4248.96	4117.18	4168.24	4001.90	4156.61

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4100.dat  
 uitvoerfiles:i:\scratch\boschloo\4100ta.uit,i:\scratch\boschloo\4100ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -195.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-0.37  
 amplitude:101.28  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4269.5 - 0.4 t  
 periode: 2 ben(t)= 4269.5 - 0.4 t  
 periode: 3 ben(t)= 4266.3 - 0.4 t +101.3 sin(wt + 0.3)  
 periode: 4 ben(t)= 4266.0 - 0.4 t +101.3 sin(wt - 0.2)  
 periode: 5 ben(t)= 4275.2 - 0.4 t +101.3 sin(wt - 0.2)  
 periode: 6 ben(t)= 4270.0 - 0.4 t +101.3 sin(wt + 0.5)  
 periode: 7 ben(t)= 4268.4 - 0.4 t +101.3 sin(wt - 0.7)  
 periode: 8 ben(t)= 4264.1 - 0.4 t +101.3 sin(wt + 0.5)  
 periode: 9 ben(t)= 4257.4 - 0.4 t +101.3 sin(wt + 0.2)  
 periode: 10 ben(t)= 4275.2 - 0.4 t +101.3 sin(wt + 1.0)  
 periode: 11 ben(t)= 4269.5 - 0.4 t +101.3 sin(wt - 0.0)  
 periode: 12 ben(t)= 4276.1 - 0.4 t +101.3 sin(wt - 0.5)  
 periode: 13 ben(t)= 4253.9 - 0.4 t +101.3 sin(wt + 0.3)  
 periode: 14 ben(t)= 4283.9 - 0.4 t +101.3 sin(wt + 0.3)  
 periode: 15 ben(t)= 4249.3 - 0.4 t +101.3 sin(wt - 1.0)  
 periode: 16 ben(t)= 4247.8 - 0.4 t +101.3 sin(wt + 0.5)  
 periode: 17 ben(t)= 4276.9 - 0.4 t +101.3 sin(wt + 0.4)  
 periode: 18 ben(t)= 4276.8 - 0.4 t +101.3 sin(wt - 0.4)  
 periode: 19 ben(t)= 4259.8 - 0.4 t +101.3 sin(wt - 0.3)  
 periode: 20 ben(t)= 4260.4 - 0.4 t +101.3 sin(wt + 0.2)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	70.05	70.69	70.96	79.41	73.33	85.09	64.39	66.26	62.80	83.85	84.23
	86.81	66.02	67.89	87.97	68.77	85.66	80.46	83.03	103.03	107.85	91.70
3	213.78	219.40	222.86	230.44	228.45	252.30	228.20	228.95	228.34	258.23	258.35
	256.78	233.37	229.31	266.18	235.31	262.82	246.10	247.05	278.73	278.54	254.29
2	441.12	446.90	452.33	460.94	458.61	480.04	458.07	461.90	454.82	485.31	470.50
	476.44	422.59	424.33	453.78	439.30	460.94	434.42	443.85	452.91	457.77	439.90
1	746.88	743.39	762.12	808.74	768.21	777.29	715.19	771.80	767.17	769.90	776.80
	721.43	710.31	747.28	805.27	806.21	843.33	770.19	758.80	785.95	775.15	744.95
-1	1906.17	1874.34	2137.18	1992.20	1855.46	1879.13	1922.68	2092.55	1996.91	1983.85	1861.81
	1835.56	1915.62	2112.06	2048.17	2175.00	2121.00	2161.89	1937.21	2034.67	1992.37	1979.47
-2	680.25	696.41	726.08	766.62	789.96	791.68	765.73	699.37	656.17	673.64	660.82
	689.68	664.63	680.56	671.00	683.00	692.25	755.50	698.32	712.50	660.72	738.47
totaal	4058.25	4051.12	4371.54	4338.35	4174.01	4265.54	4154.26	4320.83	4166.22	4254.78	4112.51
	4066.71	4012.54	4261.42	4332.37	4407.60	4466.00	4448.56	4168.27	4367.78	4272.39	4248.79



source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4125.dat  
 uitvoerfiles:i:\scratch\boschloo\4125ta.uit,i:\scratch\boschloo\4125ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -135.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:-0.05  
 amplitude:101.72  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3640.1 - 0.1 t  
 periode: 2 ben(t)= 3640.1 - 0.1 t  
 periode: 3 ben(t)= 3637.0 - 0.1 t +101.7 sin(wt + 0.3)  
 periode: 4 ben(t)= 3639.2 - 0.1 t +101.7 sin(wt - 0.7)  
 periode: 5 ben(t)= 3647.6 - 0.1 t +101.7 sin(wt - 0.9)  
 periode: 6 ben(t)= 3641.9 - 0.1 t +101.7 sin(wt + 0.3)  
 periode: 7 ben(t)= 3636.7 - 0.1 t +101.7 sin(wt - 0.1)  
 periode: 8 ben(t)= 3632.4 - 0.1 t +101.7 sin(wt + 0.0)  
 periode: 9 ben(t)= 3628.3 - 0.1 t +101.7 sin(wt + 0.3)  
 periode: 10 ben(t)= 3648.5 - 0.1 t +101.7 sin(wt + 1.6)  
 periode: 11 ben(t)= 3640.1 - 0.1 t +101.7 sin(wt - 1.2)  
 periode: 12 ben(t)= 3648.9 - 0.1 t +101.7 sin(wt + 0.4)  
 periode: 13 ben(t)= 3629.2 - 0.1 t +101.7 sin(wt - 0.7)  
 periode: 14 ben(t)= 3631.3 - 0.1 t +101.7 sin(wt + 1.6)  
 periode: 15 ben(t)= 3661.7 - 0.1 t +101.7 sin(wt + 1.6)  
 periode: 16 ben(t)= 3622.8 - 0.1 t +101.7 sin(wt - 0.1)  
 periode: 17 ben(t)= 3625.3 - 0.1 t +101.7 sin(wt + 1.6)  
 periode: 18 ben(t)= 3654.5 - 0.1 t +101.7 sin(wt + 0.1)  
 periode: 19 ben(t)= 3651.9 - 0.1 t +101.7 sin(wt + 1.6)  
 periode: 20 ben(t)= 3637.6 - 0.1 t +101.7 sin(wt - 1.1)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	60.28	57.11	57.38	61.33	64.50	63.07	64.15	66.01	65.17	64.03	66.77
	74.15	69.08	69.96	58.21	70.98	72.98	80.78	84.77	86.62	104.38	101.29
3	252.81	256.81	256.29	264.37	269.87	269.33	269.01	276.34	279.56	279.26	283.87
	289.87	276.31	276.58	264.97	280.29	281.50	288.64	286.52	289.37	303.27	302.98
2	373.20	372.34	373.56	379.94	388.71	392.51	401.81	405.43	415.00	418.30	395.37
	400.39	362.19	365.55	364.84	373.84	379.85	379.69	386.70	387.38	401.49	405.65
1	529.07	534.02	506.55	595.29	586.93	581.91	561.69	579.64	590.60	546.12	534.60
	509.39	512.73	505.66	542.76	568.61	586.64	577.16	576.58	585.56	575.93	580.12
-1	1554.00	1513.75	1672.75	1772.90	1684.79	1649.47	1551.00	1864.94	1658.08	1624.56	1618.76
	1548.98	1486.34	1615.14	1859.67	1965.83	1500.00	1874.82	1828.73	1747.25	1652.50	1665.44
-2	613.33	618.45	626.65	678.35	686.55	774.33	705.91	657.00	580.67	602.38	595.72
	652.21	593.26	634.15	647.73	669.67	598.33	710.43	755.36	775.55	743.70	715.50
totaal	3382.68	3352.48	3493.17	3752.18	3681.33	3730.63	3553.58	3849.35	3589.08	3534.65	3495.08
	3474.98	3299.90	3467.05	3738.18	3929.23	3419.30	3911.53	3918.66	3871.73	3781.26	3770.98

