



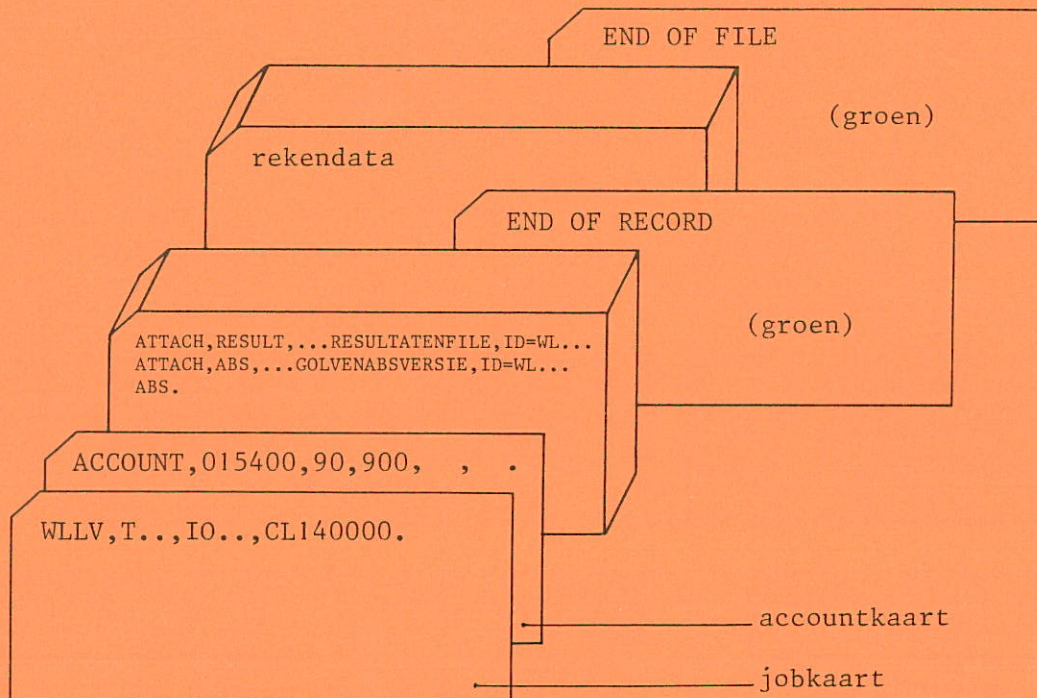
waterloopkundig laboratorium
delft hydraulics laboratory

GOLVEN
GOLFPL
TABTHE

Programma's voor berekenen golfwaarden met
verschillende theorieën

I/O-overzicht

december 1980



IUITV,REKENO,ITERO
(A5,5X,A6,4X,A5)

ITERL,ITERD,EPSL,EPST (2(I5,5X),2(F10.0,5X))	
FIRST (L6)	
ITSTAP,IDSTAP,CHANGE (6X,I3,2X,I3,2X,L5)	
IAANT=1	
doe I=1(1)IAANT	
VAR1,H (A4,16X,F10.0)	
ja	nee
VAR1=END	
ja	nee
VAR1=*DIEPTE	
er gaat gerekend worden met nieuwe H-waarde, indien geen waarde dan H=1	de onderhavige kaart wordt gebruikt voor het geven van waarden aan de volgende variabelen. De kaart hoeft niet aanwezig te zijn.
IAANT=IAANT+1 (opm: de lus wordt weer door lopen)	
TWGH,HGEDH,STARTL (2F10.0,5X,F10.0)	
ja	nee
I≠1 ∧ CHANGE≠TRUE	
(METHOD(J), J=1(1)NUMBTH*) (9(4X,A3,1X))	
(ITINTV(J), IDINTV(j), J=1(1)NUMBTH*) (9(I3,1X,I3,1X))	

* NUMBTH is het aantal golftheorieën die zijn geprogrammeerd, dit zijn er 5

VARIABELEN : IUITV,REKENG,ITERO

1 11 21 31 41 51 61 71
R1314 ITERATIE-OVERZICHT

VARIABELEN : ITERL,ITERD,EPSL,EPD

1 11 21 31 41 51 61 71

VARIABELEN : FIRST

1 11 21 31 41 51 61 71
TRUE

VARIABELEN : ITSTAP,IDSTAP,CHANGE

1 11 21 31 41 51 61 71

VARIABELEN : TWGH,HGEDH,STARTL

1 11 21 31 41 51 61 71
7.36 .326

VARIABELEN : METHOD

1 11 21 31 41 51 61 71
TH1•YES TH2•YES TH3•YES TH4•YES TH5•YES

VARIABELEN : ITINTV,IDINTV

1 11 21 31 41 51 61 71

1 11 21 31 41 51 61 71
END

uitvoer: GOLVEN-1 (1 t/m 17)

DESIGNED BY : DELFT HYDRAULICS LABORATORY
DE VOORST LABORATORY

*
* UITVOER BEREKENING VERSCHILLENDE GOLF-THEORIEEN *
*
* DATUM 08/03/79 *
*
* TIJDSTIP 09.18.03. *
*

***** BEREKENINGSNUMMER : R1314 *****

OVERZICHT VAN DE IN HET PROGRAMMA GEBRUIKTE GOLF-THEORIEEN

-
- THEORIE NUMMER 1 : LINEAIRE THEORIE
2 : THEORIE VAN SKJELBREIA
3 : THEORIE VAN LAITONE
4 : THEORIE VAN BORGMAN-CHAPPELEAR
5 : THEORIE VAN DE

GROOTHEDEN DIE PARAMETERS DIMENSIeloos MAKEN

** PARAMETER **	** DIMENSIeloos T.O.V. **
ETA	= DE DIEPTE
SNELHEID	= SQRT (G*DIEPTE)
DRUK	= RHO*G*DIEPTE H0

BEREKENINGS-NUMMER BINNEN DE UITGEVOERDE JOB 1

CONTROLE VAN DE BEREKENINGS-GEGEVENS

```

T*SQRT(G/DIEPTE) = .73600E+01
GOLF / DIEPTE = .32600E+00
PERIODE T = .23499E+01
DIEPTE H0 = .10000E+01
GOLFHOOGTE H = .32600E+00
  
```

OVERZICHT VAN GEWENSTE BEREKENINGEN EN UITVOER

THEORIE NUMMER	RESULTATEN UITVOER	ITERATIE BEREKENING	** TIJDSAFH, PARAMETERS **	NOG TE BEREKENEN	STAP- GROOTTE	** PLAATSAPH, PARAMETERS **	NOG TE BEREKENEN	STAP- GROOTTE	ER WAREN JA/NEE RESULTATEN BEREKEND
1	JA	JA	50	JA	50	JA	JA	20	NEE
2	JA	JA	50	JA	50	JA	JA	20	NEE
3	JA	JA	50	JA	50	JA	JA	20	NEE
4	JA	JA	50	JA	50	JA	JA	20	NEE
5	JA	JA	50	JA	50	JA	JA	20	NEE

ITERATIE OVERZICHT -

ITERATIE PROCES LINEAIR

ITER. NO	AMPLITUDE PARAMETER	DIEPTE H0	GOLFLENGTE L
0	--	.1000000E+01	.8621360E+01
1	--	.1000000E+01	.5365299E+01
1	--	.1000000E+01	.6993329E+01
2	--	.1000000E+01	.6168965E+01
2	--	.1000000E+01	.6581147E+01
3	--	.1000000E+01	.6396313E+01
3	--	.1000000E+01	.6488730E+01
4	--	.1000000E+01	.6448487E+01
4	--	.1000000E+01	.6468608E+01
5	--	.1000000E+01	.6459901E+01
5	--	.1000000E+01	.6464255E+01
6	--	.1000000E+01	.6462374E+01
6	--	.1000000E+01	.6463314E+01
7	--	.1000000E+01	.6462908E+01

ITERATIE PROCES SKJELBREIA

ITER. NO	AMPLITUDE PARAMETER	DIEPTE H0	GOLFLENGTE L
0	.1508837E+00	.1000000E+01	.8621360E+01
1	.1508837E+00	.1000000E+01	.5715487E+01
1	.1542296E+00	.1000000E+01	.7168423E+01
2	.1542296E+00	.1000000E+01	.6427153E+01
2	.1548934E+00	.1000000E+01	.6797788E+01
3	.1548934E+00	.1000000E+01	.6632378E+01
3	.1550306E+00	.1000000E+01	.6715083E+01
4	.1550306E+00	.1000000E+01	.6679556E+01
4	.1550596E+00	.1000000E+01	.6697319E+01
5	.1550596E+00	.1000000E+01	.6689755E+01
5	.1550657E+00	.1000000E+01	.6693537E+01
6	.1550657E+00	.1000000E+01	.6691930E+01
6	.1550670E+00	.1000000E+01	.6692733E+01
7	.1550670E+00	.1000000E+01	.6692392E+01

ITERATIE PROCES LAITONE

ITER. NO	AMPLITUDE PARAMETER	DIEPTE D	GOLFLENGTE L
0	.1484882E+00	.1000000E+01	.8621360E+01
1	.1523093E+00	.1003955E+01	.7013901E+01
1	.1523093E+00	.1003955E+01	.7817630E+01
2	.1525137E+00	.1003866E+01	.6900353E+01
2	.1525137E+00	.1003866E+01	.7358991E+01
3	.1526503E+00	.1003697E+01	.6820466E+01
3	.1526503E+00	.1003697E+01	.7089729E+01
4	.1527355E+00	.1003588E+01	.6769679E+01
4	.1527355E+00	.1003588E+01	.6929704E+01
5	.1527880E+00	.1003520E+01	.6737954E+01
5	.1527880E+00	.1003520E+01	.6833829E+01
6	.1528202E+00	.1003477E+01	.6718355E+01
6	.1528202E+00	.1003477E+01	.6776092E+01

7	.1528398E+00	.1003451E+01	.6706329E+01
7	.1528398E+00	.1003451E+01	.6741210E+01
8	.1528518E+00	.1003435E+01	.6698980E+01
8	.1528518E+00	.1003435E+01	.6720095E+01
9	.1528591E+00	.1003426E+01	.6694501E+01
9	.1528591E+00	.1003426E+01	.6707298E+01
10	.1528635E+00	.1003420E+01	.6691774E+01
10	.1528635E+00	.1003420E+01	.6699536E+01
11	.1528662E+00	.1003416E+01	.6690117E+01
11	.1528662E+00	.1003416E+01	.6694826E+01
12	.1528678E+00	.1003414E+01	.6689109E+01
12	.1528678E+00	.1003414E+01	.6691968E+01
13	.1528688E+00	.1003413E+01	.6688497E+01
13	.1528688E+00	.1003413E+01	.6690232E+01
14	.1528694E+00	.1003412E+01	.6688125E+01
14	.1528694E+00	.1003412E+01	.6689179E+01
15	.1528698E+00	.1003411E+01	.6687899E+01
15	.1528698E+00	.1003411E+01	.6688539E+01
16	.1528700E+00	.1003411E+01	.6687762E+01

ITERATIE PROCES BORGMAN

ITER. NO	AMPLITUDE *L/2PI	PARAMETER NIET *L/2PI	DIEPTE D	GOLFLENGTE L
0	.1802346E+00	.1313537E+00	.1000000E+01	.8621360E+01
1	.1135141E+00	.1245289E+00	.9825813E+00	.5727430E+01
1	.1135141E+00	.1245289E+00	.9825813E+00	.7174395E+01
2	.1289695E+00	.1277407E+00	.9865727E+00	.6343625E+01
2	.1289695E+00	.1277407E+00	.9865727E+00	.6759010E+01
3	.1358592E+00	.1290299E+00	.9863397E+00	.6615743E+01
3	.1358592E+00	.1290299E+00	.9863397E+00	.6687377E+01
4	.1371107E+00	.1292566E+00	.9861676E+00	.6664975E+01
4	.1371107E+00	.1292566E+00	.9861676E+00	.6676176E+01
5	.1372978E+00	.1292904E+00	.9861383E+00	.6672329E+01
5	.1372978E+00	.1292904E+00	.9861383E+00	.6674252E+01
6	.1373291E+00	.1292959E+00	.9861343E+00	.6673564E+01

ITERATIE PROCES DE

ITER. NO	AMPLITUDE PARAMETER	DIEPTE Q/C	GOLFLENGTE L
-1	0.	.1000000E+01	.8621360E+01
0	0.	.1000000E+01	.5365299E+01
0	-.4975266E-01	.1000000E+01	.5365299E+01
1	-.7726259E-01	.9836514E+00	.7521122E+01
1	-.7726259E-01	.9836514E+00	.6443210E+01
2	-.7237361E-01	.9765550E+00	.7053352E+01
2	-.7237361E-01	.9765550E+00	.6748281E+01
3	-.6813932E-01	.9829685E+00	.6733024E+01
3	-.6813932E-01	.9829685E+00	.6740653E+01
4	-.6739757E-01	.9848978E+00	.6682168E+01
4	-.6739757E-01	.9848978E+00	.6711410E+01
5	-.6753098E-01	.9850048E+00	.6693819E+01
5	-.6753098E-01	.9850048E+00	.6702615E+01
6	-.6763689E-01	.9848742E+00	.6701880E+01

AANTAL ITERATIES NODIG OM DE AANGEGEVEN PARAMETER, TE VERKRIJGEN

GEWENSTE NAUWKEURIGHEID VOOR DE GOLFLENGTE L : ,10000E-02

THEORIE NUMMER	GOLFLENGTE L
1	7
2	7
3	16
4	6
5	6

OVERZICHT GOLF-PARAMETERS

THEORIE NUMMER	DIEPTE D	GOLFLENGTE L	AMPLITUDE PARAMETER	(T.O.V. HALVE TOP	GOLFWAARDEN GOLFHUOGTE) DAL	GOLFSNELLEID/ SGRT(G*H0)	STOKES PARAMETER S
1	--	.6462908E+01	--	.1000000E+01	.8781125E+00	.1361675E+02	
2	--	.6692392E+01	.1550570E+00	.1214800E+01	.9092924E+00	.1460092E+02	
3	.1003411E+01	.6687762E+01	.1528700E+00	.1207186E+01	.9086634E+00	.1458073E+02	
4	.9861343E+00	.6673564E+01	.1373291E+00	.1197010E+01	.9067342E+00	.1451888E+02	
5	.9848742E+00	.6701880E+01	.6763689E+01	.1222391E+01	.9105815E+00	.1464235E+02	

LINEAIRE GOLFTHEORIE

***** BEREKENING TIJDSAFHANKELIJKE PARAMETERS *****

NO	TIJD/T	ETA	SNELHEID (Z=-H)	DRUK (Z=-H)
1	0,000	,1630000E+00	,1228500E+00	,1107876E+01
2	,020	,1617147E+00	,1218813E+00	,1107025E+01
3	,040	,1578791E+00	,1189904E+00	,1104487E+01
4	,060	,1515536E+00	,1142230E+00	,1100301E+01
5	,080	,1428380E+00	,1076543E+00	,1094533E+01
6	,100	,1318698E+00	,9938772E-01	,1087274E+01
7	,120	,1188219E+00	,8955378E-01	,1078638E+01
8	,140	,1039001E+00	,7830752E-01	,1068763E+01
9	,160	,8733977E-01	,6582631E-01	,1057803E+01
10	,180	,6940202E-01	,5230698E-01	,1045931E+01
11	,200	,5036977E-01	,3796273E-01	,1033336E+01
12	,220	,3054315E-01	,2301979E-01	,1020214E+01
13	,240	,1023485E-01	,7713814E-02	,1006774E+01
14	,260	-,1023485E-01	-,7713814E-02	,9932264E+00
15	,280	-,3054315E-01	-,2301979E-01	,9797860E+00
16	,300	-,5036977E-01	-,3796273E-01	,9666645E+00
17	,320	-,6940202E-01	-,5230698E-01	,9540686E+00
18	,340	-,8733977E-01	-,6582631E-01	,9421971E+00
19	,360	-,1039001E+00	-,7830752E-01	,9312372E+00
20	,380	-,1188219E+00	-,8955378E-01	,9213617E+00
21	,400	-,1318698E+00	-,9938772E-01	,9127264E+00
22	,420	-,1428380E+00	-,1076543E+00	,9054675E+00
23	,440	-,1515536E+00	-,1142230E+00	,8996993E+00
24	,460	-,1578791E+00	-,1189904E+00	,8955130E+00
25	,480	-,1617147E+00	-,1218813E+00	,8929745E+00
26	,500	-,1630000E+00	-,1228500E+00	,8921239E+00
27	,520	-,1617147E+00	-,1218813E+00	,8929745E+00
28	,540	-,1578791E+00	-,1189904E+00	,8955130E+00
29	,560	-,1515536E+00	-,1142230E+00	,8996993E+00
30	,580	-,1428380E+00	-,1076543E+00	,9054675E+00
31	,600	-,1318698E+00	-,9938772E-01	,9127264E+00
32	,620	-,1188219E+00	-,8955378E-01	,9213617E+00
33	,640	-,1039001E+00	-,7830752E-01	,9312372E+00
34	,660	-,8733977E-01	-,6582631E-01	,9421971E+00
35	,680	-,6940202E-01	-,5230698E-01	,9540686E+00
36	,700	-,5036977E-01	-,3796273E-01	,9666645E+00
37	,720	-,3054315E-01	-,2301979E-01	,9797860E+00
38	,740	-,1023485E-01	-,7713814E-02	,9932264E+00
39	,760	,1023485E-01	,7713814E-02	,1006774E+01
40	,780	,3054315E-01	,2301979E-01	,1020214E+01
41	,800	,5036977E-01	,3796273E-01	,1033336E+01
42	,820	,6940202E-01	,5230698E-01	,1045931E+01
43	,840	,8733977E-01	,6582631E-01	,1057803E+01
44	,860	,1039001E+00	,7830752E-01	,1068763E+01
45	,880	,1188219E+00	,8955378E-01	,1078638E+01
46	,900	,1318698E+00	,9938772E-01	,1087274E+01
47	,920	,1428380E+00	,1076543E+00	,1094533E+01
48	,940	,1515536E+00	,1142230E+00	,1100301E+01
49	,960	,1578791E+00	,1189904E+00	,1104487E+01
50	,980	,1617147E+00	,1218813E+00	,1107025E+01
51	1,000	,1630000E+00	,1228500E+00	,1107876E+01

