

XBeach skillbed cartoon

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XBeach skillbed cartoon

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Chapter 1

Binary "netcdf"

1.1 Type "custom"

1.1.1 Test "1953_storm_surge"

1.1.1.1 Run "default"

1.1.2 Test "1976_storm_surge"

1.1.2.1 Run "raai3400"

1.1.2.2 Run "raai568"

1.1.2.3 Run "raai6050"

1.1.3 Test "Assateague_Island"

1.1.4 Test "Boers_1C"

1.1.4.1 Run "default"

1.1.5 Test "CarrierGreenspan"

1.1.5.1 Run "default"

1.1.6 Test "Curvi_Island"

1.1.6.1 Run "default"

1.1.7 Test "Delilah_199010131000"

1.1.7.1 Run "default"

1.1.8 Test "Deltaflume2006"

1.1.8.1 Run "DP01"

1.1.8.2 Run "DP02"

1.1.8.3 Run "T01"

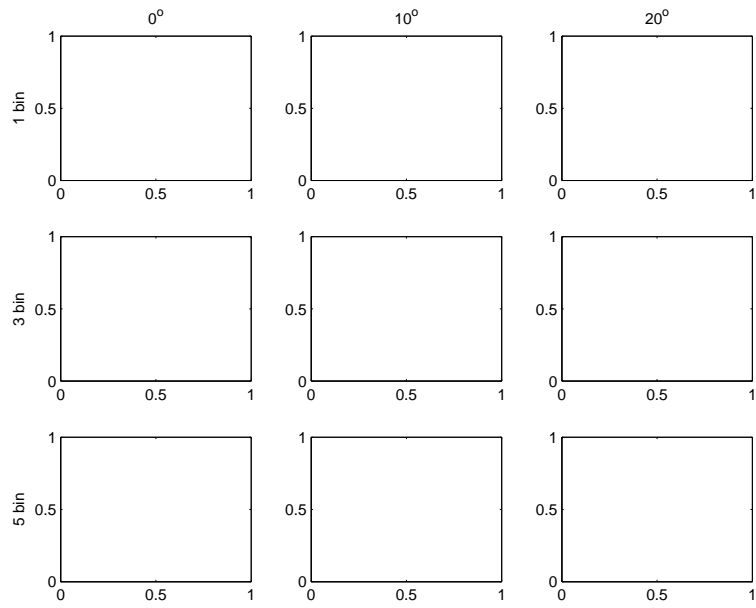


Figure 1.2

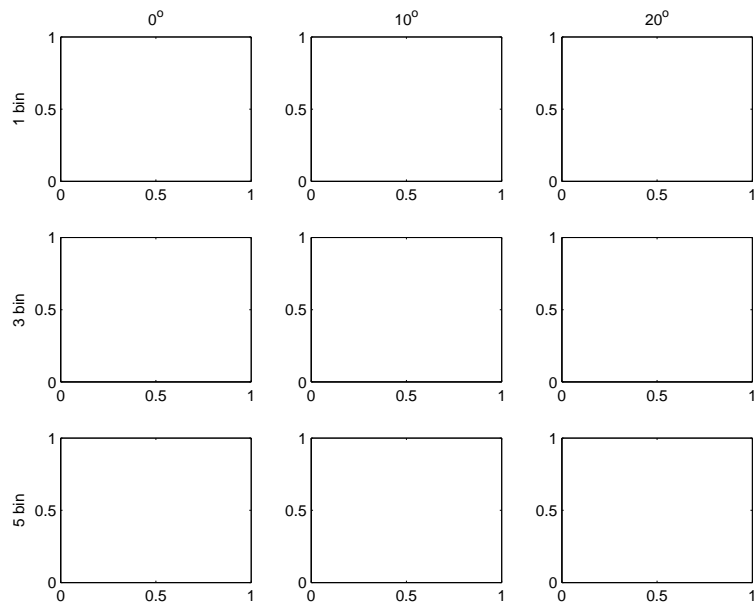


Figure 1.3

1.1.21 Test "longcrested_refraction2"

1.1.22 Test "long_wave_propagation"

1.1.22.1 Run "default"

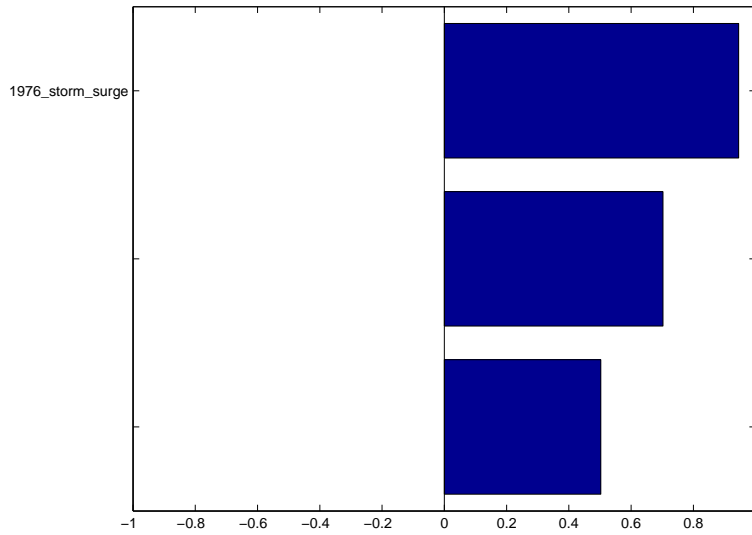


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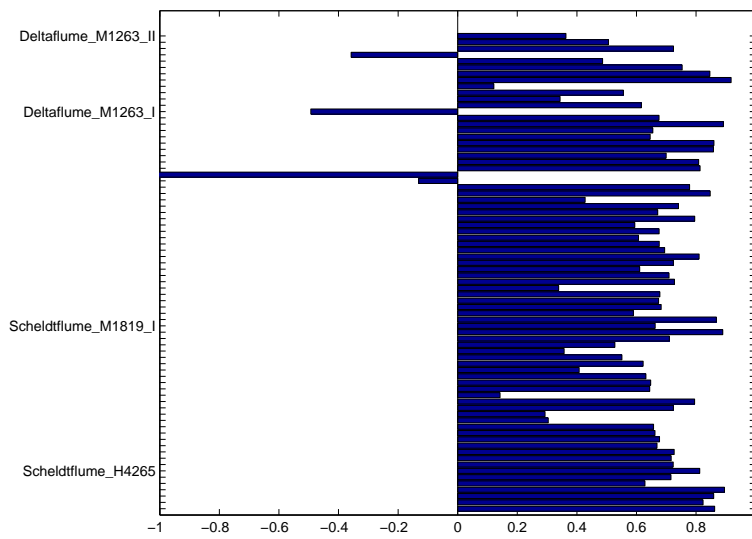