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4150.dat  
 uitvoerfiles:i:\scratch\boschloo\4150ta.uit,i:\scratch\boschloo\4150ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -165.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:0.27  
 amplitude:102.16  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4018.7 + 0.3 t  
 periode: 2 ben(t)= 4018.7 + 0.3 t  
 periode: 3 ben(t)= 4016.2 + 0.3 t +102.2 sin(wt + 0.5)  
 periode: 4 ben(t)= 4012.6 + 0.3 t +102.2 sin(wt + 0.4)  
 periode: 5 ben(t)= 4020.9 + 0.3 t +102.2 sin(wt + 0.3)  
 periode: 6 ben(t)= 4026.4 + 0.3 t +102.2 sin(wt - 0.7)  
 periode: 7 ben(t)= 4015.1 + 0.3 t +102.2 sin(wt - 0.0)  
 periode: 8 ben(t)= 4011.0 + 0.3 t +102.2 sin(wt + 0.1)  
 periode: 9 ben(t)= 4009.0 + 0.3 t +102.2 sin(wt + 0.6)  
 periode: 10 ben(t)= 4025.9 + 0.3 t +102.2 sin(wt + 1.3)  
 periode: 11 ben(t)= 4018.7 + 0.3 t +102.2 sin(wt + 1.6)  
 periode: 12 ben(t)= 4026.3 + 0.3 t +102.2 sin(wt + 0.8)  
 periode: 13 ben(t)= 4012.4 + 0.3 t +102.2 sin(wt - 1.0)  
 periode: 14 ben(t)= 4009.9 + 0.3 t +102.2 sin(wt + 1.6)  
 periode: 15 ben(t)= 4040.4 + 0.3 t +102.2 sin(wt + 1.6)  
 periode: 16 ben(t)= 4000.1 + 0.3 t +102.2 sin(wt + 0.0)  
 periode: 17 ben(t)= 4003.8 + 0.3 t +102.2 sin(wt + 1.6)  
 periode: 18 ben(t)= 4031.1 + 0.3 t +102.2 sin(wt - 0.1)  
 periode: 19 ben(t)= 4030.5 + 0.3 t +102.2 sin(wt + 1.6)  
 periode: 20 ben(t)= 4016.9 + 0.3 t +102.2 sin(wt - 1.2)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	81.57	81.67	82.63	81.86	83.34	81.80	83.14	79.40	80.25	80.75	57.43	83.55	59.99	79.91	80.54	83.06	86.79	66.72	71.57	71.61	80.17	82.47
3	231.47	235.06	235.91	238.05	240.77	239.52	244.00	247.50	242.22	246.47	220.82	255.80	228.25	247.60	245.03	250.12	252.54	236.07	241.35	239.33	250.68	258.87
2	495.15	498.28	496.02	501.66	509.02	509.43	516.70	522.78	522.60	527.92	475.17	503.53	450.37	477.27	481.25	490.36	495.17	473.20	476.78	476.27	491.53	502.93
1	665.42	666.03	639.45	645.72	693.68	716.10	702.73	692.76	700.15	629.88	627.42	648.93	625.96	639.23	643.29	651.62	707.54	686.79	683.20	686.13	753.15	736.65
-1	1792.83	1737.87	1806.78	1825.02	1879.50	1899.89	1783.80	1836.79	1901.94	1715.37	1752.38	1823.09	1744.25	1747.61	1656.28	1867.54	1924.21	2230.75	2046.80	1990.98	1938.93	1902.45
-2	645.50	652.63	651.12	696.68	705.83	752.11	779.00	669.49	622.83	638.38	627.99	691.65	670.94	664.22	658.38	712.93	673.71	730.33	748.20	759.08	765.80	746.00
totaal	3911.94	3871.53	3911.91	3989.00	4112.15	4198.85	4109.38	4048.72	4070.00	3838.76	3761.21	4006.55	3779.77	3855.84	3764.77	4055.63	4139.95	4423.87	4267.90	4223.40	4280.26	4229.38

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4175.dat  
 uitvoerfiles:i:\scratch\boschloo\4175ta.uit,i:\scratch\boschloo\4175ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -190.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:0.59  
 amplitude:102.60  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4351.4 + 0.6 t  
 periode: 2 ben(t)= 4351.4 + 0.6 t  
 periode: 3 ben(t)= 4347.3 + 0.6 t +102.6 sin(wt - 1.0)  
 periode: 4 ben(t)= 4346.2 + 0.6 t +102.6 sin(wt + 0.1)  
 periode: 5 ben(t)= 4350.5 + 0.6 t +102.6 sin(wt + 0.7)  
 periode: 6 ben(t)= 4344.4 + 0.6 t +102.6 sin(wt + 1.6)  
 periode: 7 ben(t)= 4348.5 + 0.6 t +102.6 sin(wt + 1.6)  
 periode: 8 ben(t)= 4346.7 + 0.6 t +102.6 sin(wt - 1.4)  
 periode: 9 ben(t)= 4338.2 + 0.6 t +102.6 sin(wt + 0.0)  
 periode: 10 ben(t)= 4347.1 + 0.6 t +102.6 sin(wt - 0.2)  
 periode: 11 ben(t)= 4351.4 + 0.6 t +102.6 sin(wt + 1.6)  
 periode: 12 ben(t)= 4353.7 + 0.6 t +102.6 sin(wt + 1.6)  
 periode: 13 ben(t)= 4349.4 + 0.6 t +102.6 sin(wt + 1.6)  
 periode: 14 ben(t)= 4342.5 + 0.6 t +102.6 sin(wt + 1.6)  
 periode: 15 ben(t)= 4335.3 + 0.6 t +102.6 sin(wt - 0.6)  
 periode: 16 ben(t)= 4339.1 + 0.6 t +102.6 sin(wt + 1.6)  
 periode: 17 ben(t)= 4336.4 + 0.6 t +102.6 sin(wt + 1.6)  
 periode: 18 ben(t)= 4362.5 + 0.6 t +102.6 sin(wt + 1.6)  
 periode: 19 ben(t)= 4363.2 + 0.6 t +102.6 sin(wt + 1.6)  
 periode: 20 ben(t)= 4349.9 + 0.6 t +102.6 sin(wt + 1.6)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	153.71	153.33	105.27	154.37	133.51	155.25	152.34	153.12	96.73	156.63	157.14
	106.47	99.48	99.67	69.30	70.63	90.69	93.25	79.36	111.30	116.80	94.89
3	299.29	304.67	254.46	313.28	291.46	315.38	319.52	329.45	270.15	341.84	354.16
	288.09	267.31	277.51	245.25	245.11	269.03	281.58	269.71	313.33	317.18	294.04
2	533.87	550.29	498.42	560.02	539.55	562.95	566.32	573.26	514.49	584.86	572.23
	493.18	456.66	470.03	437.90	442.51	468.40	473.61	453.54	488.17	505.30	476.49
1	810.17	781.30	705.56	765.51	750.73	773.90	812.38	796.57	713.52	745.22	758.47
	693.73	675.90	718.06	645.98	642.21	682.38	695.54	703.86	778.52	762.43	733.25
-1	2107.84	1961.75	1798.35	1897.64	2041.02	2062.64	2151.58	1939.66	1949.44	1804.85	2003.94
	2221.95	2067.44	2087.47	1803.76	1983.25	1958.48	2060.48	2160.81	2223.30	2035.52	2076.11
-2	660.60	685.05	655.54	690.45	680.48	751.56	798.83	726.65	632.34	677.25	670.47
	734.66	738.25	729.43	689.81	735.88	694.95	742.12	767.17	803.87	800.58	798.27
totaal	4565.49	4436.39	4017.60	4381.26	4436.75	4621.69	4800.98	4518.71	4176.68	4310.65	4516.42
	4538.08	4305.03	4382.18	3892.01	4119.59	4163.93	4346.59	4434.45	4718.48	4537.81	4473.06

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4200.dat  
 uitvoerfiles:i:\scratch\boschloo\4200ta.uit,i:\scratch\boschloo\4200ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -220.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:0.91  
 amplitude:103.04  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4945.1 + 0.9 t  
 periode: 2 ben(t)= 4945.1 + 0.9 t  
 periode: 3 ben(t)= 4940.8 + 0.9 t +103.0 sin(wt - 0.2)  
 periode: 4 ben(t)= 4941.8 + 0.9 t +103.0 sin(wt - 0.3)  
 periode: 5 ben(t)= 4948.9 + 0.9 t +103.0 sin(wt + 0.1)  
 periode: 6 ben(t)= 4950.3 + 0.9 t +103.0 sin(wt - 0.2)  
 periode: 7 ben(t)= 4942.2 + 0.9 t +103.0 sin(wt + 1.6)  
 periode: 8 ben(t)= 4936.5 + 0.9 t +103.0 sin(wt - 0.3)  
 periode: 9 ben(t)= 4931.7 + 0.9 t +103.0 sin(wt - 0.1)  
 periode: 10 ben(t)= 4944.7 + 0.9 t +103.0 sin(wt + 0.3)  
 periode: 11 ben(t)= 4945.1 + 0.9 t +103.0 sin(wt - 0.2)  
 periode: 12 ben(t)= 4954.2 + 0.9 t +103.0 sin(wt + 0.2)  
 periode: 13 ben(t)= 4930.0 + 0.9 t +103.0 sin(wt - 0.2)  
 periode: 14 ben(t)= 4963.3 + 0.9 t +103.0 sin(wt + 0.0)  
 periode: 15 ben(t)= 4946.9 + 0.9 t +103.0 sin(wt + 0.3)  
 periode: 16 ben(t)= 4931.3 + 0.9 t +103.0 sin(wt - 0.3)  
 periode: 17 ben(t)= 4960.7 + 0.9 t +103.0 sin(wt - 0.1)  
 periode: 18 ben(t)= 4961.1 + 0.9 t +103.0 sin(wt + 0.3)  
 periode: 19 ben(t)= 4941.0 + 0.9 t +103.0 sin(wt + 0.2)  
 periode: 20 ben(t)= 4936.4 + 0.9 t +103.0 sin(wt - 0.2)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	135.34	134.48	143.43	133.28	134.10	132.42	129.95	106.44	109.89	136.00	106.71
	92.65	111.78	113.49	110.05	110.15	111.54	113.43	118.42	119.91	129.30	117.57
3	351.81	353.61	364.30	352.34	356.35	353.69	351.26	329.90	338.62	370.58	308.11
	320.86	349.75	342.27	350.92	356.19	359.05	368.92	370.01	373.81	375.22	368.29
2	650.87	664.78	675.72	663.63	674.60	667.85	668.02	644.27	655.96	688.73	605.62
	617.86	637.82	635.57	646.00	653.20	654.98	648.39	643.22	643.22	651.31	638.79
1	970.58	925.61	965.23	934.82	892.57	909.88	998.68	964.82	938.99	955.09	834.10
	873.96	900.45	950.67	937.78	910.26	889.93	855.17	905.18	880.78	901.03	905.57
-1	2349.71	2147.57	2087.23	1988.06	2090.38	2265.28	2367.50	2327.25	2197.36	2140.67	2071.17
	2416.70	2420.75	2385.21	2193.45	2218.40	1975.56	2137.84	2282.37	2278.00	2106.61	2254.04
-2	716.07	724.23	764.55	733.51	744.13	800.22	824.50	823.00	714.09	710.33	704.26
	788.30	792.00	777.07	743.55	791.50	707.09	799.42	778.63	792.20	681.22	722.35
totaal	5174.39	4950.28	5000.46	4805.63	4892.11	5129.34	5339.91	5195.67	4954.91	5001.40	4629.98
	5110.33	5212.56	5204.28	4981.74	5039.70	4698.17	4923.17	5097.83	5087.91	4844.69	5006.60