TIJDSTIP WAAROP DE WATERSPIEGEL-VERANDERING NUL IS, : ,250

LINEAIRE GOLFTHEORIE

***** BEREKENING PLAATSFAFHANKELIJKE PARAMETERS *****

NO	Z / HO (M)	SNELHEDEN T.P.V.		VERTIKALE		DRUKKEN T.P.V.	
		GOLFTOP	GOLFDAL	SNELHEID	SNELHEID	GOLFTOP	GOLFDAL
1	1.000	.128500E+00	.128500E+00	0.	.5974038E+02	.1107876E+01	.8921239E+00
2	.950	.1229951E+00	.1229951E+00	.1196220E+01	.1196220E+01	.1050004E+01	.8419964E+00
3	.900	.1234310E+00	.1234310E+00	.1797862E+01	.1797862E+01	.1008366E+01	.7916147E+00
4	.850	.1241586E+00	.1241586E+00	.2403754E+01	.2403754E+01	.9590252E+00	.7409748E+00
5	.800	.1251796E+00	.1251796E+00	.3015327E+01	.3015327E+01	.9099217E+00	.6900783E+00
6	.750	.1264964E+00	.1264964E+00	.3634026E+01	.3634026E+01	.8610781E+00	.6389219E+00
7	.700	.1281122E+00	.1281122E+00	.4261313E+01	.4261313E+01	.8124991E+00	.5875031E+00
8	.650	.1300308E+00	.1300308E+00	.4898672E+01	.4898672E+01	.7641816E+00	.5358184E+00
9	.600	.1322566E+00	.1322566E+00	.5547608E+01	.5547608E+01	.7161362E+00	.4838638E+00
10	.550	.1347951E+00	.1347951E+00	.6209655E+01	.6209655E+01	.6683652E+00	.4316348E+00
11	.500	.1376521E+00	.1376521E+00	.6886377E+01	.6886377E+01	.6208740E+00	.3791260E+00
12	.450	.1408344E+00	.1408344E+00	.7579374E+01	.7579374E+01	.5267552E+00	.3263315E+00
13	.400	.1443496E+00	.1443496E+00	.8290285E+01	.8290285E+01	.4801415E+00	.2732448E+00
14	.350	.1482059E+00	.1482059E+00	.9020788E+01	.9020788E+01	.4338333E+00	.2198585E+00
15	.300	.1524125E+00	.1524125E+00	.9772610E+01	.9772610E+01	.3878455E+00	.1661647E+00
16	.250	.1569793E+00	.1569793E+00	.1054753E+00	.1054753E+00	.3421814E+00	.1121545E+00
17	.200	.1619171E+00	.1619171E+00	.1113691E+00	.1113691E+00	.3086038E+00	.5781856E-01
18	.163	.1658168E+00	.1658168E+00	.1189934E+00	.1189934E+00	.2666129E+00	.17394423E-01
19	.116	.1710309E+00	.1710309E+00	.1268617E+00	.1268617E+00	.2249280E+00	.1121545E+00
20	.070	.1765956E+00	.1765956E+00	.1349901E+00	.1349901E+00	.1835610E+00	.1121545E+00
21	.023	.1825225E+00	.1825225E+00	.1391570E+00	.1391570E+00	.1630000E+00	.1121545E+00
22	0.000	.1856254E+00	.1856254E+00			.1425226E+00	.1121545E+00
23	.023	.1888235E+00	.1888235E+00			.1018241E+00	.1121545E+00
24	.070	.1955117E+00	.1955117E+00			.6147771E-01	.1121545E+00
25	.116	.2026008E+00	.2026008E+00			.2149604E-01	.1121545E+00
26	.163	.2101052E+00	.2101052E+00				.1121545E+00

*** DAL ***

*** TOP ***

GOLFTHEORIE VAN SKJELBREIA

***** BEREKENING TIJDSAFHANKELIJKE PARAMETERS *****

NO	TIJD/T	ETA	SNELHEID (Z=-H)	DRUK (Z=-H)
1	0,000	,1980124E+00	,1330676E+00	,1112242E+01
2	,020	,1951326E+00	,1317508E+00	,1111212E+01
3	,040	,1866598E+00	,1278397E+00	,1108145E+01
4	,060	,1730785E+00	,1214496E+00	,1103104E+01
5	,080	,1551452E+00	,1127665E+00	,1096198E+01
6	,100	,1338202E+00	,1020375E+00	,1087571E+01
7	,120	,1101812E+00	,8955899E-01	,1077407E+01
8	,140	,8533150E-01	,7566278E-01	,1065918E+01
9	,160	,6031147E-01	,6070142E-01	,1053343E+01
10	,180	,3602308E-01	,4503344E-01	,1039943E+01
11	,200	,1317484E-01	,2900964E-01	,1025986E+01
12	,220	-,7747953E-02	,1296113E-01	,1011747E+01
13	,240	-,2648654E-01	-,2810331E-02	,9974951E+00
14	,260	-,4298727E-01	-,1803927E-01	,9834876E+00
15	,280	-,5736056E-01	-,3250067E-01	,9699613E+00
16	,300	-,6982705E-01	-,4601138E-01	,9571277E+00
17	,320	-,8065932E-01	-,5842910E-01	,9451679E+00
18	,340	-,9012708E-01	-,6964931E-01	,9342305E+00
19	,360	-,9845306E-01	-,7960066E-01	,9244309E+00
20	,380	-,1057842E+00	-,8823942E-01	,9158534E+00
21	,400	-,1121810E+00	-,9554343E-01	,9085545E+00
22	,420	-,1176234E+00	-,1015060E+00	,9025676E+00
23	,440	-,1220317E+00	-,1061301E+00	,8979089E+00
24	,460	-,1252956E+00	-,1094238E+00	,8945832E+00
25	,480	-,1273066E+00	-,1113958E+00	,8925895E+00
26	,500	-,1279864E+00	-,1120523E+00	,8919254E+00
27	,520	-,1273066E+00	-,1113958E+00	,8925895E+00
28	,540	-,1252956E+00	-,1094238E+00	,8945832E+00
29	,560	-,1220317E+00	-,1061301E+00	,8979089E+00
30	,580	-,1176234E+00	-,1015060E+00	,9025676E+00
31	,600	-,1121810E+00	-,9554343E-01	,9085545E+00
32	,620	-,1057842E+00	-,8823942E-01	,9158534E+00
33	,640	-,9845306E-01	-,7960066E-01	,9244309E+00
34	,660	-,9012708E-01	-,6964931E-01	,9342305E+00
35	,680	-,8065932E-01	-,5842910E-01	,9451679E+00
36	,700	-,6982705E-01	-,4601138E-01	,9571277E+00
37	,720	-,5736056E-01	-,3250067E-01	,9699613E+00
38	,740	-,4298727E-01	-,1803927E-01	,9834876E+00
39	,760	-,2648654E-01	-,2810331E-02	,9974951E+00
40	,780	-,7747953E-02	,1296113E-01	,1011747E+01
41	,800	,1317484E-01	,2900964E-01	,1025986E+01
42	,820	,3602308E-01	,4503344E-01	,1039943E+01
43	,840	,6031147E-01	,6070142E-01	,1053343E+01
44	,860	,8533150E-01	,7566278E-01	,1065918E+01
45	,880	,1101812E+00	,8955899E-01	,1077407E+01
46	,900	,1338202E+00	,1020375E+00	,1087571E+01
47	,920	,1551452E+00	,1127665E+00	,1096198E+01
48	,940	,1730785E+00	,1214496E+00	,1103104E+01
49	,960	,1866598E+00	,1278397E+00	,1108145E+01
50	,980	,1951326E+00	,1317508E+00	,1111212E+01
51	1,000	,1980124E+00	,1330676E+00	,1112242E+01

TIJDSTIP WAAROP DE WATERSPIEGEL-VERANDERING NUL IS, : ,213

GOLFTHEORIE VAN SKJELBREIA

***** BEREKENING PLAATSAFHANKELIJKE PARAMETERS *****

NU	Z / H0 (M)	SNELHEDEN T, P, V,		VERTIKALE SNELHEID	DRUKKEN T, P, V,	
		GOLFTOP	GOLFDAL		GOLFTOP	GOLFDAL
1	-1,000	.1350676E+00	.1120523E+00	0,	.112242E+01	.8919254E+00
2	-.950	.1332519E+00	.1121439E+00	.6050615E+02	.1062386E+01	.8418327E+00
3	-.900	.1338054E+00	.1124186E+00	.1211789E+01	.1012819E+01	.7915547E+00
4	-.850	.1347306E+00	.1128762E+00	.1821857E+01	.9635407E+00	.7410919E+00
5	-.800	.1360313E+00	.1135166E+00	.2436952E+01	.9145546E+00	.6904433E+00
6	-.750	.1377130E+00	.1143394E+00	.3058782E+01	.8658634E+00	.6396102E+00
7	-.700	.1397828E+00	.1153440E+00	.3689089E+01	.8174708E+00	.5885926E+00
8	-.650	.1422493E+00	.1165299E+00	.4329635E+01	.7693818E+00	.5373909E+00
9	-.600	.1451233E+00	.1178963E+00	.4982249E+01	.7216018E+00	.4860057E+00
10	-.550	.1484169E+00	.1194423E+00	.5648795E+01	.6741376E+00	.4344378E+00
11	-.500	.1521445E+00	.1211666E+00	.6331206E+01	.6269965E+00	.3826883E+00
12	-.450	.1563223E+00	.1230678E+00	.7031479E+01	.5801870E+00	.3307586E+00
13	-.400	.1609687E+00	.1251444E+00	.7751696E+01	.5337185E+00	.2786503E+00
14	-.350	.1661046E+00	.1273944E+00	.8494024E+01	.4876014E+00	.2263656E+00
15	-.300	.1717529E+00	.1298153E+00	.9260733E+01	.4418471E+00	.1739072E+00
16	-.250	.1779394E+00	.1324046E+00	.1005421E+00	.3964681E+00	.1212784E+00
17	-.200	.1846929E+00	.1351591E+00	.1087695E+00	.3514778E+00	.6848324E+01
18	-.150	.1920448E+00	.1380752E+00	.1173161E+00	.3068909E+00	.1552676E+01
19	-.128	.1954803E+00	.1394092E+00	.1211872E+00	.2873923E+00	.7838181E+02
20	-.081	.2031675E+00		.1296100E+00	.2464160E+00	
21	-.035	.2114510E+00		.1383697E+00	.2058234E+00	
22	0,000	.2180597E+00		.1451594E+00	.1737125E+00	
23	.012	.2203662E+00			.1656295E+00	
24	.058	.2299519E+00			.1298497E+00	
25	.105	.2402505E+00			.8650084E+01	
26	.151	.2513083E+00			.4760017E+01	
27	.198	.2631757E+00			.9166023E+02	

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GOLFTHEORIE VAN LAITONE

***** BEREKENING TIJDSAFHANKELIJKE PARAMETERS *****

NO	TIJD/T	ETA	SNELHEID (Z=H)	DRUK (Z=H)
1	0,000	,1967709E+00	,1268410E+00	,1110707E+01
2	,020	,1939571E+00	,1255934E+00	,1109725E+01
3	,040	,1856756E+00	,1218871E+00	,1106799E+01
4	,060	,1723916E+00	,1158302E+00	,1101993E+01
5	,080	,1548320E+00	,1075967E+00	,1095407E+01
6	,100	,1339204E+00	,9741820E=01	,1087182E+01
7	,120	,1106945E+00	,8557269E=01	,1077491E+01
8	,140	,8621922E=01	,7237180E=01	,1066537E+01
9	,160	,6150139E=01	,5814711E=01	,1054549E+01
10	,180	,3741804E=01	,4323654E=01	,1041771E+01
11	,200	,1466338E=01	,2797149E=01	,1028461E+01
12	,220	-,6280235E=02	,1266571E=01	,1014879E+01
13	,240	-,2514602E=01	-,2393847E=02	,1001280E+01
14	,260	-,4186319E=01	-,1695363E=01	,9879080E+00
15	,280	-,5651854E=01	-,3079751E=01	,9749885E+00
16	,300	-,6930584E=01	-,4374833E=01	,9627224E+00
17	,320	-,8047081E=01	-,5566710E=01	,9512827E+00
18	,340	-,9025929E=01	-,6645034E=01	,9408117E+00
19	,360	-,9887529E=01	-,7602597E=01	,9314214E+00
20	,380	-,1064536E+00	-,8434820E=01	,9231942E+00
21	,400	-,1130488E+00	-,9139198E=01	,9161866E+00
22	,420	-,1186413E+00	-,9714740E=01	,9104333E+00
23	,440	-,1231557E+00	-,1016144E+00	,9059528E+00
24	,460	-,1264883E+00	-,1047980E+00	,9027522E+00
25	,480	-,1285372E+00	-,1067048E+00	,9008326E+00
26	,500	-,1292291E+00	-,1073397E+00	,9001929E+00
27	,520	-,1285372E+00	-,1067048E+00	,9008326E+00
28	,540	-,1264883E+00	-,1047980E+00	,9027522E+00
29	,560	-,1231557E+00	-,1016144E+00	,9059528E+00
30	,580	-,1186413E+00	-,9714740E=01	,9104333E+00
31	,600	-,1130488E+00	-,9139198E=01	,9161866E+00
32	,620	-,1064536E+00	-,8434820E=01	,9231942E+00
33	,640	-,9887529E=01	-,7602597E=01	,9314214E+00
34	,660	-,9025929E=01	-,6645034E=01	,9408117E+00
35	,680	-,8047081E=01	-,5566710E=01	,9512827E+00
36	,700	-,6930584E=01	-,4374833E=01	,9627224E+00
37	,720	-,5651854E=01	-,3079751E=01	,9749885E+00
38	,740	-,4186319E=01	-,1695363E=01	,9879080E+00
39	,760	-,2514602E=01	-,2393847E=02	,1001280E+01
40	,780	-,6280235E=02	,1266571E=01	,1014879E+01
41	,800	,1466338E=01	,2797149E=01	,1028461E+01
42	,820	,3741804E=01	,4323654E=01	,1041771E+01
43	,840	,6150139E=01	,5814711E=01	,1054549E+01
44	,860	,8621922E=01	,7237180E=01	,1066537E+01
45	,880	,1106945E+00	,8557269E=01	,1077491E+01
46	,900	,1339204E+00	,9741820E=01	,1087182E+01
47	,920	,1548320E+00	,1075967E+00	,1095407E+01
48	,940	,1723916E+00	,1158302E+00	,1101993E+01
49	,960	,1856756E+00	,1218871E+00	,1106799E+01
50	,980	,1939571E+00	,1255934E+00	,1109725E+01
51	1,000	,1967709E+00	,1268410E+00	,1110707E+01

TIJDSTIP WAAROP DE WATERSPIEGEL-VERANDERING NUL IS, : .214

GOLF THEORIE VAN LAITONE

***** BEREKENING PLAATSAFHANKELIJKE PARAMETERS *****

NO	Z / HO (M)	SNELHEDEN T.P.V.		VERTIKALE SNELHEID	DRUKKEN T.P.V.	
		GOLFTOP	GOLFDAL		GOLFTOP	GOLFDAL
1	-1.000	.1268410E+00	-.1073397E+00	0.	.1110707E+01	.9001929E+00
2	-.950	.1270158E+00	-.1074285E+00	.5719493E-02	.1060844E+01	.8501035E+00
3	-.900	.1275410E+00	-.1076945E+00	.1145374E-01	.1011257E+01	.7998354E+00
4	-.850	.1284188E+00	-.1081378E+00	.1721753E-01	.9619466E+00	.7493887E+00
5	-.800	.1296528E+00	-.1087582E+00	.2302575E-01	.9129149E+00	.6987653E+00
6	-.750	.1312481E+00	-.1095554E+00	.2889343E-01	.8641648E+00	.6479595E+00
7	-.700	.1332114E+00	-.1105288E+00	.3483577E-01	.8157000E+00	.5969775E+00
8	-.650	.1355509E+00	-.1116782E+00	.4086820E-01	.7675231E+00	.5458176E+00
9	-.600	.1382764E+00	-.1130027E+00	.4700642E-01	.7196454E+00	.4944802E+00
10	-.550	.1413996E+00	-.1145016E+00	.5326647E-01	.6720674E+00	.4429660E+00
11	-.500	.1449338E+00	-.1161740E+00	.5966473E-01	.6247981E+00	.3912758E+00
12	-.450	.1488942E+00	-.1180185E+00	.6621802E-01	.5778458E+00	.3394106E+00
13	-.400	.1532981E+00	-.1200338E+00	.7294361E-01	.5312194E+00	.2873719E+00
14	-.350	.1581649E+00	-.1222181E+00	.7885929E-01	.4849291E+00	.2351615E+00
15	-.300	.1635162E+00	-.1245695E+00	.8698341E-01	.4389857E+00	.1827815E+00
16	-.250	.1693762E+00	-.1270854E+00	.9433492E-01	.3934012E+00	.1302348E+00
17	-.200	.1757716E+00	-.1297633E+00	.1019335E+00	.3481888E+00	.7752494E-01
18	-.150	.1827320E+00	-.1325997E+00	.1097993E+00	.3033624E+00	.2465608E-01
19	-.129	.1857973E+00	-.1336238E+00	.1131506E+00	.2848575E+00	.2647461E-02
20	-.083	.1930577E+00		.1208534E+00	.2436250E+00	
21	-.036	.2008794E+00		.1288321E+00	.2027599E+00	
22	0.000	.2092955E+00		.1352161E+00	.1713572E+00	
23	.010	.2183419E+00			.1622765E+00	
24	.057	.2280582E+00			.1221900E+00	
25	.104	.2384874E+00			.8251666E-01	
26	.150	.2496766E+00			.4327333E-01	
27	.197				.4477897E-02	

