

XBeach skillbed report

summary report

Revision: 3241 (trunk)

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XBeach skillbed report

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Chapter 1

Introduction

The XBeach code and related functionalities develop fast. As a result there is a need from modelers and code developers to develop a tool that gives insight in the effect of code developments on model performance. The XBeach skillbed tries to fulfill this need by running a range of tests including analytical solutions, laboratory tests and practical field cases every week with the latest code. This report contains a summary of the latest changes and tests. For a full description of the performed tests is referred to the status update reports.

Chapter 2

Release information

2.1 Release notes

We have been working on a lot of cool stuff that still needs to be described in more detail:

- hard structures
- multiple sediment fractions
- bed load and suspended load
- output options
- wave schemes
- non-hydrostatic model
- wave shap parameterization
- drifters
- river outflow
- boundary condition stuff
- ...

2.2 Change log

2.2.1 trunk

```
REVISION: 3241 AUTHOR: bieman DATE: 09/09/13 16:58:34
MESSAGE: moment on ship now coorrected (by Minggui Zhou)
FILES: /trunk/src/xbeachlibrary/ship.F90 M
```

```
REVISION: 3239 AUTHOR: thiel DATE: 08/28/13 21:31:19
MESSAGE: Fveg split out in x- and y-component (remaining bits)
For turbadv = 'none' approach in waveturb routine is consistent with last Release
version
```

FILES: /trunk/src/xbeachlibrary/morphevolution.F90 M
 /trunk/src/xbeachlibrary/spaceparams.tmpl M
 /trunk/src/xbeachlibrary/flow_timestep.F90 M
 /trunk/src/xbeachlibrary/initialize.F90 M

Chapter 3

Overview

In the table below the statuses of all tests found in the skillbed are summarized. In case a test is ignored or has failed, the corresponding message is given in the column “Message”. Please note that success or failure of the test runs are given in column “Run status”, while the success or failure of the Matlab analyses are given in column “Matlab status”. The last columns provide an overview of the main characteristics of each test.

Tests can be run multiple times using different settings. Different runs are identified by a run name, which follows after the test name and a dot sign. If a test is run once only, it is common use to name the run *default*.

Table 3.1: Status overview skillbed tests

Binary	Test	Run	Status	Matlab	Default settings	Configuration	Waves*	Water levels**	Fractions	Morphology	Hard layers	Groundwater flow
netcdf	1953_storm_surge	default	✓	✓		1D	WG	V	1	✓		
netcdf	1976_storm_surge			✓		1D	WG	V	1	✓		
netcdf	1976_storm_surge	raai3400	✗	✓		1D	WG	V	1	✓		
netcdf	1976_storm_surge	raai568	✓	✓		1D	WG	V	1	✓		
netcdf	1976_storm_surge	raai6050	✗	✓		1D	WG	V	1	✓		
netcdf	Assateague_Island			✓		1D	ST	C	1	✓		
netcdf	Assateague_Island	profA	✓			1D	ST	C	1	✓		
netcdf	Assateague_Island	profB1	✓			1D	ST	C	1	✓		
netcdf	Assateague_Island	profB2	✓			1D	ST	C	1	✓		
netcdf	Assateague_Island	profC	✓			1D	ST	C	1	✓		
netcdf	Boers_1C	default	✓	✓		1D	WG	C	1			
netcdf	CarrierGreenspan	default	✓	✓		1D	ST	C	1			
netcdf	DUROS			✓		1D	WG	C	1	✓		
netcdf	DUROS	refere...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		

