Manual for Package: delft3d Revision 2M

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Contents

1	@DFN	I	1		
	1.1	DFM	1		
	1.2	export_bc	1		
	1.3	export_cross_section_geometry	1		
	1.4	export_his	1		
	1.5	$\operatorname{export_pli}$	1		
2	@DFN	I/old	1		
	2.1	write_mor	1		
	2.2	write_sed	2		
3	@DFM 2				
	3.1	read_cross_section_geometry	2		
	3.2	read_mdu	2		
	3.3	$\operatorname{read_pli} \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	2		
	3.4	write_friction_ext	2		
	3.5	write_initial_water_level	2		
	3.6	write_project	2		
4	@DFN	I_{-} Calibrator	2		
	4.1	DFM_Calibrator	2		
	4.2	calibrate	2		
	4.3	calibration_objective	3		
	4.4	extract	3		
	4.5	extract_discharge	3		
	4.6	$extract_water_level \dots \dots \dots \dots \dots \dots$	3		
	4.7	getstate	3		
	4.8	log	3		
	4.9	print_calibration_parameter	3		

	4.10	$\operatorname{run} \ \ldots \ \ldots \ \ldots \ \ldots \ \ldots \ 3$
5	$ m I_{ m Map}$ 3	
	5.1	DFM_Map
	5.2	FlowLink_waterdepth
	5.3	FlowLink_width
	5.4	bed_shear_stress
	5.5	bedform_dimension
	5.6	cat
	5.7	cross_section_1d
	5.8	discharge_1d
	5.9	elem_x_centre
	5.10	elem_y_centre
	5.11	energy_transport_1d
	5.12	flicker
	5.13	grain_size
	5.14	mtime
	5.15	nearest_FlowElem
	5.16	nearest_FlowLink
	5.17	nedge
	5.18	nelem
	5.19	nvertex
	5.20	order_coordinates
	5.21	plot
	5.22	plot_ElemLink
	5.23	plot_FlowElemContour 6
	5.24	plot_FlowLink
	5.25	plot_NetLink
	5.26	plot_NetLinkContour
	5.27	read_grain_size
	5.28	read_rgh
	5.29	resample
	5.30	roughness
	5.31	sediment_transport 6
	5.32	sediment_transport_rijn
	5.33	time
	5.34	transport_stage_rijn
	5.35	velocity_1d
	5.36	video
	5.37	waterlevel
6	@Delft	
	6.1	Delft3D
	6.2	default_bcc

	6.3	$\operatorname{export_bcc}$	7
	6.4	export_bcc_sal	8
	6.5	export_bcm	8
	6.6	export_bct	8
	6.7	$\operatorname{export_bnd} \ \dots $	8
	6.8	export_config_xml	8
	6.9	export_crs	8
	6.10	export_inicomp	8
	6.11	export_morfac	8
	6.12	export_obs	8
	6.13	export_thin_dams	8
	6.14	export_tra	9
	6.15	export_trt	9
	6.16	export_trtdef	9
	6.17	folder_name	9
	6.18		9
	6.19		9
	6.20	write_all	9
	6.21	write_bch	9
	6.22	write_ddb	9
	6.23	write_ini	9
7	@Delf	${ m t3D_His}$	n
•	7.1		0
	•••		
8	@Delf	$t3D_{-}Map$ 1	0
	8.1	Delft3D_Map	0
	8.2	backscatter	0
	8.3		0
	8.4		1
	8.5	difference	.1
	8.6	discharge	.1
	8.7	_	1
	8.8		.1
	8.9	plot_cs2	.1
	8.10	-	.1
	8.11		1
	8.12		. 1
	8.13	•	1
	8.14		2
9	⊕D∿lt	${ m t3D_Mdf}$	า
J	@Den 9.1		2
	9.2	compose domain	

	9.3	$compose_mdf \dots \dots$	2
10	@Delft 10.1	3D_Mor 1 Delft3D_Mor 1	_
11	@ Delft 11.1 11.2	3D_Sed 1 Delft3D_Sed 1 set_gsd 1	2
12	delft3d 12.1 12.2 12.3 12.4 12.5 12.6 12.7	Mor_Units 1 d3d_predict_final_state 1 dfm_export_bc 1 export_mft 1 nearest_fractional_timestep 1 oversampleNZ 1 pxml 1	2 3 3 3 3
1 1.1	@ D]		
1.2	2 exp	$\mathrm{ort}_{ ext{-}}\mathrm{bc}$	
1.3	в ехр	$\operatorname{ort_cross_section_geometry}$	
1.4	4 exp	$\operatorname{ort}_{ ext{-}}\mathbf{his}$	
1.5	ő exp	$\mathrm{ort}_{ extsf{-}}\mathrm{pli}$	