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GOLFTHEORIE VAN BURGMAN-CHAPPELEAR

***** BEREKENING TIJDSAFHANKELIJKE PARAMETERS *****

NO	TIJD/T	FTA	SNELHEID (Z=-H)	DRUK (Z=-H)
1	0,000	,1951126E+00	,1275234E+00	,1107588E+01
2	,020	,1923808E+00	,1262636E+00	,1106600E+01
3	,040	,1843374E+00	,1225216E+00	,1103655E+01
4	,060	,1714245E+00	,1164075E+00	,1098817E+01
5	,080	,1543337E+00	,1080988E+00	,1092191E+01
6	,100	,1339443E+00	,9783141E-01	,1083917E+01
7	,120	,1112459E+00	,8588820E-01	,1074172E+01
8	,140	,8725607E-01	,7258596E-01	,1063164E+01
9	,160	,6294038E-01	,5826122E-01	,1051121E+01
10	,180	,3914393E-01	,4325634E-01	,1038293E+01
11	,200	,1654126E-01	,2790634E-01	,1024940E+01
12	,220	-,4391488E-02	,1252761E-01	,1011322E+01
13	,240	-,2338081E-01	-,2591346E-02	,9976961E+00
14	,260	-,4033799E-01	-,1719646E-01	,9843075E+00
15	,280	-,5532362E-01	-,3107208E-01	,9713809E+00
16	,300	-,6850056E-01	-,4404225E-01	,9591169E+00
17	,320	-,8008263E-01	-,5596981E-01	,9476871E+00
18	,340	-,9028615E-01	-,6675343E-01	,9372326E+00
19	,360	-,9929067E-01	-,7632329E-01	,9278632E+00
20	,380	-,1072131E+00	-,8463584E-01	,9196594E+00
21	,400	-,1140976E+00	-,9166804E-01	,9126758E+00
22	,420	-,1199201E+00	-,9741171E-01	,9069451E+00
23	,440	-,1246063E+00	-,1018682E+00	,9024841E+00
24	,460	-,1280564E+00	-,1050436E+00	,8992985E+00
25	,480	-,1301733E+00	-,1069451E+00	,8973884E+00
26	,500	-,1308874E+00	-,1075783E+00	,8967520E+00
27	,520	-,1301733E+00	-,1069451E+00	,8973884E+00
28	,540	-,1280564E+00	-,1050436E+00	,8992985E+00
29	,560	-,1246063E+00	-,1018682E+00	,9024841E+00
30	,580	-,1199201E+00	-,9741171E-01	,9069451E+00
31	,600	-,1140976E+00	-,9166804E-01	,9126758E+00
32	,620	-,1072131E+00	-,8463584E-01	,9196594E+00
33	,640	-,9929067E-01	-,7632329E-01	,9278632E+00
34	,660	-,9028615E-01	-,6675343E-01	,9372326E+00
35	,680	-,8008263E-01	-,5596981E-01	,9476871E+00
36	,700	-,6850056E-01	-,4404225E-01	,9591169E+00
37	,720	-,5532362E-01	-,3107208E-01	,9713809E+00
38	,740	-,4033799E-01	-,1719646E-01	,9843075E+00
39	,760	-,2338081E-01	-,2591346E-02	,9976961E+00
40	,780	-,4391488E-02	,1252761E-01	,1011322E+01
41	,800	,1654126E-01	,2790634E-01	,1024940E+01
42	,820	,3914393E-01	,4325634E-01	,1038293E+01
43	,840	,6294038E-01	,5826122E-01	,1051121E+01
44	,860	,8725607E-01	,7258596E-01	,1063164E+01
45	,880	,1112459E+00	,8588820E-01	,1074172E+01
46	,900	,1339443E+00	,9783141E-01	,1083917E+01
47	,920	,1543337E+00	,1080988E+00	,1092191E+01
48	,940	,1714245E+00	,1164075E+00	,1098817E+01
49	,960	,1843374E+00	,1225216E+00	,1103655E+01
50	,980	,1923808E+00	,1262636E+00	,1106600E+01
51	1,000	,1951126E+00	,1275234E+00	,1107588E+01

TIJDSTIP WAAROP DE WATERSPIEGEL-VERANDERING NUL IS, : ,215

GOLFTHEORIE VAN BORGMAN=CHAPPELEAR

***** BEREKENING PLAATSAFHANKELIJKE PARAMETERS *****

NO	Z / H0 (M)	SNELHEDEN T,P,V, _g		VERTIKALE SNELHEID		DRUKKEN T,P,V, _g	
		GOLFTOP	GOLFDAL	GOLFTOP	GOLFDAL	GOLFTOP	GOLFDAL
1	-1.000	.1275234E+00	-.1075783E+00	0.	.5751854E-02	.1107588E+01	.8967520E+00
2	-.950	.1277007E+00	-.1076671E+00	.5751854E-02	.1151847E-01	.1057727E+01	.8466627E+00
3	-.900	.1282333E+00	-.1079336E+00	.1151847E-01	.1731464E-01	.1008145E+01	.7963948E+00
4	-.850	.1291235E+00	-.1083775E+00	.1731464E-01	.2315526E-01	.9588422E+00	.7459484E+00
5	-.800	.1303750E+00	-.1089987E+00	.2315526E-01	.2905535E-01	.9098213E+00	.6953236E+00
6	-.750	.1319931E+00	-.1097969E+00	.2905535E-01	.3503011E-01	.8610853E+00	.6445206E+00
7	-.700	.1339846E+00	-.1107716E+00	.3503011E-01	.4109495E-01	.8126378E+00	.5935397E+00
8	-.650	.1363580E+00	-.1119223E+00	.4109495E-01	.4726554E-01	.7644837E+00	.5423812E+00
9	-.600	.1391235E+00	-.1132483E+00	.4726554E-01	.5355787E-01	.7166286E+00	.4910456E+00
10	-.550	.1422930E+00	-.1147488E+00	.5355787E-01	.5998828E-01	.6690788E+00	.4395336E+00
11	-.500	.1458802E+00	-.1164226E+00	.5998828E-01	.6657350E-01	.6218419E+00	.3878462E+00
12	-.450	.1499010E+00	-.1182686E+00	.6657350E-01	.7333070E-01	.5749261E+00	.3359845E+00
13	-.400	.1543729E+00	-.1202853E+00	.7333070E-01	.8027756E-01	.5283409E+00	.2839500E+00
14	-.350	.1593162E+00	-.1224709E+00	.8027756E-01	.8743226E-01	.4820966E+00	.2317447E+00
15	-.300	.1647530E+00	-.1248232E+00	.8743226E-01	.9481337E-01	.4362044E+00	.1793709E+00
16	-.250	.1707085E+00	-.1273399E+00	.9481337E-01	.1024409E+00	.3906768E+00	.1268317E+00
17	-.200	.1772101E+00	-.1300180E+00	.1024409E+00	.1103342E+00	.3452735E+00	.7413067E-01
18	-.150	.1842885E+00	-.1328544E+00	.1103342E+00	.1134261E+00	.3007704E+00	.2127235E-01
19	-.131	.1871536E+00	-.1339745E+00	.1134261E+00	.1211429E+00	.2837690E+00	.1026682E-02
20	-.084	.1945210E+00	-.1358219E+00	.1211429E+00	.1291331E+00	.2425974E+00	*** DAL ***
21	-.038	.2024613E+00	-.1358219E+00	.1291331E+00	.1358219E+00	.2017995E+00	*** DAL ***
22	0.000	.2093403E+00	-.1358219E+00	.1358219E+00	.1358219E+00	.1690187E+00	*** DAL ***
23	.009	.2110086E+00	-.1358219E+00	.1358219E+00	.1358219E+00	.1613903E+00	*** DAL ***
24	.055	.220203E+00	-.1358219E+00	.1358219E+00	.1358219E+00	.1213855E+00	*** DAL ***
25	.102	.2300771E+00	-.1358219E+00	.1358219E+00	.1358219E+00	.8180190E+01	*** DAL ***
26	.149	.2406836E+00	-.1358219E+00	.1358219E+00	.1358219E+00	.4265711E+01	*** DAL ***
27	.195	.2520685E+00	-.1358219E+00	.1358219E+00	.1358219E+00	.3969794E-02	*** DAL ***

GOLFTHEORIE VAN DE

***** BEREKENING TIJDSAFHANKELIJKE PARAMETERS *****

NO	TIJD/T	ETA	SNELHEID (Z=-H)	DRUK (Z=-H)
1	0,000	,1991956E+00	,1265479E+00	,1093338E+01
2	,020	,1960431E+00	,1252897E+00	,1092301E+01
3	,040	,1868346E+00	,1215525E+00	,1089217E+01
4	,060	,1722767E+00	,1154478E+00	,1084165E+01
5	,080	,1534210E+00	,1071547E+00	,1077276E+01
6	,100	,1315066E+00	,9691159E-01	,1068723E+01
7	,120	,1077928E+00	,8500438E-01	,1058717E+01
8	,140	,8341625E-01	,7175321E-01	,1047495E+01
9	,160	,5929800E-01	,5749784E-01	,1035316E+01
10	,180	,3610800E-01	,4258320E-01	,1022442E+01
11	,200	,1428111E-01	,2734575E-01	,1009139E+01
12	,220	-,5934313E-02	,1210168E-01	,9956597E+00
13	,240	-,2441763E-01	-,2862555E-02	,9822410E+00
14	,260	-,4112599E-01	-,1729678E-01	,9690984E+00
15	,280	-,5606321E-01	-,3099078E-01	,9564232E+00
16	,300	-,6926769E-01	-,4377508E-01	,9443815E+00
17	,320	-,8081120E-01	-,5551930E-01	,9331159E+00
18	,340	-,9079825E-01	-,6612858E-01	,9227470E+00
19	,360	-,9935767E-01	-,7553863E-01	,9133766E+00
20	,380	-,1066244E+00	-,8371003E-01	,9050901E+00
21	,400	-,1127157E+00	-,9062243E-01	,8979592E+00
22	,420	-,1177102E+00	-,9626889E-01	,8920435E+00
23	,440	-,1216384E+00	-,1006509E+00	,8873915E+00
24	,460	-,1244876E+00	-,1037740E+00	,8840411E+00
25	,480	-,1262215E+00	-,1056446E+00	,8820199E+00
26	,500	-,1268044E+00	-,1062676E+00	,8813442E+00
27	,520	-,1262215E+00	-,1056446E+00	,8820199E+00
28	,540	-,1244876E+00	-,1037740E+00	,8840411E+00
29	,560	-,1216384E+00	-,1006509E+00	,8873915E+00
30	,580	-,1177102E+00	-,9626889E-01	,8920435E+00
31	,600	-,1127157E+00	-,9062243E-01	,8979592E+00
32	,620	-,1066244E+00	-,8371003E-01	,9050901E+00
33	,640	-,9935767E-01	-,7553863E-01	,9133766E+00
34	,660	-,9079825E-01	-,6612858E-01	,9227470E+00
35	,680	-,8081120E-01	-,5551930E-01	,9331159E+00
36	,700	-,6926769E-01	-,4377508E-01	,9443815E+00
37	,720	-,5606321E-01	-,3099078E-01	,9564232E+00
38	,740	-,4112599E-01	-,1729678E-01	,9690984E+00
39	,760	-,2441763E-01	-,2862555E-02	,9822410E+00
40	,780	-,5934313E-02	,1210168E-01	,9956597E+00
41	,800	,1428111E-01	,2734575E-01	,1009139E+01
42	,820	,3610800E-01	,4258320E-01	,1022442E+01
43	,840	,5929800E-01	,5749784E-01	,1035316E+01
44	,860	,8341625E-01	,7175321E-01	,1047495E+01
45	,880	,1077928E+00	,8500438E-01	,1058717E+01
46	,900	,1315066E+00	,9691159E-01	,1068723E+01
47	,920	,1534210E+00	,1071547E+00	,1077276E+01
48	,940	,1722767E+00	,1154478E+00	,1084165E+01
49	,960	,1868346E+00	,1215525E+00	,1089217E+01
50	,980	,1960431E+00	,1252897E+00	,1092301E+01
51	1,000	,1991956E+00	,1265479E+00	,1093338E+01

TIJDSTIP WAAROP DE WATERSPIEGEL-VERANDERING NUL IS, : ,214

GOLF THEORIE VAN DE

***** BEREKENING PLAATSAFHANKELIJKE PARAMETERS *****

NO	Z / H0 (M)	SNELHEDEN T,P,V,		VERTIKALE		DRUKKEN T,P,V,	
		GOLFTOP	GOLFDAL	SNELHEID	GOLFDAL	GOLFTOP	GOLFDAL
1	-1,000	.1265479E+00	-.1062676E+00	0,	.5680526E=02	.1092113E+01	.8824740E+00
2	-.950	.1267235E+00	-.1063543E+00	.5680526E=02	.1137562E=01	.1042251E+01	.8323858E+00
3	-.900	.1272510E+00	-.1066142E+00	.1137562E=01	.1709988E=01	.9926643E+00	.7821213E+00
4	-.850	.1281327E+00	-.1070473E+00	.1709988E=01	.2286802E=01	.9433552E+00	.7316805E+00
5	-.800	.1293722E+00	-.1076535E+00	.2286802E=01	.2869484E=01	.8943251E+00	.6810632E+00
6	-.750	.1309748E+00	-.1084323E+00	.2869484E=01	.3459537E=01	.8459770E+00	.6302692E+00
7	-.700	.1329472E+00	-.1093835E+00	.3459537E=01	.4058481E=01	.7971143E+00	.5792984E+00
8	-.650	.1352980E+00	-.1105066E+00	.4058481E=01	.4667865E=01	.7489415E+00	.5281506E+00
9	-.600	.1380370E+00	-.1118011E+00	.4667865E=01	.5289269E=01	.7010636E+00	.4768254E+00
10	-.550	.1411762E+00	-.1132661E+00	.5289269E=01	.5924306E=01	.6534868E+00	.4253227E+00
11	-.500	.1447292E+00	-.1149009E+00	.5924306E=01	.6574631E=01	.6062176E+00	.3736421E+00
12	-.450	.1487115E+00	-.1167043E+00	.6574631E=01	.7241943E=01	.5592637E+00	.3217831E+00
13	-.400	.1531406E+00	-.1186753E+00	.7241943E=01	.7927990E=01	.5126334E+00	.2697453E+00
14	-.350	.1580364E+00	-.1208122E+00	.7927990E=01	.8634574E=01	.4663358E+00	.2175281E+00
15	-.300	.1634209E+00	-.1231133E+00	.8634574E=01	.9363555E=01	.4203806E+00	.1651308E+00
16	-.250	.1693185E+00	-.1255768E+00	.9363555E=01	.1011686E+00	.3747784E+00	.1125525E+00
17	-.200	.1757565E+00	-.1282003E+00	.1011686E+00	.1089647E+00	.3295403E+00	.5979210E=01
18	-.150	.1827648E+00	-.1309810E+00	.1089647E+00	.1126852E+00	.2846780E+00	.684780E=02
19	-.127	.1862271E+00	-.1323268E+00	.1126852E+00	.1203308E+00	.2639487E+00	.1783410E=01
20	-.080	.1935690E+00		.1203308E+00	.1282487E+00	.2226833E+00	
21	-.034	.2014793E+00		.1282487E+00	.1341418E+00	.1817698E+00	
22	0,000	.2075595E+00		.1341418E+00		.1524698E+00	
23	.013	.2099915E+00				.1412187E+00	
24	.060	.2191419E+00				.1010401E+00	
25	.106	.2289701E+00				.6124421E=01	
26	.153	.2395193E+00				.2184064E=01	
27	.199	.2508365E+00				.1716176E=01	

*** DAL ***

*** TOP ***

VARIABELEN : IUITV,REKENG,ITERO
1 11 21 31 41 51 61 71
R1314

VARIABELEN : ITERL,ITERD,EPST,EPST
1 11 21 31 41 51 61 71

VARIABELEN : FIRST
1 11 21 31 41 51 61 71
FALSE

VARIABELEN : ITSTAP,IDSTAP,CHANGE
1 11 21 31 41 51 61 71

VARIABELEN : TWGH,HGEDH,STARTL
1 11 21 31 41 51 61 71
10.5 .111

VARIABELEN : METHOD
1 11 21 31 41 51 61 71
TH1:YES TH2:YES TH4:YES

VARIABELEN : ITINTV,IDINTV
1 11 21 31 41 51 61 71
40 18

1 11 21 31 41 51 61 71
END

uitvoer: GOLVEN-2 (1 t/m 10)