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4225.dat
uitvoerfiles:i:\scratch\boschloo\4225ta.uit,i:\scratch\boschloo\4225ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -223.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

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```

trend:1.23
amplitude:103.48
fase/jr opgang:vrij

```

```

periode: 1 ben(t)= 5193.1 + 1.2 t
periode: 2 ben(t)= 5193.1 + 1.2 t
periode: 3 ben(t)= 5188.8 + 1.2 t +103.5 sin(wt - 0.1)
periode: 4 ben(t)= 5191.4 + 1.2 t +103.5 sin(wt - 0.5)
periode: 5 ben(t)= 5200.4 + 1.2 t +103.5 sin(wt - 0.7)
periode: 6 ben(t)= 5196.5 + 1.2 t +103.5 sin(wt + 0.1)
periode: 7 ben(t)= 5189.4 + 1.2 t +103.5 sin(wt + 0.0)
periode: 8 ben(t)= 5184.9 + 1.2 t +103.5 sin(wt - 0.1)
periode: 9 ben(t)= 5179.6 + 1.2 t +103.5 sin(wt - 0.1)
periode: 10 ben(t)= 5196.5 + 1.2 t +103.5 sin(wt + 0.7)
periode: 11 ben(t)= 5193.1 + 1.2 t +103.5 sin(wt + 0.2)
periode: 12 ben(t)= 5200.1 + 1.2 t +103.5 sin(wt - 0.4)
periode: 13 ben(t)= 5177.1 + 1.2 t +103.5 sin(wt + 0.3)
periode: 14 ben(t)= 5213.5 + 1.2 t +103.5 sin(wt - 0.3)
periode: 15 ben(t)= 5200.1 + 1.2 t +103.5 sin(wt + 0.5)
periode: 16 ben(t)= 5176.9 + 1.2 t +103.5 sin(wt - 0.2)
periode: 17 ben(t)= 5213.5 + 1.2 t +103.5 sin(wt - 0.8)
periode: 18 ben(t)= 5209.6 + 1.2 t +103.5 sin(wt + 0.4)
periode: 19 ben(t)= 5200.7 + 1.2 t +103.5 sin(wt + 1.1)
periode: 20 ben(t)= 5183.8 + 1.2 t +103.5 sin(wt + 0.1)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	78.88	80.11	79.46	82.02	81.98	81.06	86.80	87.67	85.66	86.40	101.37
	100.75	95.48	91.81	85.21	92.33	87.63	104.50	113.24	109.45	112.50	115.74
3	400.50	406.31	409.25	411.93	419.46	415.36	423.34	430.01	433.49	435.42	488.21
	508.73	508.27	494.25	497.58	518.96	494.47	508.69	526.24	513.49	508.51	527.96
2	736.66	745.94	747.38	752.99	770.92	766.06	776.23	780.55	792.13	793.60	780.40
	784.14	752.41	755.46	755.51	759.44	766.68	766.07	775.52	753.14	755.39	756.24
1	989.64	1041.41	1052.48	1039.78	1012.56	1025.05	1046.54	1068.52	1069.92	1073.24	1024.40
	999.07	1009.14	1030.51	1043.83	1066.40	1061.04	1033.27	1035.96	977.23	978.05	1025.69
-1	2039.63	2161.36	2148.74	2137.11	2176.20	2234.50	2116.40	2257.00	2081.40	2193.42	2106.85
	2057.75	2276.67	2298.75	2261.40	2259.50	2038.94	2162.05	2217.19	2182.16	2117.75	1995.24
-2	678.00	739.78	767.14	811.94	782.88	788.67	760.70	854.83	781.50	741.84	755.70
	813.25	813.26	798.42	771.97	796.67	751.11	760.45	769.27	754.94	700.66	700.94
totaal	4923.30	5174.89	5204.45	5235.77	5244.01	5310.70	5210.01	5478.58	5244.11	5323.92	5256.93
	5263.69	5455.23	5469.20	5415.49	5493.29	5199.86	5335.04	5437.43	5290.41	5172.86	5121.82

