Hydro-morphological study
Tagus Estuary

Extra work I and III
Quantitative morphological calculations

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In our reports on the influences of the various alternatives of the Bugio terminal, the results of the morphological calculations are presented qualitatively only, because at that moment the final calibration of the sediment transport formula was not ready. In the mean time this work is done (see volume 3.1 of the main study) and now it is possible to quantity the above mentioned morphological calculations.

In fig. 1 the present day siltation is presented.

In fig. 2, 4, 6, 8 and 10 the siltation for each alternative is given while in fig. 3, 5, 7, 9 and 11 the differences in siltation between the existing siltation and the new situation are given.

For a qualitative discussion can still be referred to our reports on extra work I and extra work III.
Existing situation

scale 1 : 100000
- erosion of 250 cm or more
- erosion of 125 cm
- sedimentation of 250 cm or more
- sedimentation of 125 cm
Dredged channel only (alternative 1)

scale 1 : 100000
- erosion of 250 cm or more
- erosion of 125 cm
- sedimentation of 250 cm or more
- sedimentation of 125 cm
difference in siltation, alt. 1

scale 1:1000000
- erosion of 100 cm or more
- erosion of 50 cm
- sedimentation of 100 cm or more
- sedimentation of 50 cm

fig. 3
difference in siltation, alt. 2

scale 1: 100000
- erosion of 100 cm or more
- erosion of 50 cm
- sedimentation of 100 cm or more
- sedimentation of 50 cm
East terminal (alternative 3)

scale 1 : 100000
- erosion of 250 cm or more
- erosion of 125 cm
- sedimentation of 250 cm or more
- sedimentation of 125 cm
difference in siltation, alt. 3

scale 1 : 100000
- erosion of 100 cm or more
- erosion of 50 cm
- sedimentation of 100 cm or more
- sedimentation of 50 cm
Middle terminal without connection (alt. 4)

scale 1 : 100000
- erosion of 250 cm or more
- erosion of 125 cm
- sedimentation of 250 cm or more
- sedimentation of 125 cm
differences in siltation, alt. 4

scale 1 : 100000
- erosion of 100 cm or more
- erosion of 50 cm
- sedimentation of 100 cm or more
- sedimentation of 50 cm
Middle terminal with connection (alt. 5)

scale 1 : 100000
- erosion of 250 cm or more
- erosion of 125 cm
- sedimentation of 250 cm or more
- sedimentation of 125 cm
difference in siltation, alt. 5

scale 1:100000
- erosion of 100 cm or more
- erosion of 50 cm
- sedimentation of 100 cm or more
- sedimentation of 50 cm

fig. 11