BEREKENINGS-NUMMER BINNEN DE UITGEVOERDE JOB 1

CONTROLE VAN DE BEREKENINGS-GEREVENIS

T*SQRT(G/DIEPTE) = .10500E+02
 GOLFH / DIEPTE = .11100E+00
 PERIODE T = .11852E+02
 DIEPTE HU = .12500E+02
 GOLFHOOGTE H = .13875E+01

OVERZICHT VAN GEMENSTE BEREKENINGEN EN UITVOER

THEORIE NUMMER	RESULTATEN UITVOER	ITERATIE BEREKENING	** TIJDSAFH. PARAMETERS **		** PLAATSAFH. PARAMETERS **		ER WAREN JA/NEE RESULTATEN BEREKENEND
			NOG TE BEREKENEN	STAP- GROOTTE	NOG TE BEREKENEN	STAP- GROOTTE	
1	JA	JA	JA	50	JA	20	NEE
2	JA	NEE	NEE	0	NEE	0	JA
3	NEE	NEE	NEE	0	NEE	0	NEE
4	JA	JA	JA	50	JA	20	NEE
5	NEE	NEE	NEE	0	NEE	0	JA

ITERATIE OVERZICHT

ITERATIE PROCES LINEAIR

ITER. NO	AMPLITUDE PARAMETER	DIEPTE HO	GOLFLENGTE L
0	--	.1250000E+02	.2193354E+03
1	--	.1250000E+02	.7534665E+02
1	--	.1250000E+02	.1473410E+03
2	--	.1250000E+02	.1069715E+03
2	--	.1250000E+02	.1271563E+03
3	--	.1250000E+02	.1205247E+03
3	--	.1250000E+02	.1238405E+03
4	--	.1250000E+02	.1230337E+03
4	--	.1250000E+02	.1234371E+03
5	--	.1250000E+02	.1233449E+03
5	--	.1250000E+02	.1233910E+03
6	--	.1250000E+02	.1233805E+03
6	--	.1250000E+02	.1233857E+03
7	--	.1250000E+02	.1233846E+03
7	--	.1250000E+02	.1233852E+03
8	--	.1250000E+02	.1233850E+03

ITERATIE PROCES BORGMAN

ITER. NO	AMPLITUDE *L/2PI	PARAMETER NIET *L/2PI	DIEPTE D	GOLFLENGTE L
0	.1724878E+01	.4941168E-01	.1250000E+02	.2193354E+03
1	.5705524E+00	.4643997E-01	.1247180E+02	.7719399E+02
1	.5705524E+00	.4643997E-01	.1247180E+02	.1482647E+03
2	.8543454E+00	.4994894E-01	.1248125E+02	.1074700E+03
2	.8543454E+00	.4994894E-01	.1248125E+02	.1278673E+03
3	.9774874E+00	.5066512E-01	.1247971E+02	.1212221E+03
3	.9774874E+00	.5066512E-01	.1247971E+02	.1245447E+03
4	.9995813E+00	.5075848E-01	.1247934E+02	.1237341E+03
4	.9995813E+00	.5075848E-01	.1247934E+02	.1241394E+03
5	.1002312E+01	.5076936E-01	.1247929E+02	.1240455E+03
5	.1002312E+01	.5076936E-01	.1247929E+02	.1240925E+03
6	.1002628E+01	.5077061E-01	.1247928E+02	.1240816E+03
6	.1002628E+01	.5077061E-01	.1247928E+02	.1240870E+03
7	.1002665E+01	.5077075E-01	.1247928E+02	.1240858E+03
7	.1002665E+01	.5077075E-01	.1247928E+02	.1240864E+03
8	.1002669E+01	.5077077E-01	.1247928E+02	.1240863E+03

5

AANTAL ITERATIES NODIG OM DE AANGEGEVEN PARAMETER, TE VERKRIJGEN

GEWENSTE NAUWKEURIGHEID VOOR DE GOLFLENGTE L : .10000E-02

THEORIE NUMMER	GOLFLENGTE L
1	8
4	8

OVERZICHT GOLF-PARAMETERS

THEORIE NUMMER	DIEPTE D	GOLFLENGTE L	VERKREGEN VIA ITERATIE ***	***** (T.O.V. HALVE TOP	GOLFWAARDEN DAL	AFGELEIDE PARAMETERS	GOLFSNELHEID/ SAPT(G*H)	STOKES- PARAMETER S	*****
1	--	.1233850E+03	--	.1000000E+01	--	.1000000E+01	.9400765E+00	.1081503E+02	
2	--	.1240973E+03	.6834033E+00	.1130322E+01	--	.8696775E+00	.9455033E+00	.1094026E+02	
4	.1247928E+02	.1240863E+03	.1002669E+01	.1128255E+01	--	.8717451E+00	.9454191E+00	.1093831E+02	
5	.1247866E+02	.1241033E+03	--.5004047E+00	.1130869E+01	--	.8691308E+00	.9455490E+00	.1094132E+02	

LINEAIRE GOLFTHEORIE

***** BEREKENING TIJDSAFHANKELIJKE PARAMETERS *****

NO	TIJD/T	ETA	SNELHEID (Z=-H)	DRUK (Z=-H)
1	0.000	.5550000E-01	.4881062E-01	.1045886E+01
2	.020	.5506237E-01	.4842573E-01	.1045524E+01
3	.040	.5375637E-01	.4727714E-01	.1044444E+01
4	.060	.5160259E-01	.4538297E-01	.1042663E+01
5	.080	.4863502E-01	.4277307E-01	.1040210E+01
6	.100	.4490044E-01	.3948862E-01	.1037122E+01
7	.120	.4045776E-01	.3558141E-01	.1033449E+01
8	.140	.3537703E-01	.3111306E-01	.1029249E+01
9	.160	.2973839E-01	.2615404E-01	.1024587E+01
10	.180	.2363075E-01	.2078255E-01	.1019537E+01
11	.200	.1715044E-01	.1508331E-01	.1014179E+01
12	.220	.1039966E-01	.9146198E-02	.1008598E+01
13	.240	.3484874E-02	.3064844E-02	.1002881E+01
14	.260	-.3484874E-02	-.3064844E-02	.9971188E+00
15	.280	-.1039966E-01	-.9146198E-02	.9914019E+00
16	.300	-.1715044E-01	-.1508331E-01	.9858205E+00
17	.320	-.2363075E-01	-.2078255E-01	.9804628E+00
18	.340	-.2973839E-01	-.2615404E-01	.9754132E+00
19	.360	-.3537703E-01	-.3111306E-01	.9707513E+00
20	.380	-.4045776E-01	-.3558141E-01	.9665508E+00
21	.400	-.4490044E-01	-.3948862E-01	.9628777E+00
22	.420	-.4863502E-01	-.4277307E-01	.9597900E+00
23	.440	-.5160259E-01	-.4538297E-01	.9573365E+00
24	.460	-.5375637E-01	-.4727714E-01	.955559E+00
25	.480	-.5506237E-01	-.4842573E-01	.9544761E+00
26	.500	-.5550000E-01	-.4881062E-01	.9541143E+00
27	.520	-.5506237E-01	-.4842573E-01	.9544761E+00
28	.540	-.5375637E-01	-.4727714E-01	.955559E+00
29	.560	-.5160259E-01	-.4538297E-01	.9573365E+00
30	.580	-.4863502E-01	-.4277307E-01	.9597900E+00
31	.600	-.4490044E-01	-.3948862E-01	.9628777E+00
32	.620	-.4045776E-01	-.3558141E-01	.9665508E+00
33	.640	-.3537703E-01	-.3111306E-01	.9707513E+00
34	.660	-.2973839E-01	-.2615404E-01	.9754132E+00
35	.680	-.2363075E-01	-.2078255E-01	.9804628E+00
36	.700	-.1715044E-01	-.1508331E-01	.9858205E+00
37	.720	-.1039966E-01	-.9146198E-02	.9914019E+00
38	.740	-.3484874E-02	-.3064844E-02	.9971188E+00
39	.760	.3484874E-02	.3064844E-02	.1002881E+01
40	.780	.1039966E-01	.9146198E-02	.1008598E+01
41	.800	.1715044E-01	.1508331E-01	.1014179E+01
42	.820	.2363075E-01	.2078255E-01	.1019537E+01
43	.840	.2973839E-01	.2615404E-01	.1024587E+01
44	.860	.3537703E-01	.3111306E-01	.1029249E+01
45	.880	.4045776E-01	.3558141E-01	.1033449E+01
46	.900	.4490044E-01	.3948862E-01	.1037122E+01
47	.920	.4863502E-01	.4277307E-01	.1040210E+01
48	.940	.5160259E-01	.4538297E-01	.1042663E+01
49	.960	.5375637E-01	.4727714E-01	.1044444E+01
50	.980	.5506237E-01	.4842573E-01	.1045524E+01
51	1.000	.5550000E-01	.4881062E-01	.1045886E+01

TIJDSTIP WAAROP DE WATERSPIEGEL-VERANDERING NIET IS : .250

LINEAIRE GOLF THEORIE

***** BEREKENING PLAATSAFHANKELIJKE PARAMETERS *****

NO	Z / HO (M)	SNELHEDEN T.P.V.		VERTIKALE SNELHEID	DRUKKEN T.P.V.	
		GOLFTOP	GOLFDAL		GOLFTOP	GOLFDAL
1	-1.000	.4881062E-01	-.4881062E-01	U.	.1045886E+01	.9541143E+00
2	-.950	.4883534E-01	-.4883534E-01	.1553764E-02	.9959089E+00	.9040911E+00
3	-.900	.4890954E-01	-.4890954E-01	.3109102E-02	.9459787E+00	.8540213E+00
4	-.850	.4903328E-01	-.4903328E-01	.4667590E-02	.8960950E+00	.8039050E+00
5	-.800	.4920670E-01	-.4920670E-01	.6230807E-02	.8462581E+00	.7537419E+00
6	-.750	.4942997E-01	-.4942997E-01	.7800335E-02	.7964679E+00	.7035321E+00
7	-.700	.4970331E-01	-.4970331E-01	.9377766E-02	.7467249E+00	.6532751E+00
8	-.650	.5002700E-01	-.5002700E-01	.1096470E-01	.6970292E+00	.6029708E+00
9	-.600	.5040138E-01	-.5040138E-01	.1256274E-01	.6473811E+00	.5526189E+00
10	-.550	.5082681E-01	-.5082681E-01	.1417350E-01	.5977811E+00	.5022189E+00
11	-.500	.5130373E-01	-.5130373E-01	.1579862E-01	.5482294E+00	.4517706E+00
12	-.450	.5183263E-01	-.5183263E-01	.1743975E-01	.4987266E+00	.4012734E+00
13	-.400	.5241404E-01	-.5241404E-01	.1909855E-01	.4492732E+00	.3507268E+00
14	-.350	.5304854E-01	-.5304854E-01	.2077669E-01	.3998697E+00	.3001303E+00
15	-.300	.5373678E-01	-.5373678E-01	.2247588E-01	.3505167E+00	.2494833E+00
16	-.250	.5447947E-01	-.5447947E-01	.2419785E-01	.3012149E+00	.1987851E+00
17	-.200	.5527734E-01	-.5527734E-01	.2594432E-01	.2519649E+00	.1480351E+00
18	-.150	.5613121E-01	-.5613121E-01	.2771708E-01	.2027676E+00	.9723238E-01
19	-.100	.5704193E-01	-.5704193E-01	.2951791E-01	.1536238E+00	.4637622E-01
20	-.056	.5790107E-01	-.5790107E-01	.3114575E-01	.1099314E+00	.1068571E-02
21	-.033	.5834700E-01	-.5834700E-01	.3196710E-01	.8815063E-01	
22	-.011	.5880457E-01	-.5880457E-01	.3279484E-01	.6638079E-01	
23	0.000	.5903776E-01	-.5903776E-01	.3321115E-01	.5550000E-01	
24	.011	.5927389E-01	-.5927389E-01		.4462198E-01	
25	.033	.5975505E-01	-.5975505E-01		.2287431E-01	
26	.055	.6024814E-01	-.6024814E-01		.1137847E-02	

*** DAL ***

*** TOP ***

GOLFTHEORIE VAN SKJELBREIA

***** BEREKENING TIJDSAFHANKELIJKE PARAMETERS *****

NO	TIJD/T	ETA	SNELHEID (Z=-H)	DRUK (Z=-H)
1	0.000	.6273289E-01	.5266653E-01	.1048428E+01
2	.020	.6201643E-01	.5214284E-01	.1047959E+01
3	.040	.5989626E-01	.5058782E-01	.1046565E+01
4	.060	.5645797E-01	.4804878E-01	.1044284E+01
5	.080	.5183723E-01	.4460165E-01	.1041179E+01
6	.100	.4621010E-01	.4034699E-01	.1037333E+01
7	.120	.3978091E-01	.3540478E-01	.1032844E+01
8	.140	.3276876E-01	.2990842E-01	.1027826E+01
9	.160	.2539405E-01	.2399855E-01	.1022399E+01
10	.180	.1786617E-01	.1781693E-01	.1016687E+01
11	.200	.1037348E-01	.1150094E-01	.1010812E+01
12	.220	.3076064E-02	.5178977E-02	.1004890E+01
13	.240	-.3898064E-02	-.1033115E-02	.9990308E+00
14	.260	-.1045366E-01	-.7034307E-02	.9933322E+00
15	.280	-.1652602E-01	-.1273949E-01	.9878794E+00
16	.300	-.2207655E-01	-.1807950E-01	.9827448E+00
17	.320	-.2708702E-01	-.2300017E-01	.9779876E+00
18	.340	-.3155328E-01	-.2746079E-01	.9736546E+00
19	.360	-.3547938E-01	-.3143212E-01	.9697815E+00
20	.380	-.3887260E-01	-.3489420E-01	.9663941E+00
21	.400	-.4173992E-01	-.3783421E-01	.9635103E+00
22	.420	-.4408607E-01	-.4024455E-01	.9611417E+00
23	.440	-.4591286E-01	-.4212114E-01	.9592953E+00
24	.460	-.4721979E-01	-.4346210E-01	.9579748E+00
25	.480	-.4800510E-01	-.4426677E-01	.9571820E+00
26	.500	-.4826710E-01	-.4453499E-01	.9569177E+00
27	.520	-.4800510E-01	-.4426677E-01	.9571820E+00
28	.540	-.4721979E-01	-.4346210E-01	.9579748E+00
29	.560	-.4591286E-01	-.4212114E-01	.9592953E+00
30	.580	-.4408607E-01	-.4024455E-01	.9611417E+00
31	.600	-.4173992E-01	-.3783421E-01	.9635103E+00
32	.620	-.3887260E-01	-.3489420E-01	.9663941E+00
33	.640	-.3547938E-01	-.3143212E-01	.9697815E+00
34	.660	-.3155328E-01	-.2746079E-01	.9736546E+00
35	.680	-.2708702E-01	-.2300017E-01	.9779876E+00
36	.700	-.2207655E-01	-.1807950E-01	.9827448E+00
37	.720	-.1652602E-01	-.1273949E-01	.9878794E+00
38	.740	-.1045366E-01	-.7034307E-02	.9933322E+00
39	.760	-.3898064E-02	-.1033115E-02	.9990308E+00
40	.780	.3076064E-02	.5178977E-02	.1004890E+01
41	.800	.1037348E-01	.1150094E-01	.1010812E+01
42	.820	.1786617E-01	.1781693E-01	.1016687E+01
43	.840	.2539405E-01	.2399855E-01	.1022399E+01
44	.860	.3276876E-01	.2990842E-01	.1027826E+01
45	.880	.3978091E-01	.3540478E-01	.1032844E+01
46	.900	.4621010E-01	.4034699E-01	.1037333E+01
47	.920	.5183723E-01	.4460165E-01	.1041179E+01
48	.940	.5645797E-01	.4804878E-01	.1044284E+01
49	.960	.5989626E-01	.5058782E-01	.1046565E+01
50	.980	.6201643E-01	.5214284E-01	.1047959E+01
51	1.000	.6273289E-01	.5266653E-01	.1048428E+01