Figure 1.5

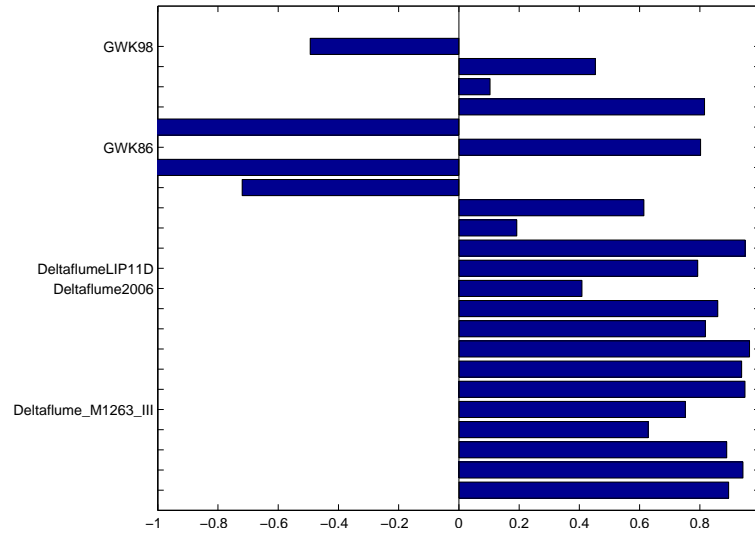


Figure 1.6

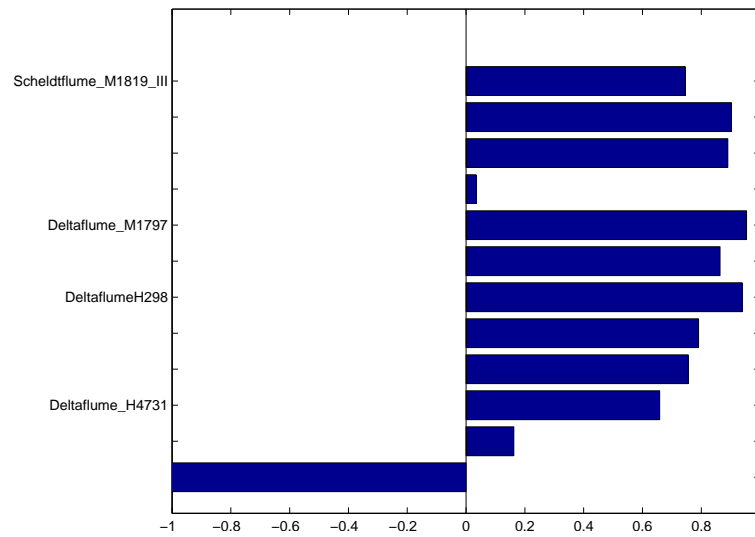


Figure 1.7

Table 1.1: Brier Skill Score comparison between WTI2017 and previous Easter release.

| Test name | BSS Easter release | Current BSS | Difference |
|-----------------------------|--------------------|-------------|------------|
| Deltaflume M1263 III Test-1 | 0.89 | 0.90 | 0.01 |
| Test-2 | 0.95 | 0.94 | -0.01 |
| Test-3 | 0.87 | 0.89 | 0.02 |
| Test-4 | 0.64 | 0.63 | -0.01 |
| Test-5 | 0.98 | 0.75 | -0.23 |
| Deltaflume2006 T01 | 0.95 | 0.95 | -0.00 |
| T02 | 0.94 | 0.94 | -0.00 |
| T03 | 0.96 | 0.96 | 0.00 |
| T04 | 0.80 | 0.82 | 0.02 |
| DP01 | 0.86 | 0.86 | -0.00 |
| DP02 | 0.40 | 0.41 | 0.01 |
| DeltaflumeLIP11D 2E | 0.84 | 0.79 | -0.05 |
| GWK86 T01 | | 0.95 | |
| T02 | | 0.19 | |
| T03 | | 0.61 | |
| T04 | | -0.72 | |
| T05 | | -3.00 | |
| T06 | | 0.80 | |
| GWK98 A9 | | -1.15 | |
| B2 | | 0.82 | |
| C2 | | 0.10 | |
| F1 | | 0.45 | |
| H2 | | -0.49 | |
| Scheldtflume H4265 T01 | | 0.86 | |
| T02 | | 0.82 | |
| T02a | | 0.86 | |
| T03 | | 0.90 | |
| T11 | | 0.63 | |
| T12 | | 0.72 | |
| T13 | | 0.81 | |
| Scheldtflume M1819 I T01 | | 0.72 | |
| T02 | | 0.72 | |
| T03 | | 0.73 | |
| T04 | | 0.67 | |
| T05 | | 0.68 | |
| T06 | | 0.66 | |
| T07 | | 0.66 | |
| T08 | | 0.30 | |
| T09 | | 0.29 | |
| T10 | | 0.72 | |
| T11 | | 0.80 | |
| T12 | | 0.14 | |
| T13 | | 0.64 | |
| T14 | | 0.65 | |
| T21 | | 0.63 | |
| T22 | | 0.41 | |
| T23 | | 0.62 | |
| T24 | | 0.55 | |
| T25 | | 0.36 | |
| T26 | | 0.53 | |
| T27 | | 0.71 | |
| T28 | | 0.89 | |