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4250.dat
uitvoerfiles:i:\scratch\boschloo\4250ta.uit,i:\scratch\boschloo\4250ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -130.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:1.55
amplitude:103.92
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3667.9 + 1.5 t
periode: 2  ben(t)= 3667.9 + 1.5 t
periode: 3  ben(t)= 3665.9 + 1.5 t +103.9 sin(wt + 0.6)
periode: 4  ben(t)= 3663.5 + 1.5 t +103.9 sin(wt - 0.1)
periode: 5  ben(t)= 3674.3 + 1.5 t +103.9 sin(wt - 0.4)
periode: 6  ben(t)= 3673.7 + 1.5 t +103.9 sin(wt - 0.3)
periode: 7  ben(t)= 3665.0 + 1.5 t +103.9 sin(wt + 1.6)
periode: 8  ben(t)= 3661.3 + 1.5 t +103.9 sin(wt + 0.3)
periode: 9  ben(t)= 3655.0 + 1.5 t +103.9 sin(wt + 0.1)
periode: 10 ben(t)= 3676.5 + 1.5 t +103.9 sin(wt + 1.6)
periode: 11 ben(t)= 3667.9 + 1.5 t +103.9 sin(wt - 0.1)
periode: 12 ben(t)= 3674.9 + 1.5 t +103.9 sin(wt - 0.4)
periode: 13 ben(t)= 3651.7 + 1.5 t +103.9 sin(wt + 0.1)
periode: 14 ben(t)= 3679.4 + 1.5 t +103.9 sin(wt + 0.5)
periode: 15 ben(t)= 3647.7 + 1.5 t +103.9 sin(wt - 0.9)
periode: 16 ben(t)= 3647.2 + 1.5 t +103.9 sin(wt + 0.2)
periode: 17 ben(t)= 3674.4 + 1.5 t +103.9 sin(wt + 0.4)
periode: 18 ben(t)= 3681.1 + 1.5 t +103.9 sin(wt - 0.0)
periode: 19 ben(t)= 3658.5 + 1.5 t +103.9 sin(wt - 0.3)
periode: 20 ben(t)= 3659.4 + 1.5 t +103.9 sin(wt - 0.3)

```

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	21.59	22.37	22.26	20.76	27.10	27.50	30.20	35.71	34.65	41.88	37.88	42.15	42.36	36.39	37.39	44.67	38.59	55.23	61.40	71.21	75.26	80.97
3	294.70	295.19	295.86	300.83	306.07	308.10	315.45	324.57	323.54	328.05	332.62	342.05	335.31	328.74	330.96	341.35	335.08	350.64	359.12	365.37	367.68	369.34
2	399.03	398.17	399.20	405.78	412.84	419.68	424.70	428.14	431.13	432.96	437.83	445.71	418.90	421.42	425.70	431.68	434.36	435.20	440.41	438.04	433.77	436.89
1	539.63	552.33	546.57	593.49	596.76	606.71	563.29	576.68	586.22	613.64	621.42	579.47	550.44	536.59	612.57	638.58	609.67	600.08	582.51	568.20	552.99	587.88
-1	1546.38	1667.94	1813.75	1877.55	1876.78	1864.43	1572.77	1602.89	1767.17	1710.12	1699.01	1682.82	1529.34	1499.54	1804.83	1944.92	1864.75	1873.74	1751.22	1649.27	1658.83	1772.33
-2	606.00	658.75	657.95	727.77	722.97	738.52	626.57	714.50	716.17	684.24	594.19	709.86	678.49	686.56	668.62	713.42	708.08	687.60	680.36	668.84	604.42	621.83
totaal	3407.33	3594.75	3735.58	3926.19	3942.53	3964.93	3532.98	3682.49	3858.88	3810.88	3722.95	3802.06	3554.85	3509.23	3880.07	4114.63	3990.53	4002.48	3875.03	3760.93	3692.95	3869.25

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4275.dat  
 uitvoerfiles:i:\scratch\boschloo\4275ta.uit,i:\scratch\boschloo\4275ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -228.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:1.87  
 amplitude:104.36  
 fase/jr opgang:vrij

periode: 1 ben(t)= 5149.8 + 1.9 t  
 periode: 2 ben(t)= 5149.8 + 1.9 t  
 periode: 3 ben(t)= 5145.8 + 1.9 t +104.4 sin(wt + 0.1)  
 periode: 4 ben(t)= 5143.1 + 1.9 t +104.4 sin(wt + 0.8)  
 periode: 5 ben(t)= 5157.0 + 1.9 t +104.4 sin(wt - 0.6)  
 periode: 6 ben(t)= 5154.4 + 1.9 t +104.4 sin(wt - 0.1)  
 periode: 7 ben(t)= 5146.8 + 1.9 t +104.4 sin(wt + 1.6)  
 periode: 8 ben(t)= 5148.1 + 1.9 t +104.4 sin(wt + 1.0)  
 periode: 9 ben(t)= 5152.1 + 1.9 t +104.4 sin(wt + 1.6)  
 periode: 10 ben(t)= 5158.3 + 1.9 t +104.4 sin(wt + 1.6)  
 periode: 11 ben(t)= 5149.8 + 1.9 t +104.4 sin(wt + 1.6)  
 periode: 12 ben(t)= 5157.8 + 1.9 t +104.4 sin(wt + 0.8)  
 periode: 13 ben(t)= 5140.7 + 1.9 t +104.4 sin(wt - 0.9)  
 periode: 14 ben(t)= 5147.9 + 1.9 t +104.4 sin(wt + 1.2)  
 periode: 15 ben(t)= 5135.4 + 1.9 t +104.4 sin(wt - 0.5)  
 periode: 16 ben(t)= 5139.9 + 1.9 t +104.4 sin(wt - 0.5)  
 periode: 17 ben(t)= 5155.1 + 1.9 t +104.4 sin(wt + 0.5)  
 periode: 18 ben(t)= 5167.3 + 1.9 t +104.4 sin(wt + 0.6)  
 periode: 19 ben(t)= 5141.1 + 1.9 t +104.4 sin(wt - 0.2)  
 periode: 20 ben(t)= 5145.0 + 1.9 t +104.4 sin(wt - 0.9)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	12.52	29.94	14.31	19.84	28.13	33.58	50.24	68.65	79.27	77.95	85.13	83.57	73.82	85.89	109.59	110.11	111.73	129.56	84.49	127.85	133.65	118.29
3	456.31	473.24	458.49	460.64	463.69	467.24	478.15	483.03	484.73	479.88	489.49	485.96	476.02	479.39	501.79	495.26	474.21	469.70	405.78	457.90	444.16	435.49
2	715.24	705.54	695.65	694.70	704.30	708.99	713.76	720.91	726.92	731.11	735.09	750.51	699.32	702.71	708.82	709.55	714.15	711.88	635.51	683.17	651.06	649.41
1	1055.74	1019.81	1016.61	1062.76	1079.60	1079.39	1060.16	1113.90	1068.24	1097.20	1102.56	1096.42	985.67	1015.39	1086.73	1062.93	1067.28	1082.83	983.76	1034.43	1066.59	1037.65
-1	2123.80	2105.22	1998.21	2320.14	2511.27	2061.80	2199.00	2205.48	2292.05	2332.92	2273.79	2104.00	1992.33	1968.01	2215.82	2291.50	2334.20	2387.83	2244.88	2308.24	2414.61	2162.92
-2	741.70	732.78	722.88	792.72	850.20	771.43	785.08	762.35	808.00	771.86	703.83	723.34	658.28	763.17	709.10	828.55	847.97	765.10	749.03	770.09	806.92	711.41
totaal	5105.31	5066.54	4906.16	5350.81	5637.19	5122.44	5286.39	5354.32	5459.21	5490.93	5389.90	5243.80	4885.45	5014.54	5331.84	5497.89	5549.54	5546.91	5103.45	5381.69	5516.98	5115.17

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4300.dat  
 uitvoerfiles:i:\scratch\boschloo\4300ta.uit,i:\scratch\boschloo\4300ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amp1ta.prn

landgrens: -188.00  
 zeegrens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:2.19  
 amplitude:104.81  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4864.5 + 2.2 t  
 periode: 2 ben(t)= 4864.5 + 2.2 t  
 periode: 3 ben(t)= 4859.7 + 2.2 t +104.8 sin(wt - 0.4)  
 periode: 4 ben(t)= 4859.7 + 2.2 t +104.8 sin(wt - 0.0)  
 periode: 5 ben(t)= 4870.0 + 2.2 t +104.8 sin(wt - 0.2)  
 periode: 6 ben(t)= 4872.4 + 2.2 t +104.8 sin(wt - 0.8)  
 periode: 7 ben(t)= 4863.2 + 2.2 t +104.8 sin(wt - 0.6)  
 periode: 8 ben(t)= 4857.7 + 2.2 t +104.8 sin(wt + 0.3)  
 periode: 9 ben(t)= 4866.9 + 2.2 t +104.8 sin(wt + 1.6)  
 periode: 10 ben(t)= 4865.6 + 2.2 t +104.8 sin(wt + 0.4)  
 periode: 11 ben(t)= 4864.5 + 2.2 t +104.8 sin(wt + 1.6)  
 periode: 12 ben(t)= 4866.9 + 2.2 t +104.8 sin(wt + 1.6)  
 periode: 13 ben(t)= 4862.5 + 2.2 t +104.8 sin(wt + 1.6)  
 periode: 14 ben(t)= 4855.4 + 2.2 t +104.8 sin(wt + 1.6)  
 periode: 15 ben(t)= 4845.9 + 2.2 t +104.8 sin(wt - 0.7)  
 periode: 16 ben(t)= 4851.9 + 2.2 t +104.8 sin(wt + 1.6)  
 periode: 17 ben(t)= 4849.2 + 2.2 t +104.8 sin(wt + 1.6)  
 periode: 18 ben(t)= 4875.8 + 2.2 t +104.8 sin(wt + 1.6)  
 periode: 19 ben(t)= 4876.6 + 2.2 t +104.8 sin(wt + 1.6)  
 periode: 20 ben(t)= 4863.0 + 2.2 t +104.8 sin(wt + 1.6)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	70.31	71.44	73.88	75.11	73.65	75.97	73.91	73.17	73.52	79.65	69.94
	70.31	75.02	63.82	63.34	75.32	69.64	67.65	72.17	61.69	74.46	89.49
3	503.48	510.56	514.82	523.48	520.80	523.88	523.56	527.88	532.68	544.36	533.12
	544.00	542.71	536.59	530.95	534.16	536.68	524.56	531.14	514.74	525.16	534.36
2	690.50	700.22	702.89	705.10	707.08	708.34	712.64	718.08	721.58	726.86	725.92
	729.10	683.45	681.68	675.22	675.82	688.16	659.89	662.50	664.43	674.92	684.09
1	970.81	951.18	953.06	942.94	976.95	959.24	975.10	1003.59	976.28	976.19	1002.29
	973.24	925.88	924.63	898.65	887.69	887.93	877.91	942.62	965.71	990.65	991.13
-1	1980.00	2022.91	1996.13	1924.07	2126.64	2029.50	2081.72	2112.51	2112.79	2241.75	2108.69
	1987.75	1981.65	1866.22	1734.49	1871.88	1971.60	2320.86	2256.68	2271.13	1925.40	2158.83
-2	709.75	706.96	742.40	697.32	799.80	808.08	766.11	743.78	802.21	785.50	652.84
	675.25	644.35	681.21	611.58	734.00	756.00	760.89	780.74	784.71	685.60	732.97
totaal	4924.85	4963.28	4983.17	4868.02	5204.93	5105.01	5133.03	5179.01	5219.06	5354.30	5092.79
	4979.65	4853.07	4754.15	4514.23	4778.87	4910.00	5211.75	5245.84	5262.41	4876.19	5190.87





source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4350.dat  
 uitvoerfiles:i:\scratch\boschloo\4350ta.uit,i:\scratch\boschloo\4350ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -140.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:2.83  
 amplitude:105.69  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4412.8 + 2.8 t  
 periode: 2 ben(t)= 4412.8 + 2.8 t  
 periode: 3 ben(t)= 4408.0 + 2.8 t +105.7 sin(wt - 0.4)  
 periode: 4 ben(t)= 4408.0 + 2.8 t +105.7 sin(wt + 0.0)  
 periode: 5 ben(t)= 4416.6 + 2.8 t +105.7 sin(wt + 0.1)  
 periode: 6 ben(t)= 4415.2 + 2.8 t +105.7 sin(wt + 0.2)  
 periode: 7 ben(t)= 4408.9 + 2.8 t +105.7 sin(wt + 0.1)  
 periode: 8 ben(t)= 4405.2 + 2.8 t +105.7 sin(wt + 0.1)  
 periode: 9 ben(t)= 4400.1 + 2.8 t +105.7 sin(wt + 0.2)  
 periode: 10 ben(t)= 4403.8 + 2.8 t +105.7 sin(wt - 1.1)  