Table 3.1: Status overview skillbed tests

Binary	Test	Run	Status	Matlab	Default settings	Configuration	Waves*	Water levels**	Fractions	Morphology	Hard layers	Groundwater flow
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume2006	DP01	✓	✓		1D	WG	C	2	✓		
netcdf	Deltaflume2006	DP02	✓	✓		1D	WG	C	2	✓		
netcdf	Deltaflume2006	T01	✓	✓		1D	WG	C	2	✓		
netcdf	Deltaflume2006	T01_zebra	✓	✓		1D	WG	C	2	✓		
netcdf	Deltaflume2006	T02	✓	✓		1D	WG	C	2	✓		
netcdf	Deltaflume2006	T03	✓	✓		1D	WG	C	2	✓		
netcdf	Deltaflume2006	T04	✓	✓		1D	WG	C	2	✓		
netcdf	DeltaflumeH298	T1	✓	✗		1D	WG	C	1	✓	✓	
netcdf	DeltaflumeH298	T2	✓	✗		1D	WG	C	1	✓	✓	
netcdf	DeltaflumeH298	T3	✓	✗		1D	WG	C	1	✓	✓	
netcdf	DeltaflumeH298	T4	✓	✗		1D	WG	C	1	✓	✓	
netcdf	DeltaflumeH298	T5	✓	✓		1D	WG	C	1	✓	✓	
netcdf	DeltaflumeLIP11D	1B	✓	✓		1D	WG	C	1	✓		
netcdf	DeltaflumeLIP11D	1C	✓	✓		1D	WG	C	1	✓		
netcdf	DeltaflumeLIP11D	2E	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_H4731	T11	✓	✓		1D	WG	C	1	✓	✓	
netcdf	Deltaflume_H4731	T12	✓	✓		1D	WG	C	1	✓	✓	
netcdf	Deltaflume_H4731	T14	✓	✓		1D	WG	C	1	✓	✓	
netcdf	Deltaflume_M1263.I			✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	AT33	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	AT47	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	AT61	✓	✓		1D	WG	C	1	✓		

Table 3.1: Status overview skillbed tests

Binary	Test	Run	Status	Matlab	Default settings	Configuration	Waves*	Water levels**	Fractions	Morphology	Hard layers	Groundwater flow
netcdf	Deltaflume_M1263.I	AT71	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	AT91	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	AT95	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT13	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT15	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT17	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT23	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT25	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT27	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT45	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT62	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT72	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT92	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT96	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT14	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT16	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT18	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT24	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT26	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT28	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT46	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT63	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT73	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT93	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT97	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	DT34	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	DT48	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	DT64	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	DT74	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	DT94	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	DT98	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II			✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	101	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	105	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	111	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	115	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	121	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	122	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	123	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	124	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	125	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	126	✓	✓		1D	WG	C	1	✓		

Table 3.1: Status overview skillbed tests

Binary	Test	Run	Status	Matlab	Default settings	Configuration	Waves*	Water levels**	Fractions	Morphology	Hard layers	Groundwater flow
netcdf	Deltaflume_M1263_II	127	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263_II	128	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263_III			✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263_III	Test-1	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263_III	Test-2	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263_III	Test-3	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263_III	Test-4	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1263_III	Test-5	✓	✓		1D	WG	C	1	✓		
netcdf	Deltaflume_M1797	T01	✓	✓		1D	WG	V	1	✓		
netcdf	Deltaflume_M1797	T02	✓	✓		1D	WG	V	1	✓		
netcdf	GWK86			✗		1D	WG	V	1	✓		
netcdf	GWK86	T01	✓	✓		1D	WG	V	1	✓		
netcdf	GWK86	T02	✓	✓		1D	WG	V	1	✓		
netcdf	GWK86	T03	✓	✓		1D	WG	V	1	✓		
netcdf	GWK86	T04	✓	✓		1D	WG	V	1	✓		
netcdf	GWK86	T05	✓	✓		1D	WG	V	1	✓		
netcdf	GWK86	T06	✓	✓		1D	WG	V	1	✓		
netcdf	GWK98			✗		1D	WG	C	1	✓		
netcdf	GWK98	A9	✓	✓		1D	WG	C	1	✓		
netcdf	GWK98	B2	✓	✓		1D	WG	C	1	✓		
netcdf	GWK98	C2	✓	✓		1D	WG	C	1	✓		
netcdf	GWK98	F1	✓	✓		1D	WG	C	1	✓		
netcdf	GWK98	H2	✓	✓		1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265			✗		1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T01	✓	✓		1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T02	✓	✓		1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T02a	✓	✓		1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T03	✓	✓		1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T11	✓	✓		1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T12	✓	✓		1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T13	✓	✓		1D	WG	C	1	✓		
netcdf	Scheldtflume_M1819_I			✗		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T01	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T02	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T03	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T04	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T05	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T06	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T07	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T08	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T09	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T10	✓	✓		1D	WG	V	1	✓		