1.1.23 Test "MICORE_Cadiz_Urban_Beach"

1.1.23.1 Run "north"

1.1.24 Test "MICORE_Dziwnow_Spit"

1.1.24.1 Run "386"

1.1.25 Test "MICORE_Kamchia_Shkorpilovtsi_Beach"

1.1.25.1 Run "pr04"

1.1.26 Test "MICORE_Lido_di_Dante"

1.1.26.1 Run "mar2010_MN17"

1.1.27 Test "MICORE_Mariakerke_and_Ostend_Beach"

1.1.27.1 Run "s116a"

1.1.28 Test "MICORE_Praia_de_Faro"

1.1.28.1 Run "event9"

1.1.29 Test "Netcdf"

1.1.29.1 Run "default"

1.1.30 Test "Ningaloo_reef"

1.1.30.1 Run "default"

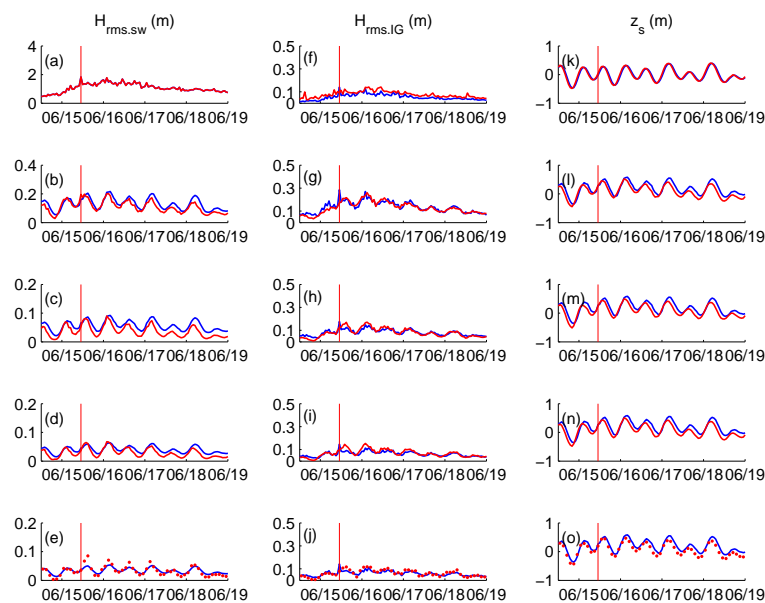


Figure 1.8

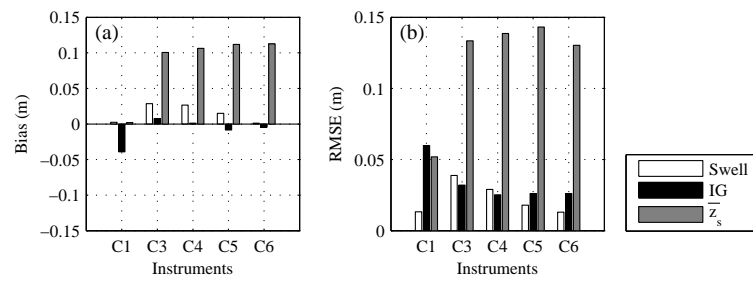


Figure 1.9

1.1.31 Test "River_Outflow"**1.1.31.1 Run "default"****1.1.32 Test "Scheldtflume_H4265"****1.1.32.1 Run "T01"****1.1.32.2 Run "T02"****1.1.32.3 Run "T02a"****1.1.32.4 Run "T03"****1.1.32.5 Run "T11"****1.1.32.6 Run "T12"****1.1.32.7 Run "T13"****1.1.33 Test "Scheldtflume_M1819_I"****1.1.33.1 Run "T01"****1.1.33.2 Run "T02"****1.1.33.3 Run "T03"****1.1.33.4 Run "T04"****1.1.33.5 Run "T05"****1.1.33.6 Run "T06"****1.1.33.7 Run "T07"****1.1.33.8 Run "T08"****1.1.33.9 Run "T09"****1.1.33.10 Run "T10"****1.1.33.11 Run "T11"****1.1.33.12 Run "T12"****1.1.33.13 Run "T13"****1.1.33.14 Run "T14"****1.1.33.15 Run "T21"****1.1.33.16 Run "T22"****1.1.33.17 Run "T23"**