 periode: 11 ben(t)= 4412.8 + 2.8 t +105.7 sin(wt - 0.1)  
 periode: 12 ben(t)= 4421.7 + 2.8 t +105.7 sin(wt + 0.6)  
 periode: 13 ben(t)= 4397.5 + 2.8 t +105.7 sin(wt - 0.3)  
 periode: 14 ben(t)= 4433.8 + 2.8 t +105.7 sin(wt - 0.5)  
 periode: 15 ben(t)= 4434.8 + 2.8 t +105.7 sin(wt + 1.5)  
 periode: 16 ben(t)= 4401.6 + 2.8 t +105.7 sin(wt - 0.5)  
 periode: 17 ben(t)= 4433.1 + 2.8 t +105.7 sin(wt - 0.6)  
 periode: 18 ben(t)= 4429.5 + 2.8 t +105.7 sin(wt + 0.3)  
 periode: 19 ben(t)= 4413.3 + 2.8 t +105.7 sin(wt + 0.5)  
 periode: 20 ben(t)= 4403.4 + 2.8 t +105.7 sin(wt + 0.0)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
4	127.47	134.50	143.69	157.21	163.78	164.54	162.47	165.79	158.84	160.39	161.96	184.94	171.41	164.54	157.13	171.01	170.75	169.51	174.34	165.60	167.78	171.33
3	490.76	492.54	497.70	500.95	505.15	508.31	511.56	516.67	523.44	525.95	536.03	539.31	532.22	530.28	529.57	538.00	534.95	537.24	527.72	521.23	517.93	517.54
2	572.47	583.66	588.39	594.26	600.35	605.90	606.51	609.86	615.52	617.76	603.90	615.64	609.35	617.54	614.18	620.60	619.51	618.81	589.44	575.87	571.65	573.40
1	851.87	807.72	797.01	798.31	757.75	749.61	746.69	784.85	772.68	764.36	712.10	814.74	823.93	787.14	795.65	792.21	780.89	693.71	700.00	684.28	662.58	742.85
-1	2104.30	2045.63	1812.84	1903.54	1745.95	1719.75	1902.16	1874.05	1862.53	2003.50	2030.01	1968.32	1895.23	1742.73	1893.17	1807.50	1727.20	1601.69	1907.35	1851.73	1945.18	1919.44
-2	689.20	705.75	719.57	677.00	713.55	715.25	686.71	709.90	715.47	790.83	688.21	714.35	687.80	659.93	597.33	690.64	629.68	708.05	714.00	806.31	725.03	659.29
totaal	4836.08	4769.80	4559.20	4631.28	4486.52	4463.35	4616.10	4661.13	4648.48	4862.80	4732.23	4837.30	4719.95	4502.17	4587.03	4619.97	4462.98	4328.99	4612.85	4605.03	4590.16	4583.84

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4375.dat
uitvoerfiles:i:\scratch\boschloo\4375ta.uit,i:\scratch\boschloo\4375ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -147.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:3.15
amplitude:106.13
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4465.0 + 3.1 t
periode: 2  ben(t)= 4465.0 + 3.1 t
periode: 3  ben(t)= 4460.7 + 3.1 t +106.1 sin(wt - 0.1)
periode: 4  ben(t)= 4458.9 + 3.1 t +106.1 sin(wt + 0.3)
periode: 5  ben(t)= 4464.2 + 3.1 t +106.1 sin(wt + 0.7)
periode: 6  ben(t)= 4468.3 + 3.1 t +106.1 sin(wt + 0.1)
periode: 7  ben(t)= 4465.0 + 3.1 t +106.1 sin(wt - 0.9)
periode: 8  ben(t)= 4457.1 + 3.1 t +106.1 sin(wt + 0.1)
periode: 9  ben(t)= 4451.8 + 3.1 t +106.1 sin(wt - 0.5)
periode: 10 ben(t)= 4456.3 + 3.1 t +106.1 sin(wt - 1.0)
periode: 11 ben(t)= 4465.0 + 3.1 t +106.1 sin(wt + 1.6)
periode: 12 ben(t)= 4470.0 + 3.1 t +106.1 sin(wt - 0.8)
periode: 13 ben(t)= 4452.2 + 3.1 t +106.1 sin(wt + 0.8)
periode: 14 ben(t)= 4455.9 + 3.1 t +106.1 sin(wt + 1.6)
periode: 15 ben(t)= 4483.2 + 3.1 t +106.1 sin(wt + 1.1)
periode: 16 ben(t)= 4444.0 + 3.1 t +106.1 sin(wt + 0.2)
periode: 17 ben(t)= 4485.3 + 3.1 t +106.1 sin(wt - 1.1)
periode: 18 ben(t)= 4476.5 + 3.1 t +106.1 sin(wt - 0.2)
periode: 19 ben(t)= 4469.8 + 3.1 t +106.1 sin(wt + 0.8)
periode: 20 ben(t)= 4456.8 + 3.1 t +106.1 sin(wt + 0.7)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	122.85	127.48	137.80	148.75	152.80	153.48	155.67	153.99	157.15	142.44	149.35
	155.83	156.84	154.15	156.35	165.16	167.48	159.04	163.41	155.05	167.51	164.87
3	403.33	409.01	412.96	421.84	423.91	428.00	430.88	436.50	441.04	435.19	443.26
	445.41	446.72	446.26	452.88	460.45	465.48	472.05	474.35	447.63	448.20	449.62
2	550.23	572.52	582.22	591.01	596.38	600.31	602.95	605.16	600.45	603.96	610.80
	609.49	596.42	600.57	601.97	614.63	617.65	609.86	597.84	559.45	561.48	561.52
1	882.67	869.85	892.80	901.10	880.55	836.02	831.30	845.67	840.58	822.01	817.22
	864.01	882.56	850.80	872.15	880.78	882.30	831.40	753.30	742.46	781.74	810.46
-1	2145.31	2170.30	2115.89	1995.04	2028.50	1857.54	1917.70	1797.21	1945.77	1965.12	2120.84
	2102.37	2040.92	1884.42	1889.05	1966.85	1983.94	1723.72	1643.69	1759.67	1906.12	1942.79
-2	721.48	745.53	794.46	719.16	724.29	689.80	696.13	688.81	729.57	837.26	718.45
	730.50	658.43	687.55	668.02	743.42	707.22	655.65	722.45	729.33	704.71	734.50
totaal	4825.87	4894.69	4936.13	4776.90	4806.44	4565.14	4634.64	4527.34	4714.55	4805.97	4859.93
	4907.62	4781.89	4623.75	4640.41	4831.28	4824.08	4451.72	4355.03	4393.60	4569.77	4663.76

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4400.dat
uitvoerfiles:i:\scratch\boschloo\4400ta.uit,i:\scratch\boschloo\4400ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -117.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:3.47
amplitude:106.57
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4186.0 + 3.5 t
periode: 2  ben(t)= 4186.0 + 3.5 t
periode: 3  ben(t)= 4182.5 + 3.5 t +106.6 sin(wt + 0.2)
periode: 4  ben(t)= 4183.2 + 3.5 t +106.6 sin(wt - 0.4)
periode: 5  ben(t)= 4188.4 + 3.5 t +106.6 sin(wt + 0.3)
periode: 6  ben(t)= 4194.0 + 3.5 t +106.6 sin(wt - 0.7)
periode: 7  ben(t)= 4184.8 + 3.5 t +106.6 sin(wt - 0.6)
periode: 8  ben(t)= 4189.4 + 3.5 t +106.6 sin(wt + 1.6)
periode: 9  ben(t)= 4188.4 + 3.5 t +106.6 sin(wt + 1.6)
periode: 10 ben(t)= 4177.3 + 3.5 t +106.6 sin(wt - 0.9)
periode: 11 ben(t)= 4186.0 + 3.5 t +106.6 sin(wt + 1.6)
periode: 12 ben(t)= 4188.4 + 3.5 t +106.6 sin(wt + 1.6)
periode: 13 ben(t)= 4182.3 + 3.5 t +106.6 sin(wt + 1.5)
periode: 14 ben(t)= 4196.9 + 3.5 t +106.6 sin(wt - 1.5)
periode: 15 ben(t)= 4197.1 + 3.5 t +106.6 sin(wt + 0.7)
periode: 16 ben(t)= 4164.0 + 3.5 t +106.6 sin(wt + 0.3)
periode: 17 ben(t)= 4206.8 + 3.5 t +106.6 sin(wt - 1.0)
periode: 18 ben(t)= 4197.8 + 3.5 t +106.6 sin(wt - 0.2)
periode: 19 ben(t)= 4191.0 + 3.5 t +106.6 sin(wt + 0.9)
periode: 20 ben(t)= 4177.2 + 3.5 t +106.6 sin(wt + 0.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	99.29	101.24	107.07	106.61	119.98	118.59	117.41	118.23	119.84	122.34	120.35
	117.03	142.51	121.00	127.49	133.42	130.29	138.76	153.77	154.33	158.79	158.45
3	415.79	421.23	425.33	431.05	436.74	440.34	445.28	448.59	454.79	455.42	455.98
	450.94	466.26	458.31	454.10	460.76	459.75	466.28	475.38	467.45	457.98	455.02
2	543.51	556.10	556.91	566.57	581.17	585.92	593.70	593.99	589.82	587.88	569.61
	569.98	563.23	566.13	570.02	580.30	580.48	583.26	582.40	556.05	543.86	544.30
1	721.30	745.81	751.52	798.06	802.50	761.01	764.79	743.08	720.28	681.30	701.70
	758.25	768.60	756.04	748.22	740.43	734.41	715.57	693.81	685.23	687.48	693.23
-1	1831.21	1915.50	2114.80	1975.12	1955.10	1838.37	1806.20	1698.99	1716.93	1721.51	2075.60
	2033.17	2039.34	1989.07	1804.13	1820.17	1819.17	1935.25	1736.96	1699.03	1777.07	1851.66
-2	690.52	725.08	759.38	749.04	711.83	708.27	636.64	632.91	647.38	729.04	766.80
	753.17	729.61	722.18	676.32	675.37	617.85	691.58	637.82	625.30	620.35	688.10
totaal	4301.62	4464.97	4715.01	4626.45	4607.32	4452.49	4364.01	4235.78	4249.04	4297.49	4690.04
	4682.53	4709.54	4612.72	4380.28	4410.44	4341.94	4530.71	4280.14	4187.40	4245.54	4390.76

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4425.dat  
 uitvoerfiles:i:\scratch\boschloo\4425ta.uit,i:\scratch\boschloo\4425ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -185.00  
 zeegrens: 810.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:3.79  
 amplitude:107.01  
 fase/jr opgang:vrij

periode: 1 ben(t)= 4717.2 + 3.8 t  
 periode: 2 ben(t)= 4717.2 + 3.8 t  
 periode: 3 ben(t)= 4712.3 + 3.8 t +107.0 sin(wt - 0.6)  
 periode: 4 ben(t)= 4712.3 + 3.8 t +107.0 sin(wt + 1.6)  
 periode: 5 ben(t)= 4724.8 + 3.8 t +107.0 sin(wt - 0.7)  
 periode: 6 ben(t)= 4723.9 + 3.8 t +107.0 sin(wt - 0.4)  
 periode: 7 ben(t)= 4714.4 + 3.8 t +107.0 sin(wt - 0.3)  
 periode: 8 ben(t)= 4708.6 + 3.8 t +107.0 sin(wt - 0.7)  
 periode: 9 ben(t)= 4712.3 + 3.8 t +107.0 sin(wt - 1.4)  
 periode: 10 ben(t)= 4720.1 + 3.8 t +107.0 sin(wt + 0.6)  
 periode: 11 ben(t)= 4717.2 + 3.8 t +107.0 sin(wt + 1.6)  
 periode: 12 ben(t)= 4719.6 + 3.8 t +107.0 sin(wt + 1.6)  
 periode: 13 ben(t)= 4715.2 + 3.8 t +107.0 sin(wt + 1.6)  
 periode: 14 ben(t)= 4708.0 + 3.8 t +107.0 sin(wt + 1.6)  
 periode: 15 ben(t)= 4718.1 + 3.8 t +107.0 sin(wt + 0.2)  
 periode: 16 ben(t)= 4696.4 + 3.8 t +107.0 sin(wt + 1.0)  
 periode: 17 ben(t)= 4701.6 + 3.8 t +107.0 sin(wt + 1.6)  
 periode: 18 ben(t)= 4721.9 + 3.8 t +107.0 sin(wt - 0.6)  
 periode: 19 ben(t)= 4729.6 + 3.8 t +107.0 sin(wt + 1.6)  
 periode: 20 ben(t)= 4715.7 + 3.8 t +107.0 sin(wt + 1.6)

laag	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85		
4	99.50	105.69	105.40	109.84	117.19	116.26	123.24	130.15	138.04	146.51	154.62													
3	162.65	161.77	167.72	168.25	178.70	181.50	204.42	225.16	219.83	139.89	147.85	401.87	397.23	388.23	388.69	390.12	393.54	395.81	399.48	407.31	406.03	422.50		