TIJDSTIP WAAROP DE WATERSPIEGEL-VERANDERING NIJ IS. = .229

GOLFTHEORIE VAN SKJELBREIA

***** BEREKENING PLAATSAFHANKELIJKE PARAMETERS *****

NO	Z / HU (M)	SNELHEDEN GOLFTOP	T.P.V. GOLFDAL	VERTIKALE SNELHEID	GOLFTOP	DRIKKEN GOLFDAL	T.P.V. GOLFDAL
1	-1.000	.5266653E-01	-.4453499E-01	0.	.1048428E+01	.9569177E+00	
2	-.950	.5269983E-01	-.4455200E-01	.1591471E-02	.9984583E+00	.9069009E+00	
3	-.900	.5279980E-01	-.4460302E-01	.5184782E-02	.9485478E+00	.8568506E+00	
4	-.850	.5296662E-01	-.4468807E-01	.4781777E-02	.8986972E+00	.8067668E+00	
5	-.800	.5320063E-01	-.4480713E-01	.6384307E-02	.8489067E+00	.7566495E+00	
6	-.750	.5350229E-01	-.4496020E-01	.7994230E-02	.7991766E+00	.7064986E+00	
7	-.700	.5387219E-01	-.4514729E-01	.9613417E-02	.7495075E+00	.6563142E+00	
8	-.650	.5431106E-01	-.4536839E-01	.1124376E-01	.6999000E+00	.6060962E+00	
9	-.600	.5481977E-01	-.4562350E-01	.1288715E-01	.6503548E+00	.5558447E+00	
10	-.550	.5539933E-01	-.4591262E-01	.1454553E-01	.6008726E+00	.5055597E+00	
11	-.500	.5605089E-01	-.4623572E-01	.1622084E-01	.5514544E+00	.4552411E+00	
12	-.450	.5677577E-01	-.4659282E-01	.1791507E-01	.5021013E+00	.4048890E+00	
13	-.400	.5757543E-01	-.4698388E-01	.1963023E-01	.4528145E+00	.3545033E+00	
14	-.350	.5845147E-01	-.4740890E-01	.2136836E-01	.4035952E+00	.3040841E+00	
15	-.300	.5940570E-01	-.4786786E-01	.2313156E-01	.3544448E+00	.2536314E+00	
16	-.250	.6044006E-01	-.4836072E-01	.2492195E-01	.3053650E+00	.2031452E+00	
17	-.200	.6155671E-01	-.4888746E-01	.2674172E-01	.2563575E+00	.1526256E+00	
18	-.150	.6275795E-01	-.4944803E-01	.2859310E-01	.2074240E+00	.1020725E+00	
19	-.100	.6404631E-01	-.5004240E-01	.3047836E-01	.1585667E+00	.5148610E-01	
20	-.050	.6542453E-01	-.5067051E-01	.3239985E-01	.1097876E+00	.8663847E-01	
21	-.048	.6547394E-01	-.5069288E-01	.3246713E-01	.1080984E+00	.8663847E-01	
22	-.026	.6611687E-01	-.5069288E-01	.3333312E-01	.8646745E-01	.8885898E-01	*** DAL ***
23	-.004	.6677838E-01	-.5069288E-01	.3420696E-01	.6485260E-01		
24	0.000	.6689554E-01	-.5069288E-01	.3435999E-01	.6108909E-01		
25	.018	.6745876E-01	-.5069288E-01	.3435999E-01	.4325409E-01		
26	.041	.6815830E-01	-.5069288E-01	.3435999E-01	.2167214E-01		
27	.063	.6887729E-01	-.5069288E-01	.3435999E-01	.1070018E-03		*** TOP ***

GOLFTHEORIE VAN BORGMAN=CHAPPELEAR

***** BEREKENING TIJDSAFHANKELIJKE PARAMETERS *****

NO	TIJD/T	ETA	SNELHEID (Z=-H)	DRUK (Z=-H)
1	0.000	.6261815E-01	.5221437E-01	.1048020E+01
2	.020	.6190643E-01	.5169568E-01	.1047555E+01
3	.040	.5980010E-01	.5015546E-01	.1046174E+01
4	.060	.5638357E-01	.4764047E-01	.1043914E+01
5	.080	.5179067E-01	.4422579E-01	.1040837E+01
6	.100	.4619515E-01	.4001086E-01	.1037025E+01
7	.120	.3979877E-01	.3511429E-01	.1032577E+01
8	.140	.3281803E-01	.2966804E-01	.1027604E+01
9	.160	.2547094E-01	.2381124E-01	.1022225E+01
10	.180	.1796490E-01	.1768420E-01	.1016562E+01
11	.200	.1048682E-01	.1142293E-01	.1010738E+01
12	.220	.3196024E-02	.5154598E-02	.1004866E+01
13	.240	-.3779630E-02	-.1005971E-02	.9990564E+00
14	.260	-.1034441E-01	-.6958566E-02	.9934047E+00
15	.280	-.1643260E-01	-.1261869E-01	.9879960E+00
16	.300	-.2200423E-01	-.1791759E-01	.9829022E+00
17	.320	-.2703945E-01	-.2280134E-01	.9781820E+00
18	.340	-.3153245E-01	-.2722933E-01	.9738822E+00
19	.360	-.3548565E-01	-.3117231E-01	.9700380E+00
20	.380	-.3890487E-01	-.3461021E-01	.9666755E+00
21	.400	-.4179590E-01	-.3753012E-01	.9638125E+00
22	.420	-.4416248E-01	-.3992426E-01	.9614607E+00
23	.440	-.4600576E-01	-.4178843E-01	.9596271E+00
24	.460	-.4732475E-01	-.4312061E-01	.9583157E+00
25	.480	-.4811739E-01	-.4392005E-01	.9575284E+00
26	.500	-.4838185E-01	-.4418653E-01	.9572659E+00
27	.520	-.4811739E-01	-.4392005E-01	.9575284E+00
28	.540	-.4732475E-01	-.4312061E-01	.9583157E+00
29	.560	-.4600576E-01	-.4178843E-01	.9596271E+00
30	.580	-.4416248E-01	-.3992426E-01	.9614607E+00
31	.600	-.4179590E-01	-.3753012E-01	.9638125E+00
32	.620	-.3890487E-01	-.3461021E-01	.9666755E+00
33	.640	-.3548565E-01	-.3117231E-01	.9700380E+00
34	.660	-.3153245E-01	-.2722933E-01	.9738822E+00
35	.680	-.2703945E-01	-.2280134E-01	.9781820E+00
36	.700	-.2200423E-01	-.1791759E-01	.9829022E+00
37	.720	-.1643260E-01	-.1261869E-01	.9879960E+00
38	.740	-.1034441E-01	-.6958566E-02	.9934047E+00
39	.760	-.3779630E-02	-.1005971E-02	.9990564E+00
40	.780	.3196024E-02	.5154598E-02	.1004866E+01
41	.800	.1048682E-01	.1142293E-01	.1010738E+01
42	.820	.1796490E-01	.1768420E-01	.1016562E+01
43	.840	.2547094E-01	.2381124E-01	.1022225E+01
44	.860	.3281803E-01	.2966804E-01	.1027604E+01
45	.880	.3979877E-01	.3511429E-01	.1032577E+01
46	.900	.4619515E-01	.4001086E-01	.1037025E+01
47	.920	.5179067E-01	.4422579E-01	.1040837E+01
48	.940	.5638357E-01	.4764047E-01	.1043914E+01
49	.960	.5980010E-01	.5015546E-01	.1046174E+01
50	.980	.6190643E-01	.5169568E-01	.1047555E+01
51	1.000	.6261815E-01	.5221437E-01	.1048020E+01

TIJDSTIP WAAROP DE WATERSPIEGEL-VERANDERING NIET IS. : .229

GOLFTHEORIE VAN BORGMAN-CHAPPELEAR

***** BEREKENING PLAATSAFHANKELIJKE PARAMETERS *****

NO	Z / HO (M)	SNELHEDEN GOLFTOP	T.P.V. GOLFDAL	VERTIKALE SNELHEID	Drukken GOLFTOP	T.P.V. GOLFDAL
1	-1.000	.5221437E-01	-.4418653E-01	0.	.1048020E+01	.9572659E+00
2	-.950	.5224736E-01	-.4420344E-01	.1554900E-02	.9980494E+00	.9072492E+00
3	-.900	.5234639E-01	-.4425414E-01	.3111417E-02	.9481381E+00	.8571993E+00
4	-.850	.5251165E-01	-.4433865E-01	.4671166E-02	.8982861E+00	.8071160E+00
5	-.800	.5274347E-01	-.4445696E-01	.6235768E-02	.8484937E+00	.7569995E+00
6	-.750	.5304230E-01	-.4460908E-01	.7810684E-02	.7987612E+00	.7068496E+00
7	-.700	.5340872E-01	-.4479499E-01	.9386027E-02	.7490891E+00	.6566664E+00
8	-.650	.5384347E-01	-.4501471E-01	.1097494E-01	.6994781E+00	.6064499E+00
9	-.600	.5434740E-01	-.4526823E-01	.1257523E-01	.6499287E+00	.5562001E+00
10	-.550	.5492151E-01	-.4555554E-01	.1418855E-01	.6004419E+00	.5059169E+00
11	-.500	.5556694E-01	-.4587664E-01	.1581654E-01	.5510185E+00	.4556004E+00
12	-.450	.5628498E-01	-.4623152E-01	.1746088E-01	.5016593E+00	.4052506E+00
13	-.400	.5707708E-01	-.4662016E-01	.1912323E-01	.4523662E+00	.3548674E+00
14	-.350	.5794485E-01	-.4704256E-01	.2080529E-01	.4031398E+00	.3044510E+00
15	-.300	.5889003E-01	-.4749870E-01	.2250876E-01	.3559818E+00	.2540012E+00
16	-.250	.5991458E-01	-.4798854E-01	.2423533E-01	.3048936E+00	.2035181E+00
17	-.200	.6102060E-01	-.4851206E-01	.2598674E-01	.2558771E+00	.1530018E+00
18	-.150	.6221040E-01	-.4906924E-01	.2776472E-01	.2069339E+00	.1024523E+00
19	-.100	.6348647E-01	-.4966001E-01	.2957101E-01	.1580661E+00	.5186959E-01
20	-.050	.6485149E-01	-.5028434E-01	.3140738E-01	.1092759E+00	.1253790E-02
21	-.048	.6489719E-01	-.5030510E-01	.3146734E-01	.1076983E+00	-.5848382E-03
22	-.026	.6553386E-01		.3229325E-01	.8606201E-01	
23	-.004	.6618893E-01		.3312561E-01	.6444173E-01	
24	0.000	.6630839E-01		.3327560E-01	.6056556E-01	
25	.018	.6686268E-01			.4283763E-01	
26	.040	.6755539E-01			.2124995E-01	
27	.063	.6826736E-01			-.3210878E-03	

*** DAL. ***

*** TOP ***

VARIABELEN : IUITV,REKENO,ITERO

1 11 21 31 41 51 61 71
NO-OUTPUT R1314 ITERATIE-OVERZICHT

VARIABELEN : ITERL,ITERD,EPSL,EPD

1 11 21 31 41 51 61 71

VARIABELEN : FIRST

1 11 21 31 41 51 61 71
TRUE

VARIABELEN : ITSTAP,IDSTAP,CHANGE

1 11 21 31 41 51 61 71

VARIABELEN : TWGH,HGEDH,STARTL

1 11 21 31 41 51 61 71
7.36 .326 -1.

VARIABELEN : METHOD

1 11 21 31 41 51 61 71
TH1:YES TH2:YES TH3:YES TH4:YES TH5:YES

VARIABELEN : ITINTV,IDINTV

1 11 21 31 41 51 61 71

1 11 21 31 41 51 61 71
END

uitvoer: GOLVEN-3 (1 t/m 5)

BEREKENINGS-NUMMER BINNEN DE UITGEVOERDE JOB 1

CONTROLE VAN DE BEREKENINGS-GEGEVENS

T*SORT(G/DIEPTE) = .73600E+01
 GOLFH / DIEPTE = .52600E+00
 PERIODE T = .23499E+01
 DIEPTE HU = .10000E+01
 GOLFHOOGT H = .52600E+00

OVERZICHT VAN GEWENSTE BEREKENINGEN EN UITVOER

THEORIE NUMMER	RESULTATEN UITVOER	ITERATIE HEREKENING	** TIJDSAFH. PARAMETERS **		** PLAATSAFH. PARAMETERS **		ER WAREN JA/NEE RESULTATEN BEREKEND
			NOG TE BEREKENEN	STAP- GROOTTE	NOG TE BEREKENEN	STAP- GROOTTE	
1	JA	JA	JA	50	JA	20	NEE
2	JA	JA	JA	50	JA	20	NEE
3	JA	JA	JA	50	JA	20	NEE
4	JA	JA	JA	50	JA	20	NEE
5	JA	JA	JA	50	JA	20	NEE

ITERATIE OVERZICHT

ITERATIE PROCES LINEAIR

ITER. NO	AMPLITUDE PARAMETER	DIEPTE H ₀	GOLFLENGTE L
0	--	.1000000E+01	.8621360E+01
1	--	.1000000E+01	.5365299E+01
1	--	.1000000E+01	.6993329E+01
2	--	.1000000E+01	.6168965E+01
2	--	.1000000E+01	.6581147E+01
3	--	.1000000E+01	.6396313E+01
3	--	.1000000E+01	.6488730E+01
4	--	.1000000E+01	.6448487E+01
4	--	.1000000E+01	.6468608E+01
5	--	.1000000E+01	.6459901E+01
5	--	.1000000E+01	.6464255E+01
6	--	.1000000E+01	.6462374E+01
6	--	.1000000E+01	.6463314E+01
7	--	.1000000E+01	.6462908E+01

ITERATIE PROCES SKJELBREIA

ITER. NO	AMPLITUDE PARAMETER	DIEPTE H ₀	GOLFLENGTE L
0	.1554243E+00	.1000000E+01	.6462908E+01
1	.1554243E+00	.1000000E+01	.6826548E+01
1	.1551442E+00	.1000000E+01	.6644728E+01
2	.1551442E+00	.1000000E+01	.6720089E+01
2	.1550837E+00	.1000000E+01	.6682408E+01
3	.1550837E+00	.1000000E+01	.6698335E+01
3	.1550709E+00	.1000000E+01	.6690371E+01
4	.1550709E+00	.1000000E+01	.6693751E+01
4	.1550681E+00	.1000000E+01	.6692061E+01
5	.1550681E+00	.1000000E+01	.6692779E+01

ITERATIE PROCES LAITONE

ITER. NO	AMPLITUDE PARAMETER	DIEPTE D	GOLFLENGTE L
0	.1531436E+00	.1000000E+01	.6462908E+01
1	.1529502E+00	.1003330E+01	.6638337E+01
1	.1529502E+00	.1003330E+01	.6550623E+01
2	.1529185E+00	.1003345E+01	.6657676E+01
2	.1529185E+00	.1003345E+01	.6604149E+01
3	.1528996E+00	.1003371E+01	.6669478E+01
3	.1528996E+00	.1003371E+01	.6636814E+01
4	.1528881E+00	.1003387E+01	.6676601E+01
4	.1528881E+00	.1003387E+01	.6656707E+01
5	.1528811E+00	.1003396E+01	.6680911E+01
5	.1528811E+00	.1003396E+01	.6668809E+01
6	.1528769E+00	.1003402E+01	.6683522E+01
6	.1528769E+00	.1003402E+01	.6676166E+01
7	.1528743E+00	.1003405E+01	.6685106E+01
7	.1528743E+00	.1003405E+01	.6680636E+01
8	.1528728E+00	.1003407E+01	.6686066E+01
8	.1528728E+00	.1003407E+01	.6683351E+01

9	.1528718E+00	.1003409E+01	.6686649E+01
9	.1528718E+00	.1003409E+01	.6685000E+01
10	.1528713E+00	.1003409E+01	.6687003E+01
10	.1528713E+00	.1003409E+01	.6686002E+01
11	.1528709E+00	.1003410E+01	.6687218E+01
11	.1528709E+00	.1003410E+01	.6686610E+01
12	.1528707E+00	.1003410E+01	.6687349E+01

ITERATIE PROCES BORGMAN

IT. R.	AMPLITUDE *L/2PI	PARAMETER NIET *L/2PI	DIEPTE D	GOLFLENGTE L
0	.1300806E+00	.1264633E+00	.1000000E+01	.6462908E+01
1	.1413967E+00	.1298589E+00	.9866846E+00	.6841442E+01
1	.1413967E+00	.1298589E+00	.9866846E+00	.6652175E+01
2	.1378124E+00	.1293850E+00	.9860344E+00	.6692436E+01
2	.1378124E+00	.1293850E+00	.9860344E+00	.6672305E+01
3	.1373637E+00	.1293032E+00	.9861194E+00	.6674870E+01
3	.1373637E+00	.1293032E+00	.9861194E+00	.6673587E+01
4	.1373392E+00	.1292977E+00	.9861328E+00	.6673962E+01

ITERATIE PROCES DE

I ER. N	AMPLITUDE PARAMETER	DIEPTE Q/C	GOLFLENGTE L
-1	0.	.1000000E+01	.6462908E+01
0	0.	.1000000E+01	.6463139E+01
	-.6373456E-01	.1000000E+01	.6463139E+01
1	-.6916926E-01	.9846245E+00	.6828297E+01
	-.6916926E-01	.9846245E+00	.6645718E+01
2	-.6848374E-01	.9836222E+00	.6765356E+01
	-.6848374E-01	.9836222E+00	.6705537E+01
3	-.6778758E-01	.9844575E+00	.6712077E+01
	-.6778758E-01	.9844575E+00	.6708807E+01
4	-.6762704E-01	.9848060E+00	.6700685E+01
	-.6762704E-01	.9848060E+00	.6704746E+01
5	-.6763492E-01	.9848472E+00	.6701567E+01
	-.6763492E-01	.9848472E+00	.6703157E+01
	-.6765111E-01	.9848309E+00	.6702820E+01