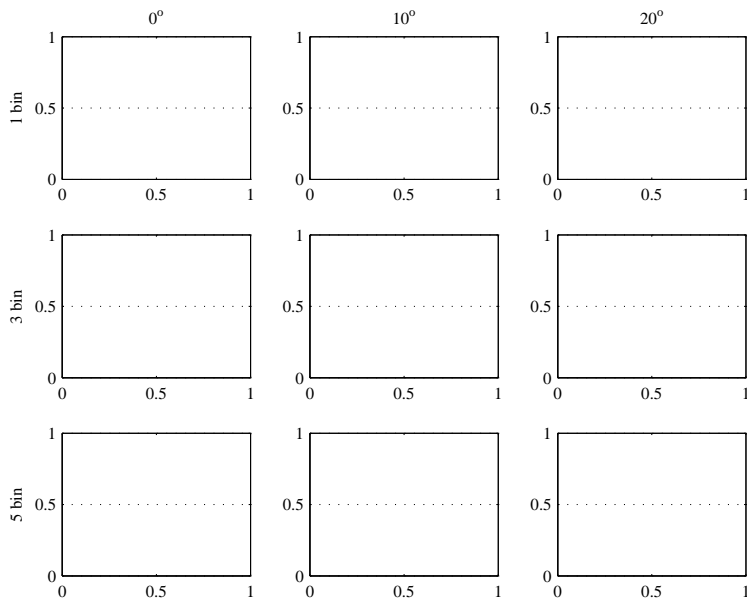


Figure 1.11

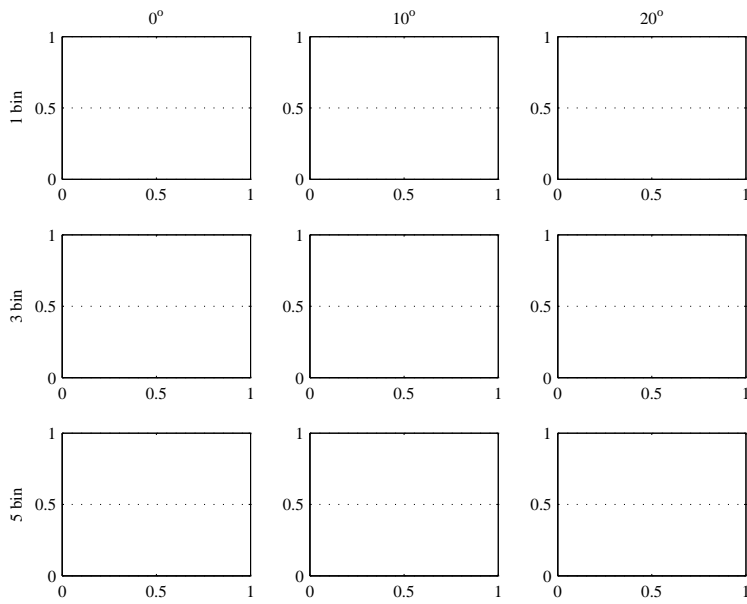


Figure 1.12

1.2.21 Test "longcrested_refraction2"

1.2.22 Test "long_wave_propagation"

1.2.22.1 Run "default"

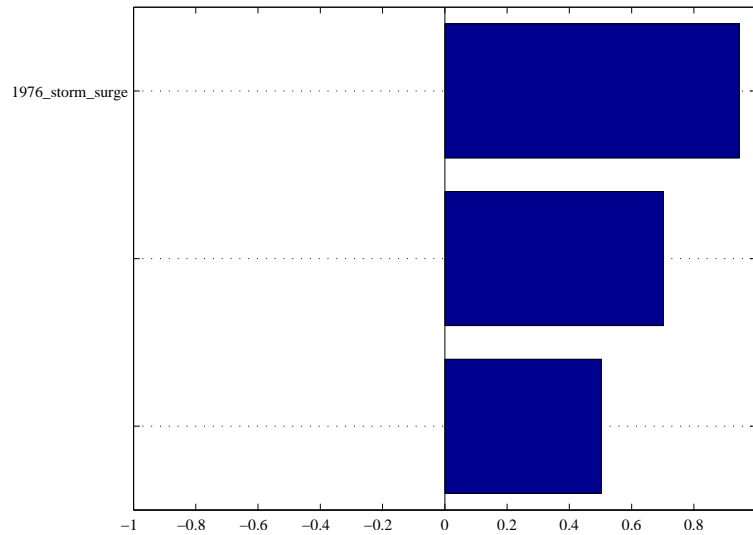


Figure 1.13

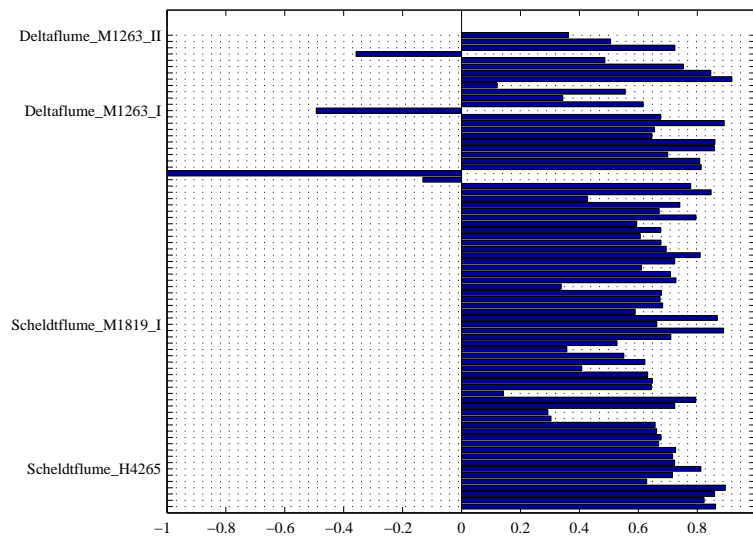


Figure 1.14

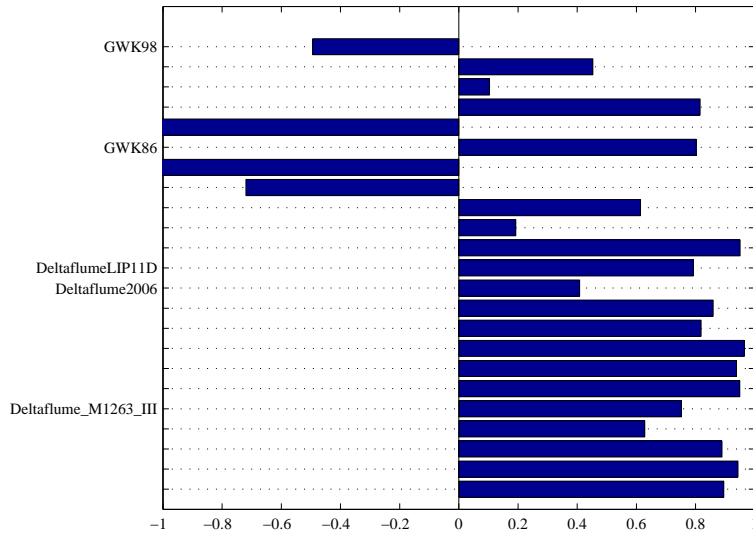


Figure 1.15

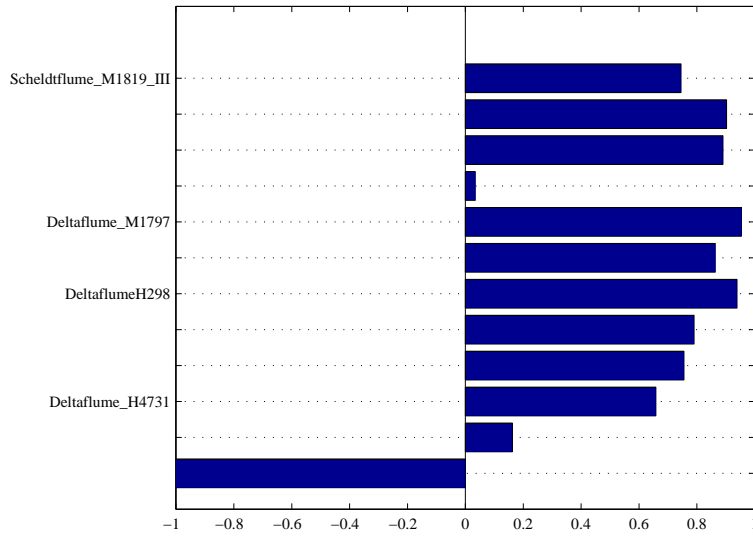


Figure 1.16

Table 1.2: Brier Skill Score comparison between WTI2017 and previous Easter release.

| Test name | BSS Easter release | Current BSS | Difference |
|-----------------------------|--------------------|-------------|------------|