2	409.17	409.30	413.35	412.52	415.27	414.33	422.34	430.86	420.15	335.38	343.11	609.11	573.60	558.92	566.83	594.22	605.20	610.44	616.96	620.12	613.42	598.25		
1	579.63	572.99	582.69	589.02	604.45	608.48	613.87	615.73	597.01	500.06	516.77	931.56	926.10	891.46	979.86	1012.44	988.21	955.81	995.72	930.03	905.70	921.00		
-1	956.10	971.73	984.94	1002.11	985.87	959.08	963.82	994.22	920.89	818.08	866.67	1875.26	2178.81	2371.22	2239.67	2316.08	2112.07	2160.63	2077.12	1966.45	1992.29	2093.29		
-2	2072.76	2329.73	2322.54	2280.79	2223.79	2116.77	2042.04	2087.38	2129.83	2005.12	2144.18	730.66	792.30	817.85	833.91	775.75	811.83	782.20	690.38	684.48	760.46	838.55		
	779.74	812.77	810.83	797.49	800.71	755.67	723.53	759.87	716.21	689.46	754.57													
totaal	4647.95	4973.73	5133.09	5118.81	5205.80	5027.11	5028.13	4909.81	4746.43	4824.40	5028.21	4960.05	5258.29	5282.08	5250.18	5208.78	5035.84	4970.02	5113.23	5003.92	4487.99	4773.15		

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4450.dat
uitvoerfiles:i:\scratch\boschloo\4450ta.uit,i:\scratch\boschloo\4450ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -121.00
zeegrens: 810.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:4.11
amplitude:107.45
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3830.1 + 4.1 t
periode: 2  ben(t)= 3830.1 + 4.1 t
periode: 3  ben(t)= 3825.2 + 4.1 t +107.5 sin(wt - 0.4)
periode: 4  ben(t)= 3824.2 + 4.1 t +107.5 sin(wt + 0.2)
periode: 5  ben(t)= 3837.5 + 4.1 t +107.5 sin(wt - 0.6)
periode: 6  ben(t)= 3838.5 + 4.1 t +107.5 sin(wt - 1.2)
periode: 7  ben(t)= 3826.5 + 4.1 t +107.5 sin(wt - 0.1)
periode: 8  ben(t)= 3821.0 + 4.1 t +107.5 sin(wt - 0.4)
periode: 9  ben(t)= 3816.0 + 4.1 t +107.5 sin(wt - 0.2)
periode: 10 ben(t)= 3836.0 + 4.1 t +107.5 sin(wt + 1.0)
periode: 11 ben(t)= 3830.1 + 4.1 t +107.5 sin(wt + 0.1)
periode: 12 ben(t)= 3836.6 + 4.1 t +107.5 sin(wt - 0.5)
periode: 13 ben(t)= 3813.6 + 4.1 t +107.5 sin(wt + 0.3)
periode: 14 ben(t)= 3849.1 + 4.1 t +107.5 sin(wt + 0.0)
periode: 15 ben(t)= 3821.0 + 4.1 t +107.5 sin(wt - 0.2)
periode: 16 ben(t)= 3808.7 + 4.1 t +107.5 sin(wt + 0.2)
periode: 17 ben(t)= 3847.6 + 4.1 t +107.5 sin(wt - 0.2)
periode: 18 ben(t)= 3843.5 + 4.1 t +107.5 sin(wt - 0.0)
periode: 19 ben(t)= 3828.7 + 4.1 t +107.5 sin(wt + 0.4)
periode: 20 ben(t)= 3820.4 + 4.1 t +107.5 sin(wt + 0.2)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	89.17	87.71	65.87	69.12	74.83	75.37	76.63	83.16	89.79	94.24	134.19
	104.96	108.14	110.49	122.96	126.07	140.02	171.59	157.20	184.95	158.50	154.12
3	308.71	308.41	321.12	323.23	325.53	327.08	325.95	328.26	331.83	332.19	345.70
	332.14	330.80	329.08	329.78	329.07	326.81	336.12	314.19	345.65	304.63	299.51
2	471.00	474.76	459.71	462.35	469.86	478.30	482.73	487.95	492.96	492.40	473.77
	464.84	461.53	462.78	472.02	480.49	485.04	487.75	460.67	479.96	433.28	434.87
1	685.76	658.87	615.11	673.28	703.87	736.03	692.65	757.64	687.56	684.13	704.31
	645.98	676.80	732.38	721.26	676.12	709.29	699.64	657.71	674.57	642.70	655.84
-1	1696.93	1753.97	1697.54	1883.07	2076.85	1892.89	1825.42	1815.27	1759.80	1794.29	1680.88
	1835.14	1941.50	1975.98	1720.39	1878.13	1821.36	1951.21	1939.42	1870.58	1755.40	1739.33
-2	631.01	715.47	710.46	757.51	722.73	716.01	682.42	677.60	654.15	690.33	672.52
	773.19	756.00	721.12	702.74	735.38	699.85	754.67	744.91	683.92	679.93	711.67
totaal	3882.58	3999.18	3869.81	4168.56	4373.67	4225.69	4085.79	4149.88	4016.08	4087.57	4011.37
	4156.25	4274.77	4331.84	4069.16	4225.26	4182.35	4400.98	4274.10	4239.63	3974.44	3995.34

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4475.dat
uitvoerfiles:i:\scratch\boschloo\4475ta.uit,i:\scratch\boschloo\4475ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -125.00
zeegrens: 810.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:4.43
amplitude:107.90
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 3893.9 + 4.4 t
periode: 2  ben(t)= 3893.9 + 4.4 t
periode: 3  ben(t)= 3890.8 + 4.4 t +107.9 sin(wt + 0.4)
periode: 4  ben(t)= 3887.6 + 4.4 t +107.9 sin(wt + 0.4)
periode: 5  ben(t)= 3901.4 + 4.4 t +107.9 sin(wt - 0.6)
periode: 6  ben(t)= 3896.6 + 4.4 t +107.9 sin(wt + 0.2)
periode: 7  ben(t)= 3889.3 + 4.4 t +107.9 sin(wt + 0.3)
periode: 8  ben(t)= 3887.2 + 4.4 t +107.9 sin(wt + 0.3)
periode: 9  ben(t)= 3884.2 + 4.4 t +107.9 sin(wt + 0.6)
periode: 10 ben(t)= 3902.8 + 4.4 t +107.9 sin(wt + 1.6)
periode: 11 ben(t)= 3893.9 + 4.4 t +107.9 sin(wt + 1.6)
periode: 12 ben(t)= 3900.9 + 4.4 t +107.9 sin(wt + 1.0)
periode: 13 ben(t)= 3891.9 + 4.4 t +107.9 sin(wt + 1.6)
periode: 14 ben(t)= 3884.6 + 4.4 t +107.9 sin(wt + 1.6)
periode: 15 ben(t)= 3916.9 + 4.4 t +107.9 sin(wt + 1.6)
periode: 16 ben(t)= 3885.1 + 4.4 t +107.9 sin(wt - 0.6)
periode: 17 ben(t)= 3878.2 + 4.4 t +107.9 sin(wt + 1.6)
periode: 18 ben(t)= 3912.1 + 4.4 t +107.9 sin(wt + 0.7)
periode: 19 ben(t)= 3880.5 + 4.4 t +107.9 sin(wt - 1.4)
periode: 20 ben(t)= 3892.4 + 4.4 t +107.9 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.01
	0.10	0.79	0.00	0.66	0.00	2.80	3.07	6.66	7.02	12.13	12.75
3	367.81	370.38	367.45	370.48	378.52	376.72	380.46	384.39	389.31	403.48	385.12
	389.64	384.95	375.02	377.80	345.03	382.07	386.26	389.10	374.03	380.47	394.06
2	543.74	546.77	526.28	529.29	532.28	533.01	530.96	532.33	533.40	539.28	533.48
	532.43	510.72	513.14	513.28	523.90	515.86	527.01	529.03	527.37	534.84	539.88
1	727.08	666.80	672.65	682.02	689.89	730.12	745.78	796.93	775.95	768.98	653.16
	678.31	697.29	687.61	711.56	679.43	748.84	688.26	734.34	738.00	755.91	742.16
-1	1742.67	1710.20	1943.57	1775.91	1956.90	1961.42	1895.17	2028.62	2005.13	1917.42	1620.03
	1570.38	1982.73	1707.93	1962.67	1883.49	1892.58	2014.98	2021.63	1932.00	1900.50	1903.81
-2	653.83	642.84	689.61	696.72	811.42	787.08	741.92	727.32	703.80	707.75	623.70
	685.67	732.06	656.67	742.00	752.30	724.17	772.88	734.20	736.33	721.00	732.74
totaal	4035.13	3936.98	4199.56	4054.41	4369.00	4388.35	4294.28	4469.58	4407.60	4337.35	3815.51
	3856.53	4308.53	3940.38	4307.96	4184.15	4266.33	4392.47	4414.96	4314.76	4304.85	4325.41

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4500.dat
uitvoerfiles:i:\scratch\boschloo\4500ta.uit,i:\scratch\boschloo\4500ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -145.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:4.75
amplitude:108.34
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4352.4 + 4.7 t
periode: 2  ben(t)= 4352.4 + 4.7 t
periode: 3  ben(t)= 4348.0 + 4.7 t +108.3 sin(wt - 0.0)
periode: 4  ben(t)= 4346.3 + 4.7 t +108.3 sin(wt + 0.3)
periode: 5  ben(t)= 4358.6 + 4.7 t +108.3 sin(wt - 0.3)
periode: 6  ben(t)= 4358.1 + 4.7 t +108.3 sin(wt - 0.2)
periode: 7  ben(t)= 4347.9 + 4.7 t +108.3 sin(wt + 0.2)
periode: 8  ben(t)= 4346.9 + 4.7 t +108.3 sin(wt + 0.5)
periode: 9  ben(t)= 4344.8 + 4.7 t +108.3 sin(wt + 0.8)
periode: 10 ben(t)= 4354.4 + 4.7 t +108.3 sin(wt + 0.5)
periode: 11 ben(t)= 4352.4 + 4.7 t +108.3 sin(wt + 1.6)
periode: 12 ben(t)= 4354.8 + 4.7 t +108.3 sin(wt + 1.6)
periode: 13 ben(t)= 4350.3 + 4.7 t +108.3 sin(wt + 1.6)
periode: 14 ben(t)= 4364.0 + 4.7 t +108.3 sin(wt + 0.6)
periode: 15 ben(t)= 4359.0 + 4.7 t +108.3 sin(wt + 0.5)
periode: 16 ben(t)= 4339.4 + 4.7 t +108.3 sin(wt + 1.6)
periode: 17 ben(t)= 4365.7 + 4.7 t +108.3 sin(wt + 0.1)
periode: 18 ben(t)= 4364.1 + 4.7 t +108.3 sin(wt + 1.6)
periode: 19 ben(t)= 4347.4 + 4.7 t +108.3 sin(wt + 0.1)
periode: 20 ben(t)= 4352.2 + 4.7 t +108.3 sin(wt - 1.4)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	110.46	109.65	105.70	105.97	114.79	112.23	110.28	117.25	124.16	122.05	131.00
	132.62	134.66	137.75	142.25	142.25	153.94	161.25	182.43	173.92	179.15	173.52
3	390.51	395.64	398.05	396.31	398.48	398.80	399.62	401.19	405.23	408.53	412.58
	413.59	410.30	408.42	406.30	406.30	413.73	409.34	409.57	408.76	418.36	416.10
2	602.90	606.29	606.31	587.10	584.87	577.16	579.28	583.80	587.28	591.09	591.91
	598.64	569.27	569.98	579.24	579.24	586.56	585.44	587.35	591.17	592.50	595.94
1	902.21	864.52	849.69	791.77	820.81	816.87	876.72	883.68	895.75	902.13	867.86
	860.89	824.64	826.78	900.10	858.16	864.59	854.27	802.16	869.17	868.04	901.01
-1	1976.78	1810.82	1835.03	1767.58	2005.33	2070.17	1992.75	2045.99	2129.27	2169.94	2033.75
	1924.51	2091.13	2016.93	1974.90	1921.83	1982.24	2013.73	1978.01	2057.96	1904.58	2061.06
-2	652.97	625.65	653.20	629.36	780.02	761.40	792.95	700.80	743.33	818.34	661.13
	705.77	697.75	683.67	750.87	777.67	749.86	768.17	779.37	794.61	735.67	768.81
totaal	4635.83	4412.58	4447.98	4278.09	4704.30	4736.65	4751.60	4732.71	4885.03	5012.08	4698.23
	4636.03	4727.75	4643.53	4753.65	4685.45	4750.93	4792.20	4738.89	4895.59	4698.30	4916.43