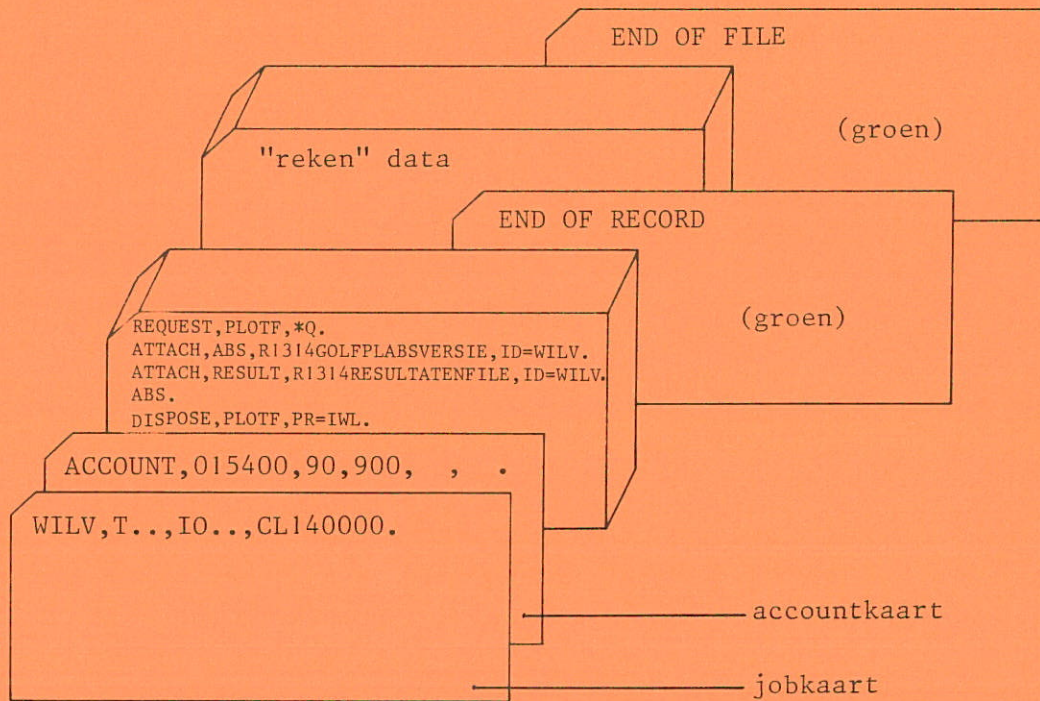
AANTAL ITERATIES NODIG OM DE AANGEGEVEN PARAMETER TE VERKRIJGEN

GEWENSTE NAUWKEURIGHEID VOOR DE GOLFLENGTE L : .10000E-02

THEORIE NUMMER	GOLFLENGTE L
1	7
2	5
3	12
4	4
5	6

OVERZICHT GOLFE-PARAMETERS

INFORM- NUMMER	DIEPTE D	*** PARAMETERS VERKRESEN VIA ITERATIE ***		*****		AFGELEIDE PARAMETERS *****		STOKES- PARAMETER S
		GOLFFRAGTE L	AMPLITUDE- PARAMETER	(T.O.V. - TOP	GOLFEWAPDEN HALVE GOLFHOOFT DAL	GOLFSNELHEID/ SGHT(G*H0)		
1	--	-0402938E+01	--	-1000000E+01	-1000000E+01	-2781125E+00	-1361675E+02	
2	--	-0692779E+01	-1550881E+00	-1214828E+01	-7851889E+00	-9093445E+00	-1460261E+02	
3	-1003610E+01	-0667549E+01	-1528707E+00	-1207170E+01	-7928296E+00	-9086072E+00	-1457894E+02	
4	-9861528E+00	-0675952E+01	-1373392E+00	-1197041E+01	-4029789E+00	-9067883E+00	-1452062E+02	
5	-9848309E+00	-0702520E+01	-6765111E+00	-1222162E+01	-7778582E+00	-9107092E+00	-1466466E+02	



SCHRYF (A4)
TWGH, HGEDH (2F1Ø.Ø)
(THEORY(I), I=1(1) NUMBTH) (9(4X, A3, 1X))
SOORT, (PLOTS(I), I=1(1) NUMBTH) (10(A6, 2X))
ALLMAX, (MAXIMA(I), I=1(1) NUMBTH) (10(A6, 2X))
REKENO, FIG (A6, 4X, I10)
PAPER, PEND1, PEND2 (3(18X, A2))

VARIABELEN : SCHRYF

1 11 21 31 41 51 61 71

VARIABELEN : TWGH,HGEDH

1 11 21 31 41 51 61 71
7.36 .326

VARIABELEN : THEORY

1 11 21 31 41 51 61 71
TH1*YES TH2*YES TH3*YES TH4*YES TH5*YES

VARIABELEN : SOORT,PLOTS

1 11 21 31 41 51 61 71

VARIABELEN : ALLMAX,MAXIMA

1 11 21 31 41 51 61 71

VARIABELEN : REKENO,FIG

1 11 21 31 41 51 61 71
R1314 8

VARIABELEN : PAPER,PEND1,PEND2

1 11 21 31 41 51 61 71

uitvoer: GOLFPL-1 (1, 2)

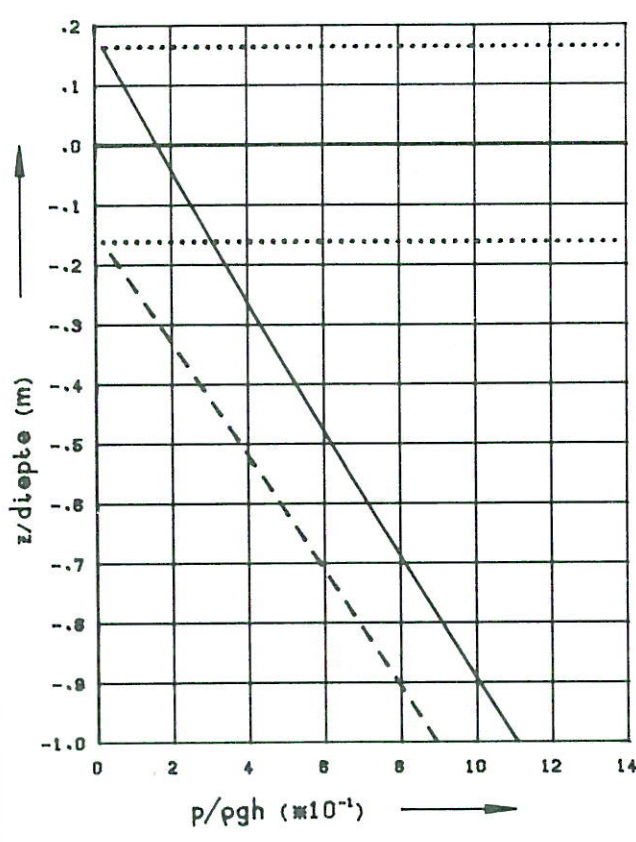
plots : GOLFPL-1 (3 t/m 12)

GOLFPARAMETERS WAARVOOR WORDT GELOT

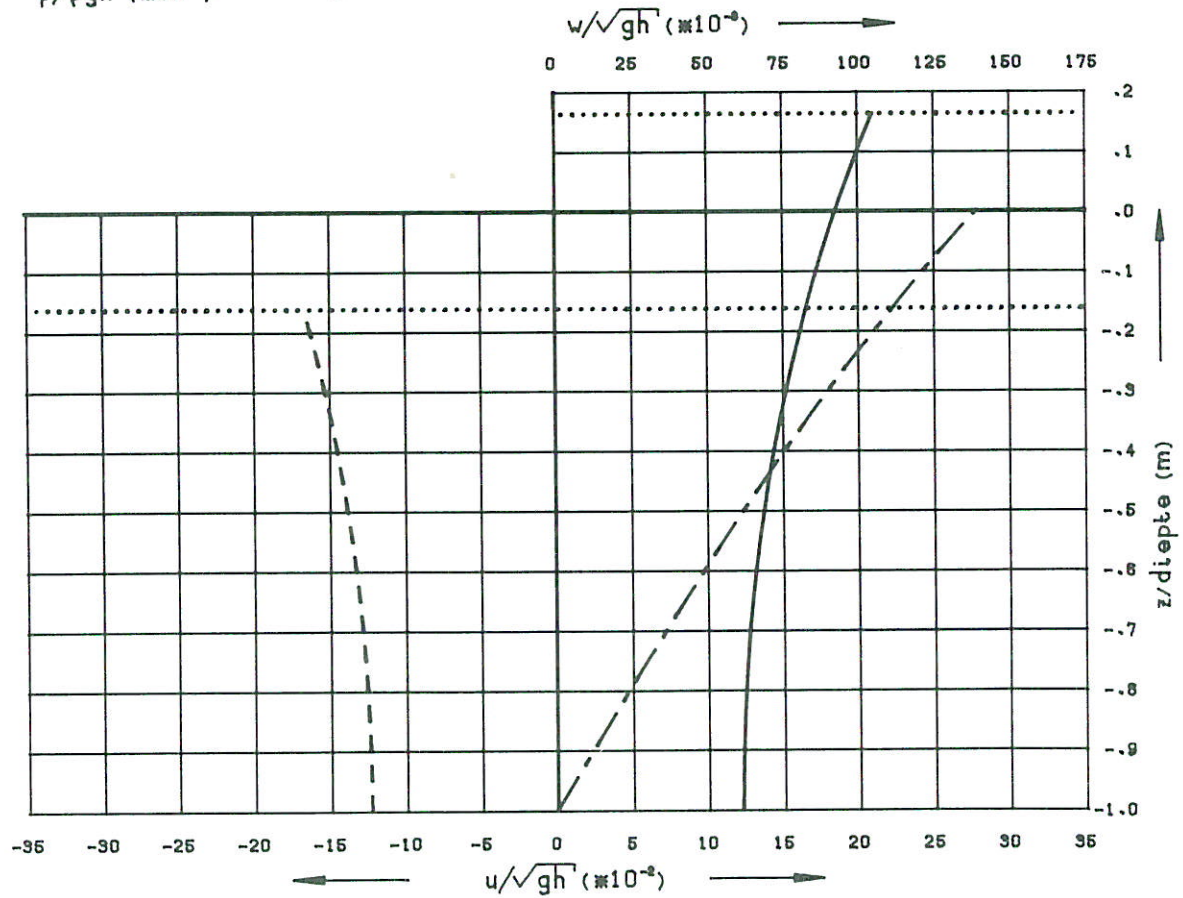
T*SQRT(G/DIEPTE) = .73600E+01
GOLFH / DIEPTE = .32600E+00
PERIODE T = .23499E+01
DIEPTE H0 = .10000E+01
GOLFHOOGTE H = .32600E+00

OVERZICHT VAN DE PLOTTEN RESULTATEN

THEORIE NUMMER	TEKENING-SOORT VARIATIE OVER PLAATS	PERIODE	GEBRUIKT MAXIMUM
1	X	X	TOTAAL
2	X	X	TOTAAL
3	X	X	TOTAAL
4	X	X	TOTAAL
5	X	X	TOTAAL



- DRUKVERLOOP ($p/\rho gh$) OF HORIZONTAAL SNELHEIDSVERLOOP (u/\sqrt{gh}) ONDER DE GOLFTOP
- - - - - DRUKVERLOOP ($p/\rho gh$) OF HORIZONTAAL SNELHEIDSVERLOOP (u/\sqrt{gh}) ONDER HET GOLFDAL
- · - · - VERTIKAAL SNELHEIDSVERLOOP (w/\sqrt{gh})
(OPM : VERTIKAAL SNELHEIDSVERLOOP KAN SAMENVALLLEN MET HORIZONTAAL SNELHEIDSVERLOOP ONDER DE GOLFTOP)
- GOLFGRENZEN (TOP EN DAL)



PLAATSAFHANKELIJKE GOLFPARAMETERS

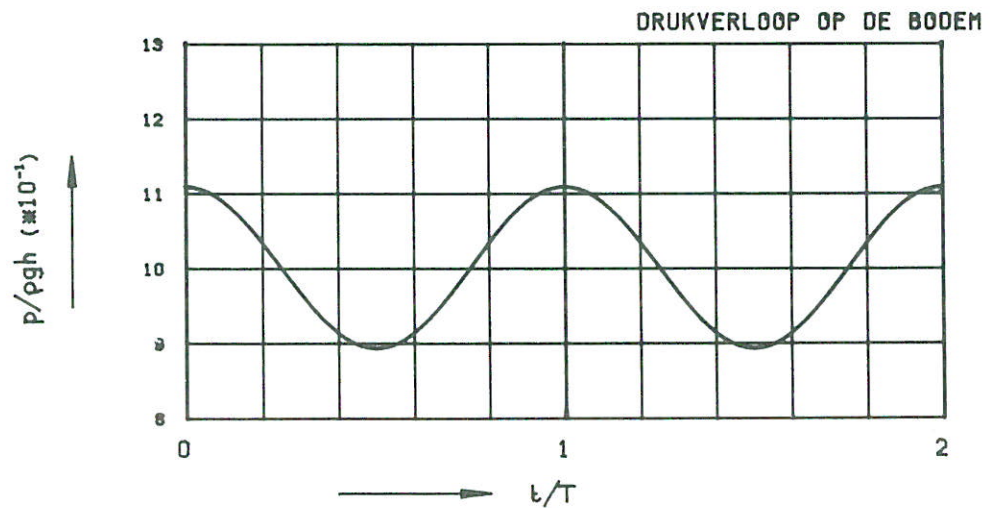
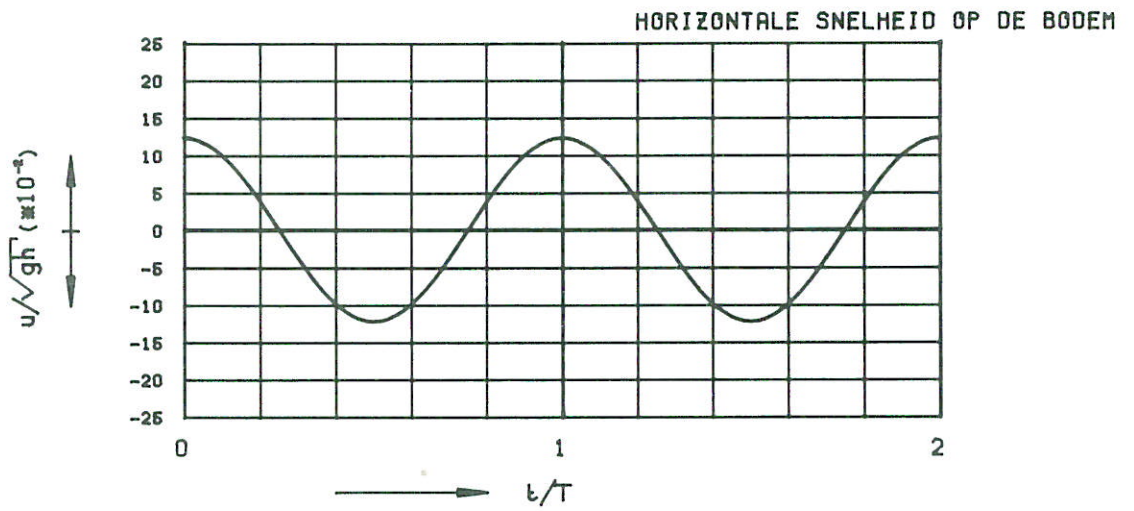
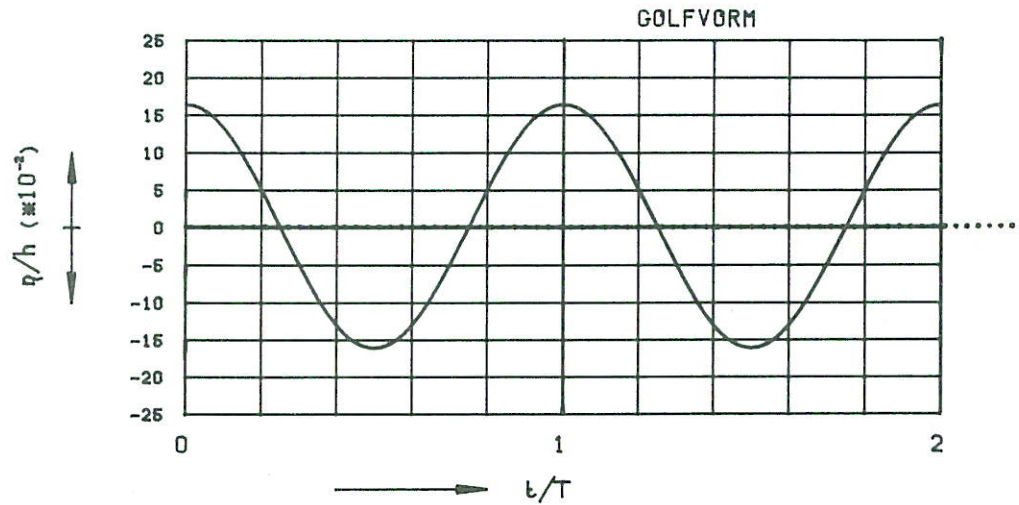
$T\sqrt{g/h} = 7.360$; $H/h = .326$