2.1	$\mathbf{write_mor}$
2.2	$\mathbf{write_sed}$
3	@DFM
3.1	${\bf read_cross_section_geometry}$
3.2	${ m read}_{ m L}{ m mdu}$
3.3	$\mathbf{read}_{-}\mathbf{pli}$
3.4	$write_friction_ext$
3.5	$write_initial_water_level$
3.6	$\mathbf{write_project}$

 $@DFM_Calibrator$

4.1 DFM_Calibrator

4

@DFM/old

4.2	calibrate
4.3	${\bf calibration_objective}$
4.4	extract
4.5	${ m extract_discharge}$
4.6	$extract_water_level$
4.7	getstate
4.8	log
4.9	$print_calibration_parameter$
4.10	run

5.2	${\bf Flow Link_water depth}$
5.3	${\bf FlowLink_width}$
5.4	bed_shear_stress
5.5	${\bf bedform_dimension}$
5.6	cat
5.7	${ m cross_section_1d}$
5.8	${f discharge_1d}$

5.9 elem_x_centre

5

 $@DFM_Map\\$

5.1 DFM_Map

5.10	${ m elem_{-}y_{-}centre}$
5.11	${ m energy_transport_1d}$
5.12	flicker
5.13	$\operatorname{grain}_{-\operatorname{size}}$
5.14	mtime
5.15	$nearest_FlowElem$
5.16	$nearest_FlowLink$
5.17	nedge
5.18	nelem

5.19 nvertex

5.20	$order_coordinates$
5.21	plot
5.22	${f plot_ElemLink}$
5.23	${\bf plot_FlowElemContour}$
5.24	${ m plot_FlowLink}$
5.25	${\bf plot_NetLink}$
5.26	${\bf plot_NetLinkContour}$
5.27	${ m read_grain_size}$
5.28	read_rgh

5.29 resample

5.30	roughness
5.31	$\mathbf{sediment}_{\mathtt{_transport}}$
5.32	$sediment_transport_rijn$
5.33	time
5.34	$transport_stage_rijn$
5.35	$ m velocity_1d$
5.36	video
5.37	waterlevel
6 @	${ m Delft3D}$
	Delft3D
	— -

interface for automatically generating and reading Delft3D-4 models

6.2	$ m default_bcc$
6.3	$\mathbf{export_bcc}$
6.4	$export_bcc_sal$
6.5	$\mathbf{export_bcm}$
6.6	$\mathbf{export_bct}$
6.7	${\bf export_bnd}$
6.8	${\bf export_config_xml}$
6.9	${ m export_crs}$
6.10	$\mathbf{export_inicomp}$

 $6.11 \quad export_morfac$

- 6.12 export_obs
 6.13 export_thin_dams
 6.14 export_tra
 6.15 export_trt
 6.16 export_trtdef
 6.17 folder_name
- $6.18 \quad read_all$
- 6.19 set_fractions
- 6.20 write_all
- 6.21 write_bch

- 6.22 write_ddb
- 6.23 write_ini

7 @Delft3D_His

7.1 Delft3D_His

```
fdx = (Xc^{-}0) & (Yc^{-}0);
fdx(1,:) = true; fdx(end,:) = true;
fdx(:,1) = true; fdx(:,end) = true;
fdx = fdx & (X>0);
X = obj.X;
for idx=1:size(u3,2)
% first
if (isnan(u3(1,idx,1,1)))
       u3(:,idx,1,:) = 0;
end % if first
% centre
for jdx=2:size(u3,3)-1
       if (~isnan(X(idx,jdx)) && isnan(u3(1,
           idx,jdx,1)) ...
            && ( isnan(X(idx,jdx+1)) \mid | isnan(X
                (idx,jdx-1)) ) )
               u3(:,idx,jdx,:) = 0;
       end
end % for jdx
% last
if (isnan(u3(1,idx,end,1)))
       u3(:,idx,end,:) = 0;
 end % if last
end % for idx
```

8 @Delft3D_Map

8.1 Delft3D_Map

8.2 backscatter 8.3 calibrate_backscatter c = permute(c,[4,1,2,3]); 8.4 cs_flux 8.5 difference 8.6 discharge 8.7 mark_cs $8.8 \quad plot_cs$ $8.9 \quad plot_cs2$

 $8.10 \quad plot_cs_1d$

8.11 plot_stratigraphy

- 8.12 quiver_cs
- 8.13 to_earth
- 8.14 video

- 9 @Delft3D_Mdf
- 9.1 Delft3D_Mdf
- 9.2 compose_domain
- 9.3 compose_mdf
- 10 @Delft3D_Mor
- 10.1 Delft3D_Mor
- 11 @Delft3D_Sed
- 11.1 Delft3D_Sed

- $11.2 \quad set_gsd$
- 12 delft3d
- 12.1 Mor_Units
- $12.2 \quad d3d_predict_final_state$
- 12.3 dfm_export_bc
- 12.4 export_mft
- $12.5 \quad nearest_fractional_timestep$
- 12.6 oversample NZ
- 12.7 pxml