```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4550.dat
uitvoerfiles:i:\scratch\boschloo\4550ta.uit,i:\scratch\boschloo\4550ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -150.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:5.39
amplitude:109.22
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4290.5 + 5.4 t
periode: 2  ben(t)= 4290.5 + 5.4 t
periode: 3  ben(t)= 4286.0 + 5.4 t +109.2 sin(wt - 0.1)
periode: 4  ben(t)= 4283.9 + 5.4 t +109.2 sin(wt + 0.4)
periode: 5  ben(t)= 4291.1 + 5.4 t +109.2 sin(wt + 0.6)
periode: 6  ben(t)= 4299.1 + 5.4 t +109.2 sin(wt - 0.9)
periode: 7  ben(t)= 4288.2 + 5.4 t +109.2 sin(wt - 0.4)
periode: 8  ben(t)= 4285.5 + 5.4 t +109.2 sin(wt + 0.6)
periode: 9  ben(t)= 4279.3 + 5.4 t +109.2 sin(wt + 0.5)
periode: 10 ben(t)= 4286.9 + 5.4 t +109.2 sin(wt - 0.1)
periode: 11 ben(t)= 4290.5 + 5.4 t +109.2 sin(wt + 0.0)
periode: 12 ben(t)= 4299.3 + 5.4 t +109.2 sin(wt - 0.1)
periode: 13 ben(t)= 4273.8 + 5.4 t +109.2 sin(wt + 0.3)
periode: 14 ben(t)= 4312.2 + 5.4 t +109.2 sin(wt - 0.5)
periode: 15 ben(t)= 4290.6 + 5.4 t +109.2 sin(wt + 0.2)
periode: 16 ben(t)= 4267.2 + 5.4 t +109.2 sin(wt + 0.4)
periode: 17 ben(t)= 4310.2 + 5.4 t +109.2 sin(wt - 0.4)
periode: 18 ben(t)= 4296.0 + 5.4 t +109.2 sin(wt - 0.6)
periode: 19 ben(t)= 4287.4 + 5.4 t +109.2 sin(wt + 0.3)
periode: 20 ben(t)= 4283.6 + 5.4 t +109.2 sin(wt + 0.9)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	142.89	86.23	83.89	99.56	110.91	111.07	111.85	113.27	114.22	115.11	112.50
	105.66	92.75	101.63	96.22	111.01	106.34	93.83	106.89	95.20	104.53	107.99
3	534.15	456.45	460.87	488.24	502.12	496.73	497.32	501.31	502.19	498.32	500.30
	489.42	480.02	489.77	483.43	496.08	491.14	488.73	495.37	507.32	491.57	491.37
2	612.23	551.81	560.70	576.07	583.77	584.27	584.79	596.50	605.71	611.29	616.42
	603.80	594.89	600.06	605.92	622.07	616.88	608.88	597.18	585.13	549.38	548.03
1	866.98	802.27	798.01	805.58	809.21	775.69	765.49	801.09	781.07	772.43	783.52
	788.20	760.52	825.97	782.41	817.59	823.55	791.81	776.67	694.19	644.22	734.52
-1	2203.95	2048.18	2004.88	2048.96	1993.10	1966.11	2023.05	1829.68	1954.02	1992.45	2047.14
	2154.83	1993.08	2001.66	1939.42	1996.50	2098.56	2018.45	1882.17	1857.18	1975.67	2039.46
-2	771.55	723.30	703.14	702.92	703.33	762.82	724.12	666.56	717.27	734.00	703.79
	728.67	601.76	601.86	670.97	695.33	723.56	728.97	750.76	778.17	809.83	768.65
totaal	5131.75	4668.23	4611.49	4721.33	4702.45	4696.70	4706.62	4508.40	4674.47	4723.59	4763.68
	4870.57	4523.03	4620.95	4578.36	4738.57	4860.02	4730.66	4609.04	4517.19	4575.21	4690.03