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Binary	Test	Run	Status	Matlab	Default settings	Configuration	Waves*	Water levels**	Fractions	Morphology	Hard layers	Groundwater flow
netcdf	Scheldtflume_M1819_I	T11	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T12	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T13	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T14	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T21	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T22	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T23	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T24	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T25	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T26	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T27	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T28	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T29	✓	✓		1D	WG	V	1	✓		
netcdf	Scheldtflume_M18...			✗		1D	WG	V	1	✓	✓	
netcdf	Scheldtflume_M18...	T01	✓	✓		1D	WG	V	1	✓	✓	
netcdf	Scheldtflume_M18...	T02	✓	✓		1D	WG	V	1	✓	✓	
netcdf	Scheldtflume_M18...	T03	✓	✓		1D	WG	V	1	✓	✓	
netcdf	Scheldtflume_M18...	T04	✓	✓		1D	WG	V	1	✓	✓	
netcdf	long_wave_propag...			✓		1D	ST	C	1			
netcdf	long_wave_propag...	default	✓	✓		1D	ST	C	1			
netcdf	1953_storm_surge	default	✓	✓	✓	1D	WG	V	1	✓		
netcdf	1976_storm_surge			✓	✓	1D	WG	V	1	✓		
netcdf	1976_storm_surge	raai3400	✗	✓	✓	1D	WG	V	1	✓		
netcdf	1976_storm_surge	raai568	✓	✓	✓	1D	WG	V	1	✓		
netcdf	1976_storm_surge	raai6050	✗	✓	✓	1D	WG	V	1	✓		
netcdf	Assateague_Island			✓	✓	1D	ST	C	1	✓		
netcdf	Assateague_Island	profA	✓		✓	1D	ST	C	1	✓		
netcdf	Assateague_Island	profB1	✓		✓	1D	ST	C	1	✓		
netcdf	Assateague_Island	profB2	✓		✓	1D	ST	C	1	✓		
netcdf	Assateague_Island	profC	✓		✓	1D	ST	C	1	✓		
netcdf	Boers_1C	default	✓	✓	✓	1D	WG	C	1			
netcdf	CarrierGreenspan	default	✓	✓	✓	1D	ST	C	1			
netcdf	DUROS			✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	refere...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		

Table 3.1: Status overview skillbed tests

Binary	Test	Run	Status	Matlab	Default settings	Configuration	Waves*	Water levels**	Fractions	Morphology	Hard layers	Groundwater flow
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DUROS	transe...	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume2006	DP01	✓	✓	✓	1D	WG	C	2	✓		
netcdf	Deltaflume2006	DP02	✓	✓	✓	1D	WG	C	2	✓		
netcdf	Deltaflume2006	T01	✓	✓	✓	1D	WG	C	2	✓		
netcdf	Deltaflume2006	T01_zebra	✓	✓	✓	1D	WG	C	2	✓		
netcdf	Deltaflume2006	T02	✓	✓	✓	1D	WG	C	2	✓		
netcdf	Deltaflume2006	T03	✓	✓	✓	1D	WG	C	2	✓		
netcdf	Deltaflume2006	T04	✓	✓	✓	1D	WG	C	2	✓		
netcdf	DeltaflumeH298	T1	✓	✗	✓	1D	WG	C	1	✓	✓	
netcdf	DeltaflumeH298	T2	✓	✗	✓	1D	WG	C	1	✓	✓	
netcdf	DeltaflumeH298	T3	✓	✗	✓	1D	WG	C	1	✓	✓	
netcdf	DeltaflumeH298	T4	✓	✗	✓	1D	WG	C	1	✓	✓	
netcdf	DeltaflumeH298	T5	✓	✓	✓	1D	WG	C	1	✓	✓	
netcdf	DeltaflumeLIP11D	1B	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DeltaflumeLIP11D	1C	✓	✓	✓	1D	WG	C	1	✓		
netcdf	DeltaflumeLIP11D	2E	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_H4731	T11	✓	✓	✓	1D	WG	C	1	✓	✓	
netcdf	Deltaflume_H4731	T12	✓	✓	✓	1D	WG	C	1	✓	✓	
netcdf	Deltaflume_H4731	T14	✓	✓	✓	1D	WG	C	1	✓	✓	
netcdf	Deltaflume_M1263.I			✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	AT33	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	AT47	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	AT61	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	AT71	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	AT91	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	AT95	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT13	✓	✓	✓	1D	WG	C	1	✓		