LINEAIRE GOLVEN

WATERLOOPKUNDIG LABORATORIUM

R1314

FIG.8



..... GEMIDDELDE WATERSTAND

TIJDSAFHANKELIJKE GOLFPARAMETERS

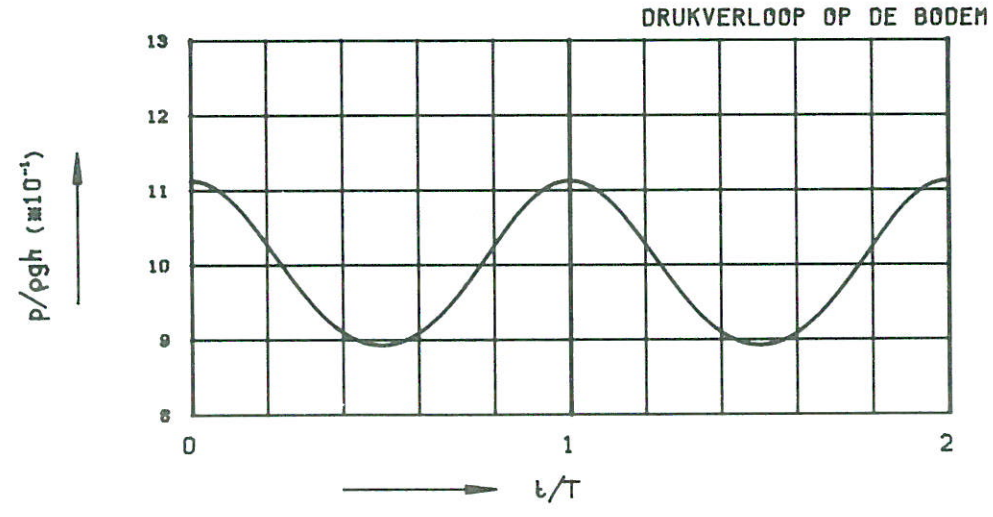
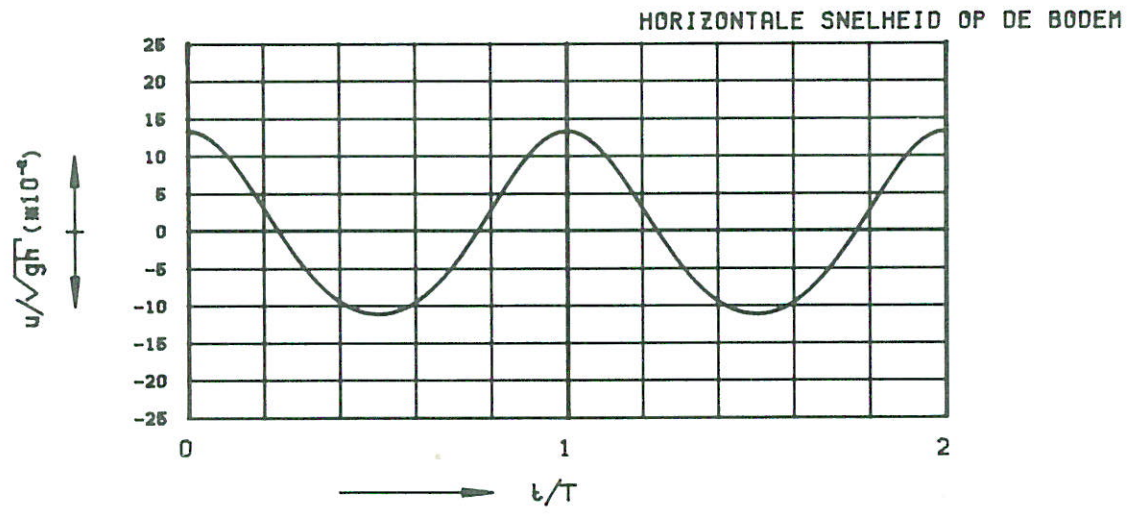
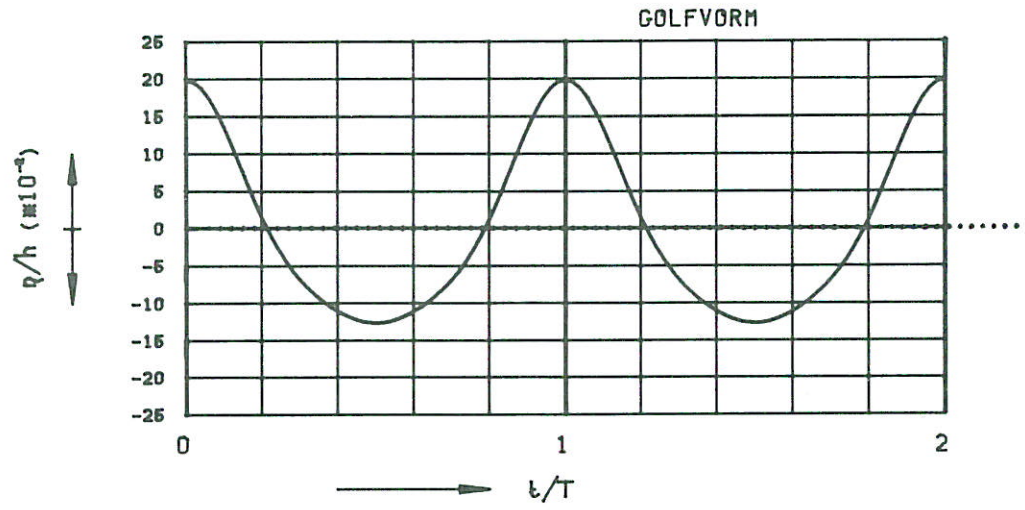
$T\sqrt{g/h} = 7.360$; $H/h = .326$

LINEAIRE GOLVEN

WATERLOOPKUNDIG LABORATORIUM

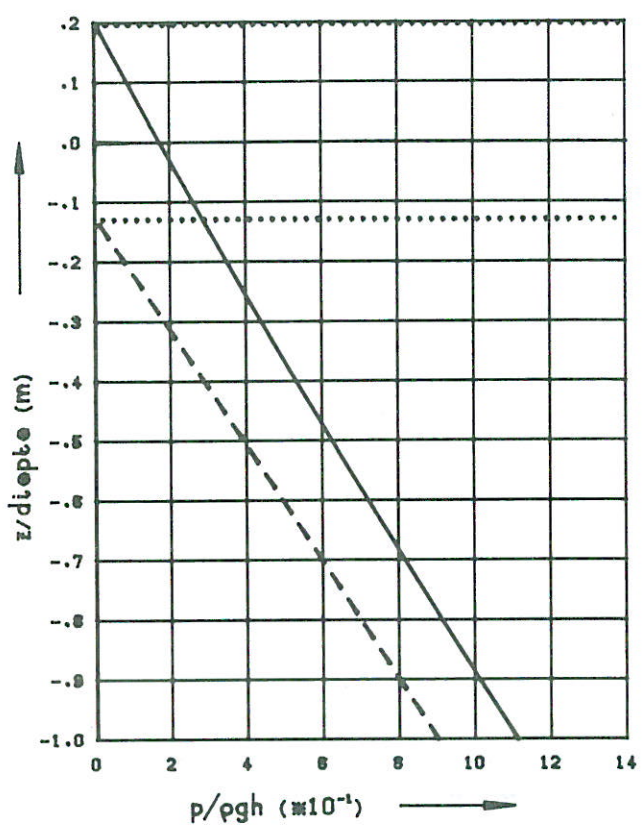
R1314

FIG.9

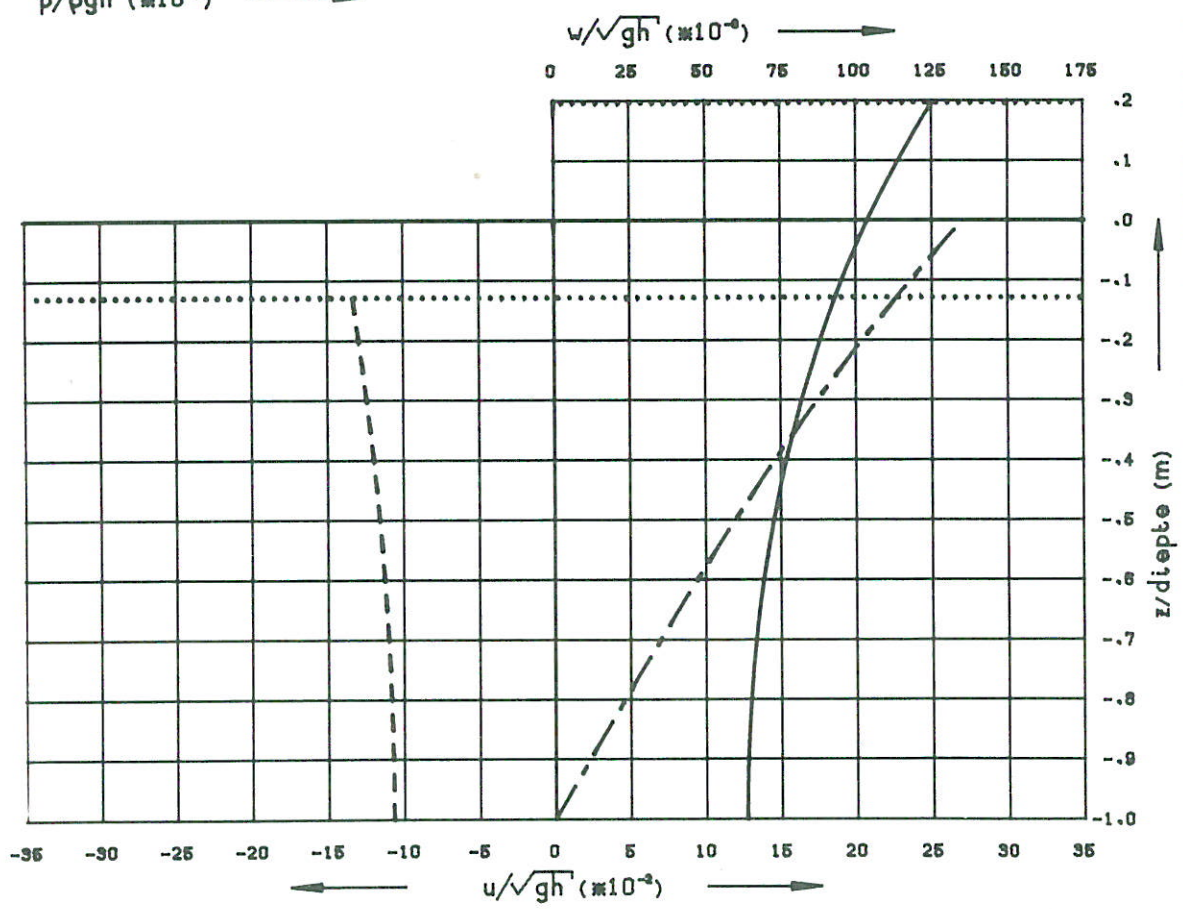


..... GEMIDDELDE WATERSTAND

TIJDSAFHANKELIJKE GOLFPARAMETERS $T\sqrt{g/h} = 7.360$; $H/h = .326$	
WATERLOOPKUNDIG LABORATORIUM	SKJELBREIA R1314 FIG.11

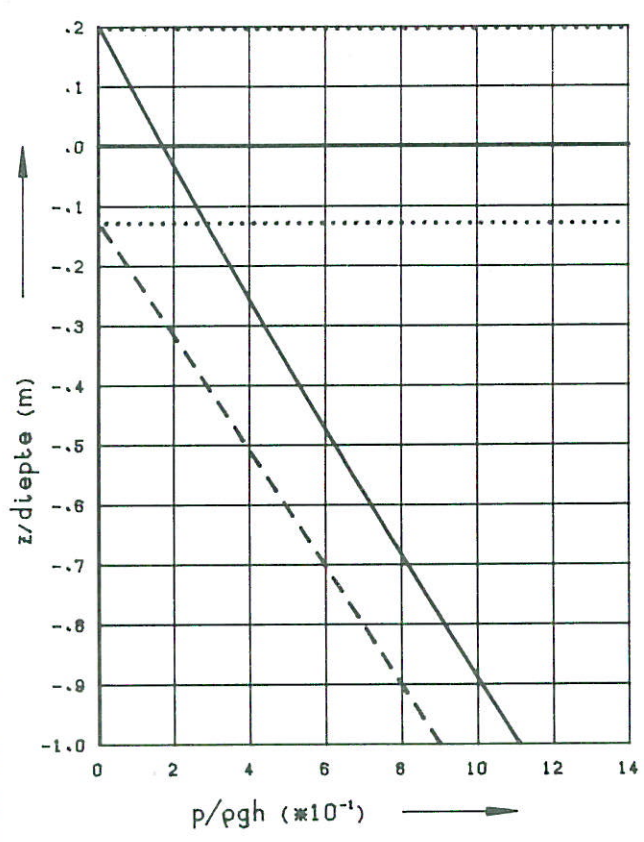


- Drukverloop ($p/\rho gh$) of horizontaal snelheidsverloop (u/\sqrt{gh}) onder de golftop
- - - Drukverloop ($p/\rho gh$) of horizontaal snelheidsverloop (u/\sqrt{gh}) onder het golfdal
- · - · VERTIKAAL SNELHEIDSVERLOOP (w/\sqrt{gh})
(OPM : VERTIKAAL SNELHEIDSVERLOOP KAN SAAMENVALLLEN MET HORIZONTAAL SNELHEIDSVERLOOP ONDER DE GOLFTOP)
- GOLFGRENZEN (TOP EN DAL)

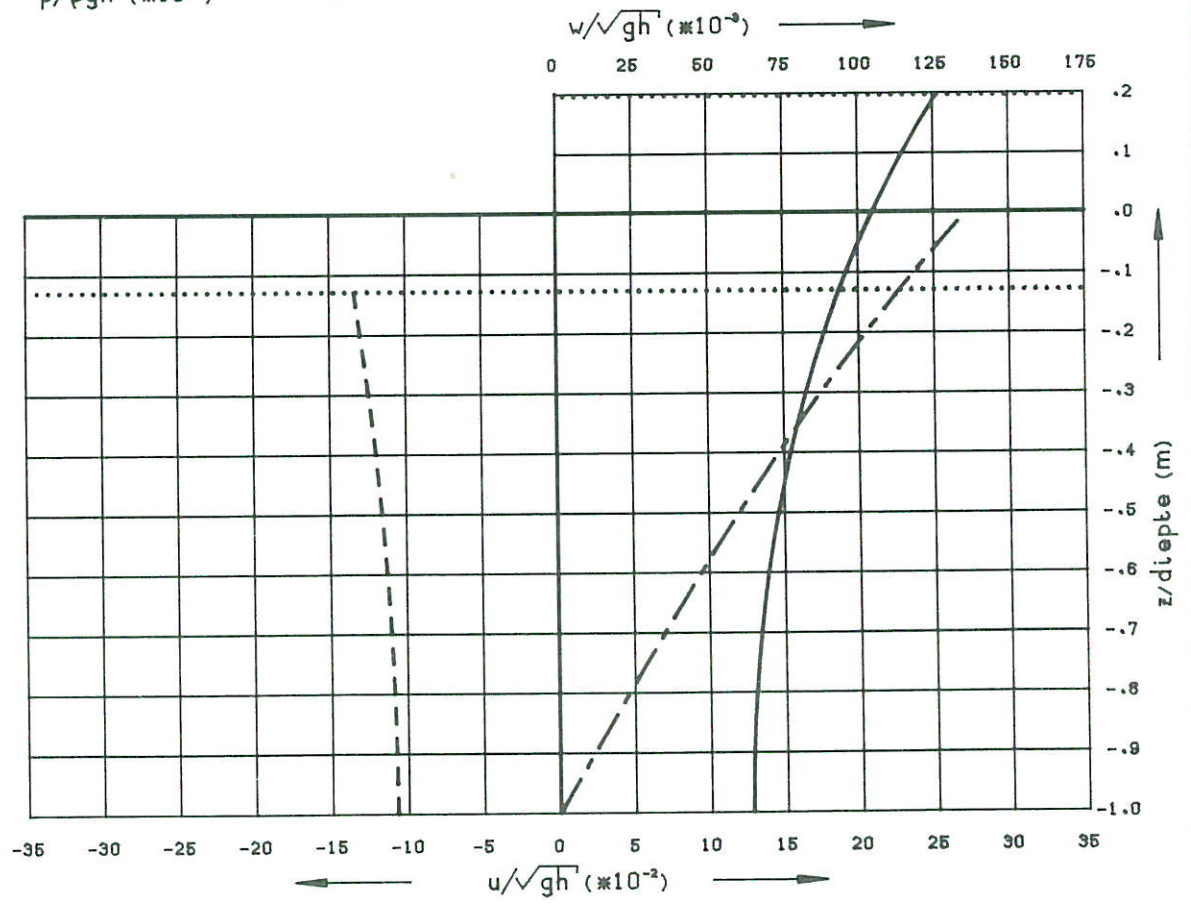


PLAATSAFHANKELIJKE GOLFPARAMETERS			
$T\sqrt{g/h} = 7.360$; $H/h = .926$		LAITONE	
WATERLOOPKUNDIG LABORATORIUM		R1314	FIG.12

77-10



- DRUKVERLOOP ($p/\rho gh$) OF HORIZONTAL SNELHEIDSVERLOOP (u/\sqrt{gh}) ONDER DE GOLFTOP
- - - - - DRUKVERLOOP ($p/\rho gh$) OF HORIZONTAL SNELHEIDSVERLOOP (u/\sqrt{gh}) ONDER HET GOLFDAL
- · - · - VERTIKAAL SNELHEIDSVERLOOP (w/\sqrt{gh})
(OPM: VERTIKAAL SNELHEIDSVERLOOP KAN SAMENVALLLEN MET HORIZONTAL SNELHEIDSVERLOOP ONDER DE GOLFTOP)
- GOLFGRENZEN (TOP EN DAL)