| Deltaflume M1263 III Test-1 | 0.89 | 0.90 | 0.01 |
| Test-2 | 0.95 | 0.94 | -0.01 |
| Test-3 | 0.87 | 0.89 | 0.02 |
| Test-4 | 0.64 | 0.63 | -0.01 |
| Test-5 | 0.98 | 0.75 | -0.23 |
| Deltaflume2006 T01 | 0.95 | 0.95 | -0.00 |
| T02 | 0.94 | 0.94 | -0.00 |
| T03 | 0.96 | 0.96 | 0.00 |
| T04 | 0.80 | 0.82 | 0.02 |
| DP01 | 0.86 | 0.86 | -0.00 |
| DP02 | 0.40 | 0.41 | 0.01 |
| DeltaflumeLIP11D 2E | 0.84 | 0.79 | -0.05 |
| GWK86 T01 | | 0.95 | |
| T02 | | 0.19 | |
| T03 | | 0.61 | |
| T04 | | -0.72 | |
| T05 | | -3.00 | |
| T06 | | 0.80 | |
| GWK98 A9 | | -1.15 | |
| B2 | | 0.82 | |
| C2 | | 0.10 | |
| F1 | | 0.45 | |
| H2 | | -0.49 | |
| Scheldtflume H4265 T01 | | 0.86 | |
| T02 | | 0.82 | |
| T02a | | 0.86 | |
| T03 | | 0.90 | |
| T11 | | 0.63 | |
| T12 | | 0.72 | |
| T13 | | 0.81 | |
| Scheldtflume M1819 I T01 | | 0.72 | |
| T02 | | 0.72 | |
| T03 | | 0.73 | |
| T04 | | 0.67 | |
| T05 | | 0.68 | |
| T06 | | 0.66 | |
| T07 | | 0.66 | |
| T08 | | 0.30 | |
| T09 | | 0.29 | |
| T10 | | 0.72 | |
| T11 | | 0.80 | |
| T12 | | 0.14 | |
| T13 | | 0.64 | |
| T14 | | 0.65 | |
| T21 | | 0.63 | |
| T22 | | 0.41 | |
| T23 | | 0.62 | |
| T24 | | 0.55 | |
| T25 | | 0.36 | |
| T26 | | 0.53 | |
| T27 | | 0.71 | |
| T28 | | 0.89 | |