Table 3.1: Status overview skillbed tests

Binary	Test	Run	Status	Matlab	Default settings	Configuration	Waves*	Water levels**	Fractions	Morphology	Hard layers	Groundwater flow
netcdf	Deltaflume_M1263.I	BT15	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT17	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT23	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT25	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT27		✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT45	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT62	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT72	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT92	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	BT96	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT14	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT16	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT18	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT24	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT26	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT28		✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT46	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT63	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT73	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT93	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	CT97	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	DT34	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	DT48	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	DT64	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	DT74	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	DT94	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.I	DT98	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II			✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	101	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	105	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	111	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	115	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	121	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	122	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	123	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	124	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	125	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	126	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	127	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.II	128	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.III			✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263.III	Test-1	✓	✓	✓	1D	WG	C	1	✓		

Table 3.1: Status overview skillbed tests

Binary	Test	Run	Status	Matlab	Default settings	Configuration	Waves*	Water levels**	Fractions	Morphology	Hard layers	Groundwater flow
netcdf	Deltaflume_M1263_III	Test-2	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263_III	Test-3	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263_III	Test-4	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1263_III	Test-5	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Deltaflume_M1797	T01	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Deltaflume_M1797	T02	✓	✓	✓	1D	WG	V	1	✓		
netcdf	GWK86			✗	✓	1D	WG	V	1	✓		
netcdf	GWK86	T01	✓	✓	✓	1D	WG	V	1	✓		
netcdf	GWK86	T02	✓	✓	✓	1D	WG	V	1	✓		
netcdf	GWK86	T03	✓	✓	✓	1D	WG	V	1	✓		
netcdf	GWK86	T04	✓	✓	✓	1D	WG	V	1	✓		
netcdf	GWK86	T05	✓	✓	✓	1D	WG	V	1	✓		
netcdf	GWK86	T06	✓	✓	✓	1D	WG	V	1	✓		
netcdf	GWK98			✗	✓	1D	WG	C	1	✓		
netcdf	GWK98	A9	✓	✓	✓	1D	WG	C	1	✓		
netcdf	GWK98	B2	✓	✓	✓	1D	WG	C	1	✓		
netcdf	GWK98	C2	✓	✓	✓	1D	WG	C	1	✓		
netcdf	GWK98	F1	✓	✓	✓	1D	WG	C	1	✓		
netcdf	GWK98	H2	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265			✗	✓	1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T01	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T02	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T02a	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T03	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T11	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T12	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Scheldtflume_H4265	T13	✓	✓	✓	1D	WG	C	1	✓		
netcdf	Scheldtflume_M1819_I			✗	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T01	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T02	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T03	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T04	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T05	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T06	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T07	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T08	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T09	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T10	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T11	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T12	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T13	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T14	✓	✓	✓	1D	WG	V	1	✓		

Table 3.1: Status overview skillbed tests

Binary	Test	Run	Status	Matlab	Default settings	Configuration	Waves*	Water levels**	Fractions	Morphology	Hard layers	Groundwater flow
netcdf	Scheldtflume_M1819_I	T21	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T22	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T23	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T24	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T25	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T26	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T27	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T28	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M1819_I	T29	✓	✓	✓	1D	WG	V	1	✓		
netcdf	Scheldtflume_M18...			✗	✓	1D	WG	V	1	✓	✓	
netcdf	Scheldtflume_M18...	T01	✓	✓	✓	1D	WG	V	1	✓	✓	
netcdf	Scheldtflume_M18...	T02	✓	✓	✓	1D	WG	V	1	✓	✓	
netcdf	Scheldtflume_M18...	T03	✓	✓	✓	1D	WG	V	1	✓	✓	
netcdf	Scheldtflume_M18...	T04	✓	✓	✓	1D	WG	V	1	✓	✓	
netcdf	long_wave_propag...			✓	✓	1D	ST	C	1			
netcdf	long_wave_propag...	default	✓	✓	✓	1D	ST	C	1			

* ST = stationary, WG = wave groups, NH = non-hydrostatic

** C = constant, V = varying