PLAATSAFHANKELIJKE GOLFPARAMETERS

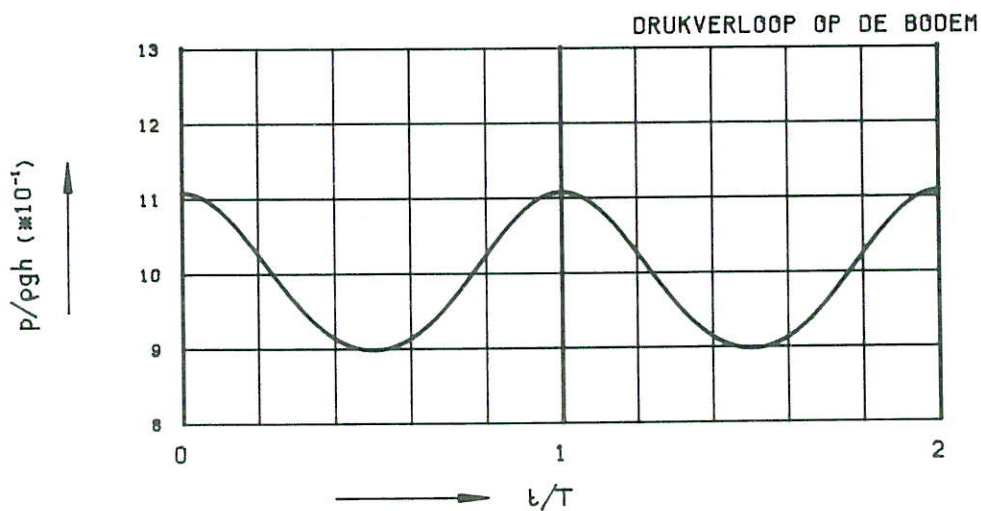
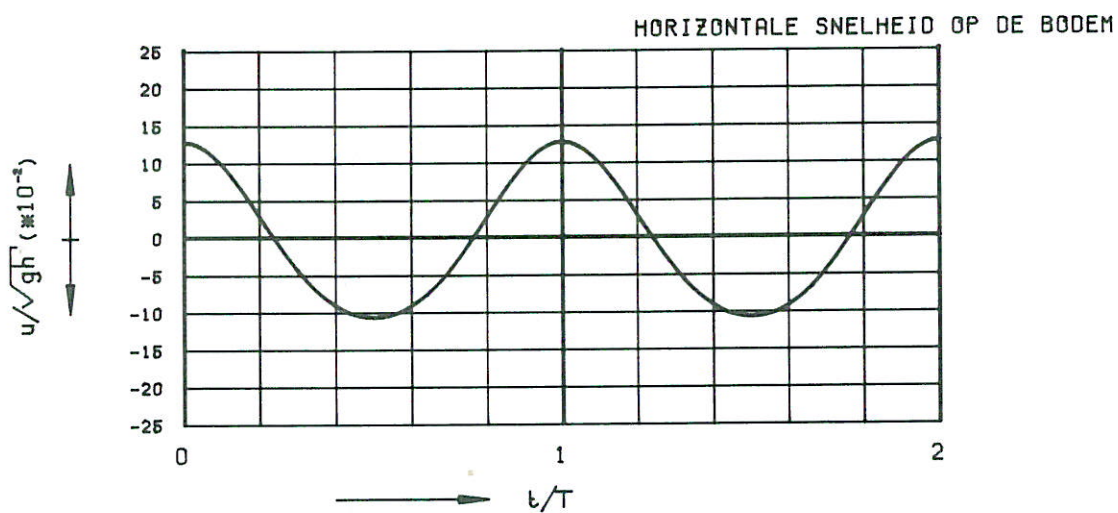
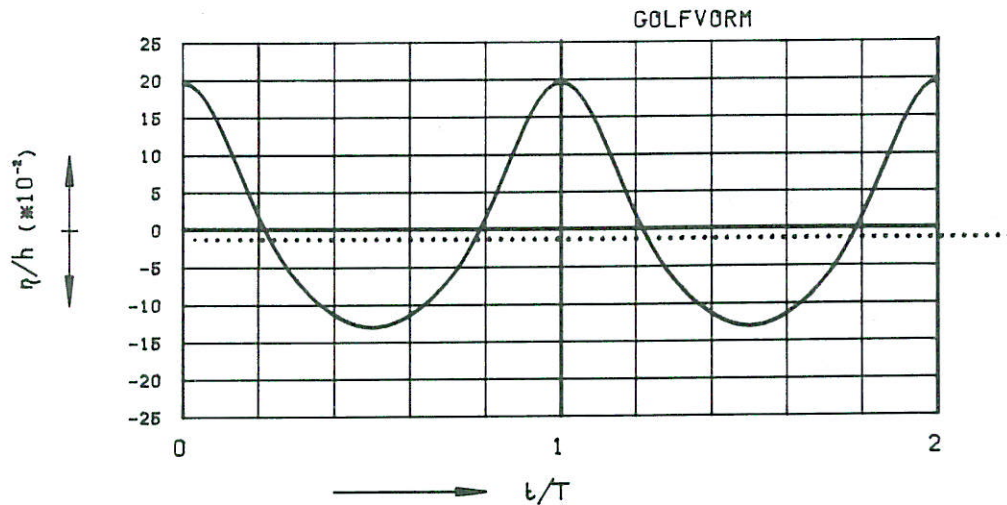
$T\sqrt{g/h} = 7.360$; $H/h = .326$

BORGMAN-CHAPPELEAR

WATERLOOPKUNDIG LABORATORIUM

R1314

FIG.14



..... GEMIDDELTE WATERSTAND

TIJDSAFHANKELIJKE GOLFPARAMETERS

$T\sqrt{g/h} = 7.360$; $H/h = .326$

BORGMAN-CHAPPELEAR

WATERLOOPKUNDIG LABORATORIUM

R1314

FIG.15

VARIABELEN : SCHRYF
1 11 21 31 41 51 61 71

VARIABELEN : TWGH.HGEDH
1 11 21 31 41 51 61 71
7.36 .326

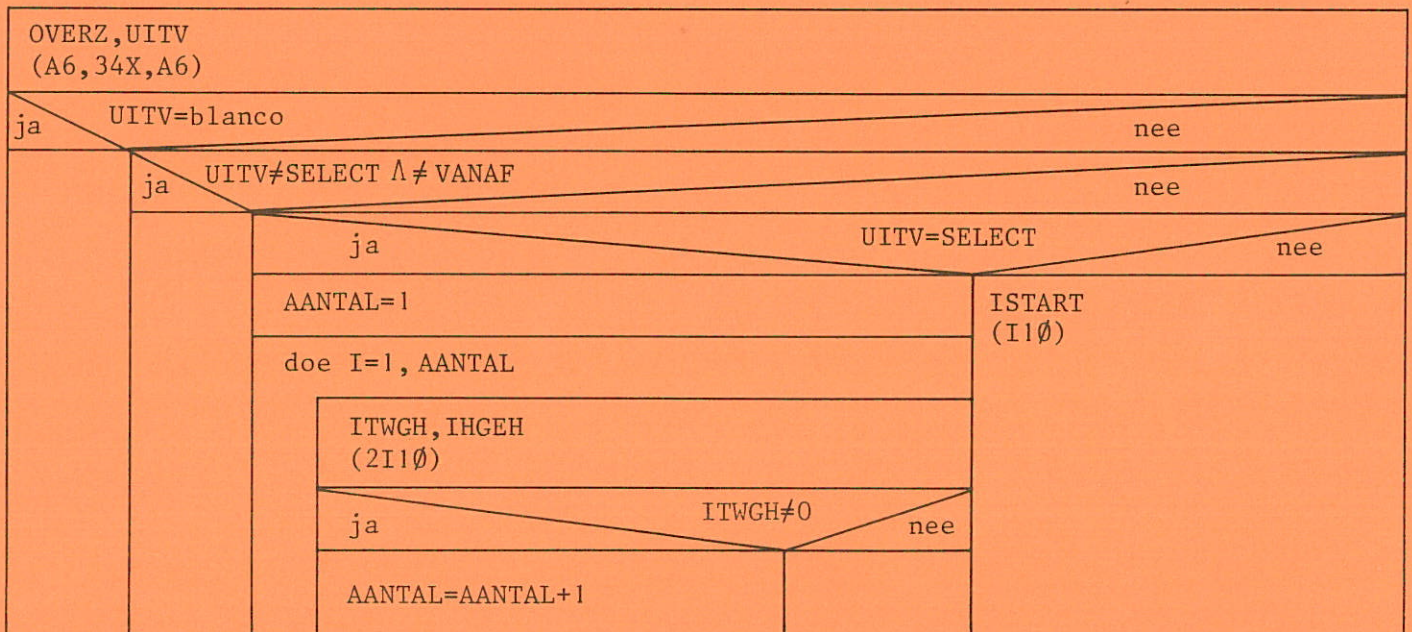
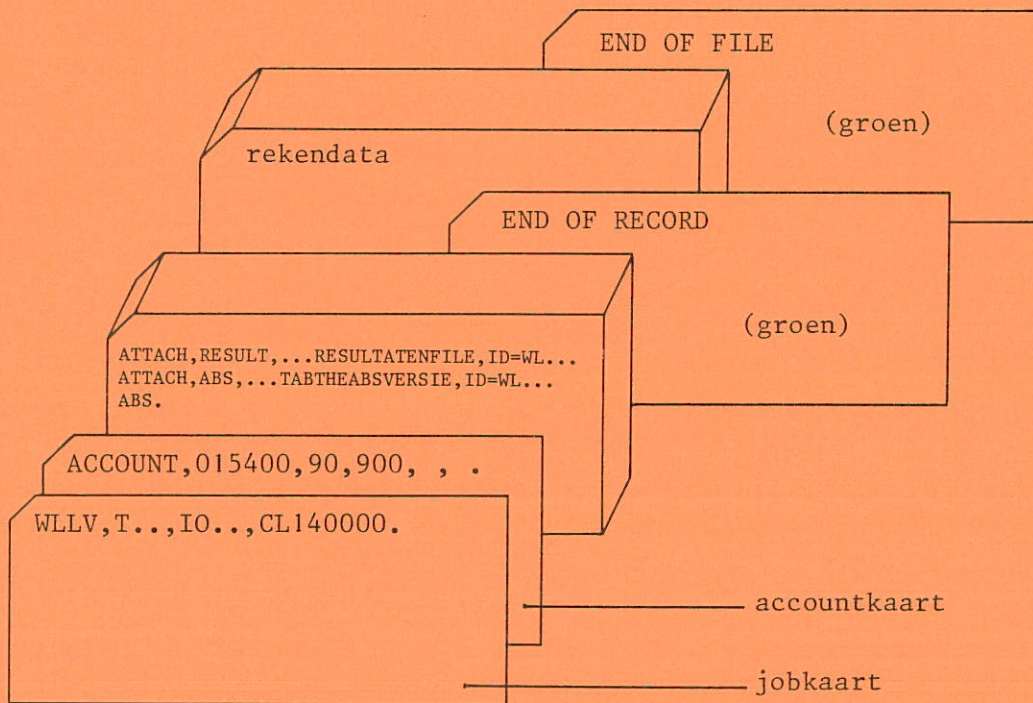
VARIABELEN : THEORY
1 11 21 31 41 51 61 71
TH1.YES TH2.YES TH3.YES TH4.YES TH5.YES

VARIABELEN : SOORT.PLOTS
1 11 21 31 41 51 61 71
TIJD PLAATS

VARIABELEN : ALLMAX.MAXIMA
1 11 21 31 41 51 61 71
EIGEN EIGEN

VARIABELEN : REKENO.FIG
1 11 21 31 41 51 61 71
R1314 8

VARIABELEN : PAPER.PEND1.PEND2
1 11 21 31 41 51 61 71



VARIABELEN • OVERZ.UITV

1	11	21	31	41	51	61	71
OVERZICHT	UITGEVOERDE	BEREKENINGEN		ALLE	BEREKENINGEN	TABELLEREN	

uitvoer: TABTHE-1 (1 t/m 4)

OVERZICHT VAN BEKEKENDE GOLF THEORIEEN VOOR COMBINATIES VAN T EN H

T/SUPT (G/H) NO	WAARDE	GOLF/H NO	WAARDE	*** BEKEKENDE 1	*** BEKEKENDE 2	*** BEKEKENDE 3	*** BEKEKENDE 4	*** BEKEKENDE 5	VOLG- NUMMER	WATER - STAND
1	.73600E+01	1	.52600E+00	X	X	X	X	X	1	1,000
2	.26210E+01	2	.72000E-01	-	X	-	-	X	2	20,000
3	.10500E+02	3	.11100E+00	X	X	-	X	X	3	12,500

GEBRUIKTE GOLF-WAARDEN

```

-----
T*SQRT(G/DIEPTE) = 7.360
GOLFH / DIEPTE = .326
PERIODE T = 2.350
DIEPTE H = 1.000
GOLFHOOGTE = .326

```

```

** PARAMETERS **

```

```

DIMENSIELOOS
T.O.V:

```

```

***** BEREKENDE WAARDEN PER GOLF-THEORIE.

```

```

*****

```

```

LINEAIR SKJELBREIA LAITONE BORGMAN= DE
CHAPPELEAR
-----

```

```

MAX. HOR.
SNELHEID
OP BODEM

```

```

SQRT (G*H)

```

```

GOLFTOP
GOLFDAL
VERHOUDING

```

```

.1228E+00 .1331E+00 .1268E+00 .1275E+00 .1265E+00
-.1228E+00 -.1121E+00 -.1073E+00 -.1076E+00 -.1063E+00
-1.000 -1.188 -1.182 -1.185 -1.191

```

```

MAX. HOR.
SNELHEID
AAN HET
OPPERVLAK

```

```

SQRT (G*H)

```

```

GOLFTOP
GOLFDAL
VERHOUDING

```

```

.2101E+00 .2632E+00 .2497E+00 .2521E+00 .2504E+00
-.1658E+00 -.1394E+00 -.1336E+00 -.1340E+00 -.1323E+00
-1.267 -1.888 -1.866 -1.881 -1.846

```

```

VERTIKALE
SNELHEID
AAN HET
OPPERVLAK

```

```

SQRT (G*H)

```

```

DIEPTE=0

```

```

.1392E+00 .1452E+00 .1352E+00 .1358E+00 .1341E+00

```

```

MAX. DRUK
OP BODEM

```

```

RHO*G*H

```

```

GOLFTOP
GOLFDAL
VERHOUDING

```

```

.1108E+01 .1112E+01 .1111E+01 .1108E+01 .1092E+01
.8921E+00 .8919E+00 .9002E+00 .8968E+00 .8825E+00
1.242 1.247 1.234 1.235 1.238

```

```

AMPLITUDE
GOLFTOP
GOLFDAL
VERHOUDING

```

```

H

```

```

.1630E+00 .1980E+00 .1968E+00 .1951E+00 .1992E+00
-.1630E+00 -.1280E+00 -.1292E+00 -.1309E+00 -.1268E+00
-1.000 -1.547 -1.523 -1.491 -1.572

```

```

GOLFLFNGTE

```

```

H

```

```

.6463E+01 .6692E+01 .6688E+01 .6674E+01 .6702E+01

```

```

GOLFSNELHEID

```

```

SQRT (G*H)

```

```

.8781E+00 .9093E+00 .9087E+00 .9067E+00 .9106E+00

```

GEBRUIKTE GOLFWAARDEN

 T*SQRT(G/DIEPTE) = 2.621
 GOLFH / DIEPTE = .072
 PERIODE T = 3.742
 DIEPTE H = 20.000
 GOLFHOOGTE = 1.440

** PARAMETERS ** DIMENSIELOOS ***** BEREKENDE WAARDEN PER GOLFTHEORIE *****
 T.O.V:

 LINEAIR SKJELBREIA LAITONE RORGMAN DE
 CHAPPELEAR

MAX. HOR. SQRT (G*H) *****
 SNELHEID
 OP BODEM
 GOLFTOP ,6724E-03
 GOLFDAL ,6724E-03
 VERHOUDING -1,000

MAX. HOR. SQRT (G*H)
 SNELHEID
 AAN HET
 OPPERVLAK
 GOLFTOP ,1058E+00
 GOLFDAL ,7106E-01
 VERHOUDING -1,490

VERTIKALE SQRT (G*H)
 SNELHEID
 AAN HET
 OPPERVLAK
 DIEPTE=0 ,8463E-01

MAX. DRUK RHO*G*H
 OP BODEM
 GOLFTOP ,1000E+01
 GOLFDAL ,9997E+00
 VERHOUDING 1,001

AMPLITUDE H
 GOLFTOP ,3948E-01
 GOLFDAL ,3252E-01
 VERHOUDING -1,214

GOLFLFNGTE H ,1135E+01
 GOLFSNELHEID SQRT (G*H) ,4332E+00

GEBRUIKTE GOLFWAARDEN

 T*SQRT(G/DIEPTE) = 10.500
 GOLFH / DIEPTE = .111
 PERIODE T = 11.852
 DIEPTE H = 12.500
 GOLFHOOGTE = 1.388

** PARAMETERS ** DIMENSIELOOS T.O.V:

***** BEREKENDE WAARDEN PER GOLFTHEORIE *****

LINEAIR SKJELBREIA LAITONE BOGMAN= DE
 CHAPPELEAR

MAX. HOR. Snelheid op bodem SQRT (G*H)

GOLFTOP .4881E+01 .5267E+01 .5221E+01 .6217E+01
 GOLFDAL -.4881E+01 -.4453E+01 -.4419E+01 -.4418E+01
 VERHOUDING -1.000 -1.183 -1.182 -1.181

MAX. HOR. Snelheid aan het oppervlak SQRT (G*H)

GOLFTOP .6025E+01 .6888E+01 .6827E+01 .6823E+01
 GOLFDAL -.5790E+01 -.5069E+01 -.5031E+01 -.5028E+01
 VERHOUDING -1.041 -1.359 -1.357 -1.357

VERTIKALE Snelheid aan het oppervlak SQRT (G*H)

DIEPTE=0 .3321E+01 .3436E+01 .3328E+01 .3295E+01

MAX. DRUK op bodem RHO*G*H

GOLFTOP .1046E+01 .1048E+01 .1048E+01 .1046E+01
 GOLFDAL .9541E+00 .9569E+00 .9573E+00 .9555E+00
 VERHOUDING 1.096 1.096 1.095 1.095

AMPLITUDE H

GOLFTOP .5550E+01 .6273E+01 .6262E+01 .6276E+01
 GOLFDAL .5550E+01 .4827E+01 .4838E+01 .4824E+01
 VERHOUDING -1.000 -1.300 -1.294 -1.301

GOLFLENGTE H

.9871E+01 .9928E+01 .9927E+01 .9928E+01

GOLFSNELHEID SQRT (G*H)

.9401E+00 .9455E+00 .9454E+00 .9455E+00