source program:SIRENE  
 stuurprogramma:a:\stuur\stuural.stu  
 sourcefile:b:\invoer\r4575.dat  
 uitvoerfiles:i:\scratch\boschloo\4575ta.uit,i:\scratch\boschloo\4575ta.prn  
 i:\scratch\boschloo\tafout.prn  
 i:\scratch\boschloo\trend.prn  
 i:\scratch\boschloo\amplta.prn

landgrens: -159.00  
 zee grens: 800.00  
 ondergrens: -6.00  
 bovengrens: 20.00  
 laagdikte: 5.00

trend:5.71  
 amplitude:109.66  
 fase/jr opgang:vrij

periode: 1 ben(t)= 3915.5 + 5.7 t  
 periode: 2 ben(t)= 3915.5 + 5.7 t  
 periode: 3 ben(t)= 3911.0 + 5.7 t +109.7 sin(wt - 0.1)  
 periode: 4 ben(t)= 3909.0 + 5.7 t +109.7 sin(wt + 0.4)  
 periode: 5 ben(t)= 3915.8 + 5.7 t +109.7 sin(wt + 0.6)  
 periode: 6 ben(t)= 3920.3 + 5.7 t +109.7 sin(wt - 0.1)  
 periode: 7 ben(t)= 3912.1 + 5.7 t +109.7 sin(wt - 0.1)  
 periode: 8 ben(t)= 3917.3 + 5.7 t +109.7 sin(wt + 1.4)  
 periode: 9 ben(t)= 3908.0 + 5.7 t +109.7 sin(wt + 0.8)  
 periode: 10 ben(t)= 3909.8 + 5.7 t +109.7 sin(wt - 0.3)  
 periode: 11 ben(t)= 3915.5 + 5.7 t +109.7 sin(wt + 0.4)  
 periode: 12 ben(t)= 3920.5 + 5.7 t +109.7 sin(wt - 0.8)  
 periode: 13 ben(t)= 3910.7 + 5.7 t +109.7 sin(wt + 1.4)  
 periode: 14 ben(t)= 3936.3 + 5.7 t +109.7 sin(wt - 0.8)  
 periode: 15 ben(t)= 3897.4 + 5.7 t +109.7 sin(wt - 0.7)  
 periode: 16 ben(t)= 3902.4 + 5.7 t +109.7 sin(wt + 1.6)  
 periode: 17 ben(t)= 3932.2 + 5.7 t +109.7 sin(wt - 0.1)  
 periode: 18 ben(t)= 3927.4 + 5.7 t +109.7 sin(wt + 1.6)  
 periode: 19 ben(t)= 3905.7 + 5.7 t +109.7 sin(wt - 0.3)  
 periode: 20 ben(t)= 3914.0 + 5.7 t +109.7 sin(wt + 1.6)

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	193.87	199.63	145.15	97.87	97.46	99.82	97.57	99.57	100.88	96.25	95.52
	97.23	128.32	124.91	114.94	124.75	121.37	130.61	138.40	142.35	140.37	138.92
3	374.10	377.91	331.09	286.35	283.43	286.15	280.12	280.78	280.51	279.77	288.73
	292.71	319.70	312.53	314.08	310.91	311.88	319.21	311.46	318.52	314.83	316.65
2	467.31	475.14	429.78	386.13	386.36	385.98	387.32	394.20	401.72	404.41	414.55
	405.35	408.89	405.30	417.98	422.50	422.76	423.60	414.13	416.71	406.28	409.71
1	844.32	835.51	811.59	746.69	733.47	709.04	708.92	725.62	715.09	706.37	705.65
	710.18	713.03	755.53	714.53	782.75	794.35	781.17	784.59	714.96	677.41	737.05
-1	2309.33	2041.91	2152.28	1978.11	2030.50	2005.65	2066.24	2015.19	2000.92	2013.88	2027.08
	2012.64	2030.04	2049.31	2038.75	2064.83	2108.58	2166.00	1913.67	1932.60	1890.10	1958.56
-2	791.33	682.93	746.61	703.29	781.50	746.15	717.76	701.26	709.58	783.01	644.94
	677.95	622.52	632.62	664.33	669.00	658.83	701.50	705.83	798.50	807.00	733.54
totaal	4980.27	4613.02	4616.48	4198.43	4312.71	4232.80	4257.94	4216.63	4208.70	4283.69	4176.47
	4196.06	4222.50	4280.20	4264.61	4374.75	4417.78	4522.10	4268.08	4323.63	4235.99	4294.43

```

source program:SIRENE
stuurprogramma:a:\stuur\stuural.stu
sourcefile:b:\invoer\r4600.dat
uitvoerfiles:i:\scratch\boschloo\4600ta.uit,i:\scratch\boschloo\4600ta.prn
i:\scratch\boschloo\tafout.prn
i:\scratch\boschloo\trend.prn
i:\scratch\boschloo\amplta.prn

```

```

landgrens: -215.00
zeegrens: 800.00
ondergrens: -6.00
bovengrens: 20.00
laagdikte: 5.00

```

```

trend:6.03
amplitude:110.10
fase/jr opgang:vrij

```

```

periode: 1  ben(t)= 4698.9 + 6.0 t
periode: 2  ben(t)= 4698.9 + 6.0 t
periode: 3  ben(t)= 4695.6 + 6.0 t +110.1 sin(wt + 0.3)
periode: 4  ben(t)= 4694.0 + 6.0 t +110.1 sin(wt - 0.0)
periode: 5  ben(t)= 4702.3 + 6.0 t +110.1 sin(wt + 0.2)
periode: 6  ben(t)= 4702.7 + 6.0 t +110.1 sin(wt + 0.1)
periode: 7  ben(t)= 4695.8 + 6.0 t +110.1 sin(wt + 1.6)
periode: 8  ben(t)= 4702.5 + 6.0 t +110.1 sin(wt + 1.6)
periode: 9  ben(t)= 4701.4 + 6.0 t +110.1 sin(wt + 1.6)
periode: 10 ben(t)= 4692.4 + 6.0 t +110.1 sin(wt - 0.4)
periode: 11 ben(t)= 4698.9 + 6.0 t +110.1 sin(wt + 0.2)
periode: 12 ben(t)= 4705.7 + 6.0 t +110.1 sin(wt - 0.5)
periode: 13 ben(t)= 4689.6 + 6.0 t +110.1 sin(wt + 1.1)
periode: 14 ben(t)= 4689.4 + 6.0 t +110.1 sin(wt + 1.6)
periode: 15 ben(t)= 4698.2 + 6.0 t +110.1 sin(wt + 0.2)
periode: 16 ben(t)= 4685.7 + 6.0 t +110.1 sin(wt + 1.6)
periode: 17 ben(t)= 4720.5 + 6.0 t +110.1 sin(wt - 0.9)
periode: 18 ben(t)= 4710.8 + 6.0 t +110.1 sin(wt + 1.6)
periode: 19 ben(t)= 4700.1 + 6.0 t +110.1 sin(wt + 0.6)
periode: 20 ben(t)= 4697.4 + 6.0 t +110.1 sin(wt + 1.6)

```

laag	64	65	66	67	68	69	70	71	72	73	74
	75	76	77	78	79	80	81	82	83	84	85
4	65.37	67.86	53.64	67.88	52.40	62.02	58.18	83.48	137.62	123.15	112.40
	108.34	99.58	115.23	116.07	123.38	136.65	164.16	179.21	183.99	202.17	209.06
3	270.63	279.40	258.35	267.14	241.21	239.75	233.36	273.60	291.22	295.25	312.10
	442.83	436.63	448.66	452.37	459.30	467.83	478.91	490.91	495.50	505.51	511.37
2	549.35	552.54	532.27	538.41	510.19	503.55	497.17	536.14	599.75	603.96	616.28
	658.82	655.28	658.77	672.79	687.77	693.33	692.79	691.24	694.09	699.66	708.50
1	895.42	917.85	891.05	943.80	899.05	871.13	866.00	946.59	997.15	1007.54	998.94
	1041.41	960.69	1020.99	1047.49	1089.95	1066.34	1093.97	1073.50	1015.48	1044.83	1053.21
-1	2491.77	2301.47	2517.85	2294.11	2245.42	2151.31	2267.25	2356.67	2302.08	2349.85	2312.40
	2348.20	2159.57	2240.25	2261.00	2397.96	2356.90	2522.50	2296.44	2185.55	2105.25	2097.57
-2	867.92	795.37	809.93	745.68	746.03	745.14	807.08	740.40	755.11	812.45	750.58
	760.80	682.53	675.61	668.25	700.00	689.00	735.17	762.50	820.64	848.00	807.78
totaal	5140.46	4914.48	5063.10	4857.02	4694.30	4572.90	4729.04	4936.88	5082.94	5192.20	5102.69
	5360.40	4994.28	5159.52	5217.98	5458.36	5410.05	5687.50	5493.80	5395.24	5405.43	5387.49