1.2.23 Test "MICORE_Cadiz_Urban_Beach"

1.2.23.1 Run "north"

1.2.24 Test "MICORE_Dziwnow_Spit"

1.2.24.1 Run "386"

1.2.25 Test "MICORE_Kamchia_Shkorpilovtsi_Beach"

1.2.25.1 Run "pr04"

1.2.26 Test "MICORE_Lido_di_Dante"

1.2.26.1 Run "mar2010_MN17"

1.2.27 Test "MICORE_Mariakerke_and_Ostend_Beach"

1.2.27.1 Run "s116a"

1.2.28 Test "MICORE_Praia_de_Faro"

1.2.28.1 Run "event9"

1.2.29 Test "Netcdf"

1.2.29.1 Run "default"

1.2.30 Test "Ningaloo_reef"

1.2.30.1 Run "default"

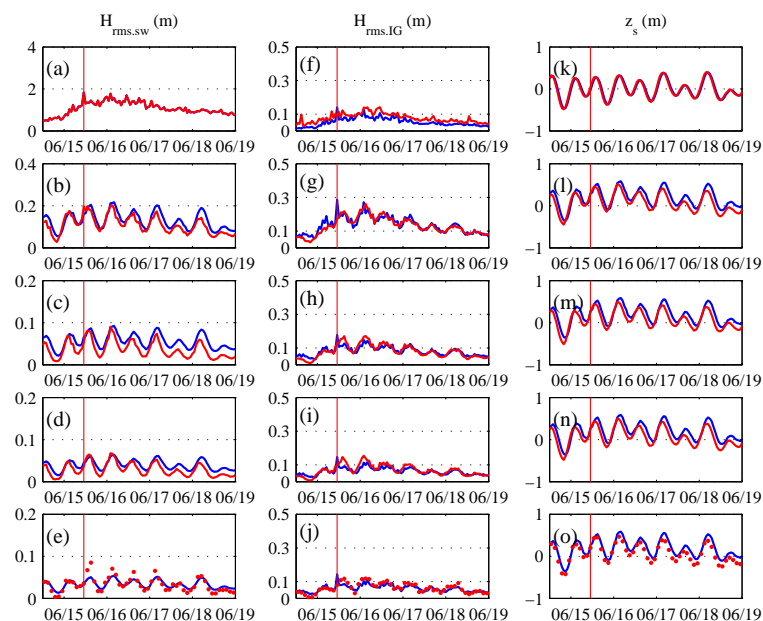


Figure 1.17

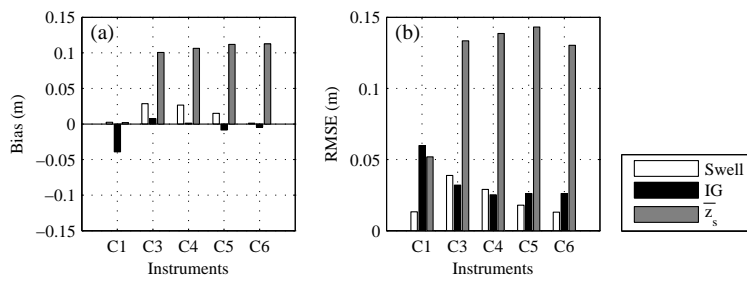


Figure 1.18

1.2.31 Test "River_Outflow"

1.2.31.1 Run "default"

1.2.32 Test "Scheldtflume_H4265"

1.2.32.1 Run "T01"

1.2.32.2 Run "T02"

1.2.32.3 Run "T02a"

1.2.32.4 Run "T03"

1.2.32.5 Run "T11"

1.2.32.6 Run "T12"

1.2.32.7 Run "T13"

1.2.33 Test "Scheldtflume_M1819_I"

1.2.33.1 Run "T01"

1.2.33.2 Run "T02"

1.2.33.3 Run "T03"

1.2.33.4 Run "T04"

1.2.33.5 Run "T05"

1.2.33.6 Run "T06"

1.2.33.7 Run "T07"

1.2.33.8 Run "T08"

1.2.33.9 Run "T09"

1.2.33.10 Run "T10"

1.2.33.11 Run "T11"

1.2.33.12 Run "T12"

1.2.33.13 Run "T13"

1.2.33.14 Run "T14"

1.2.33.15 Run "T21"

²⁰
1.2.33.16 Run "T22"

1.2.33.17 Run "T23"