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Numerical Modelling of Suspended Transport and Deposition of Highway Deposited Sediments

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Numerical modelling of suspended transport and deposition of highway deposited sediments

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by

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Numerical modelling of suspended transport and deposition of highway deposited sediments

Technical report,

Series number 47

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Good data for calibration and validation of numerical models are of high importance. In the natural environment data can be hard to archive and the stochastic nature have governing influence on the data archived. Hence for modelling of suspended transport and deposition of particles, originating from the highway surfaces, in highway detention ponds, four transport experiments are carried out. To simplify the complexity of a real pond and for easy control and measurement the sediment transport experiments where carried out in two rectangular channels: one 7.5m x 0.3m, x 0.3 m and one 30m x 0.8 m x 0.7 m (length x width x depth) respectively with sediment traps at the bottom. The model calculations showed good correlation with the measured longitudinal sediment net accumulation as shown subsequently. The sediment used in the experiments origins from the *Vodskov* detentions pond and settling velocity distributions was initially measured in a vertical tube for characterizing the sediment. The hydrodynamics within the channels are described with the CFD program MIKE3 (DHI, 2008) in three dimensions by solving the Navier Stokes equation with assumption of hydrostatic pressure distribution cf. the mass conservation eqn. 1 and the momentum eqn. 2 (for the x-direction).

$$\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z} = S \tag{1}$$

$$\frac{\partial u}{\partial t} + \frac{\partial uu}{\partial x} + \frac{\partial uv}{\partial y} + \frac{\partial uw}{\partial z} = -\frac{1}{\rho} \frac{\partial P}{\partial x} + \frac{\partial}{\partial x} \left(2v_T \frac{\partial u}{\partial x} \right) + \frac{\partial}{\partial y} \left(v_T \left(\frac{\partial u}{\partial y} + \frac{\partial v}{\partial x} \right) \right) + \frac{\partial}{\partial z} \left(v_T \frac{\partial u}{\partial z} \right) + u_s S$$
 (2)

where u,v,w = velocities in the x,y,z directions, S = source/sink term, ρ = density, v_T = eddy viscosity and the pressure term is solved by eqn. (3)

$$\frac{1}{\rho} \frac{\partial P}{\partial x} = \frac{g\rho(\zeta)}{\rho} \frac{\partial \zeta}{\partial x} + \frac{g}{\rho} \int_{z}^{\zeta} \frac{\partial \rho}{\partial x} dz \tag{3}$$

where g = acceleration due to gravity and ξ = surface elevation. The eddy viscosity is calculated by means of the Smagorinsky formulation (eqn 4).

$$v_T = (C \cdot \Delta s) \sqrt{S_{ii} \cdot S_{ji}} \tag{4}$$

where C = Smagorinsky coefficients (one for the horizontal plane and one for the vertical) $\Delta s = \text{grid}$ spacing and S = velocity gradients. The sediment transport within the channels is described with the CFD program MIKE3 - Mud Transport (MT) (DHI, 2008). The sediment pumped to the channel is in the model divided into 7 fractions with different settling velocities, corresponding to measured settling velocity distributions of Vodskov pond sediment. The suspended transport of sediment within the channels is described with the advection-dispersion eqn. (5) (for the z-direction).

$$\frac{\partial c}{\partial t} + \frac{\partial}{\partial z} \left(c \left(w - w_{s,i} \right) \right) = \frac{\partial}{\partial z} \left(D_c \frac{\partial c}{\partial z} \right) + S_c \tag{5}$$

where c = concentration of the ith fraction of sediment with the corresponding settling velocity w_s and D = dispersion coefficient calculated proportional to eddy viscosity with the Prantl number. The deposition of suspended material is governed by whether the bed shear stress is below the critical shear stress for deposition τ_{cd} . The critical shear stress for deposition is set to vary between 0.04 N/m² for the fastest falling particles and 0.03 N/m² for the slowest. The deposition D of the ith fraction is described as given in eqn. 6 (DHI, 2008).

$$D_i = w_s^i c_b^i p_d^i \tag{6}$$

where c_b is the near bed concentration and p_d is the probability of deposition $1 - \frac{\tau_b}{\tau_{cd}}$, $\tau_b \le \tau_{cd}$

Experiment 1

Experiment 1 was carried out in a channel 7.5 m long and 0.3 m wide with a constant water level of 0.3 m The channel is discretized in grids of 0.075m x 0.04 m x 0.028m (*x*, *y*, *z*) and applied an equivalent sand roughness of 0.001 m. Only water and dissolved Rodamin was used and the Rodamin concentration was measured in the outlet of the channel. Laser Doppler Anamometry was used for velocity measurements. The aim of the experiment was to calibrate the hydrodynamic description (the Smagorinsky coefficients, eqn. 4)) for low flow velocities, which are common in detention ponds, and dispersion coefficients for the dispersion term in eqn. 5. Figure 1 to Figure 6 shows the experiment and results of the calibrated model, with Smagorinsky coefficients of 0.11 for the horizontal plane and 0.14 for the vertical plane and dispersion factors of 0.3 and 1 proportional to the eddy viscosity. By adjusting the Smagorinsky coefficients the turbulence formulation is not longer an actual Smagorinsky turbulence formulation but a mixing length formulation.

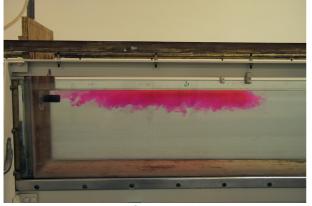


Figure 1. Initial phase of the tracer experiment.

Figure 2. The spread of tracer after 25 minutes.

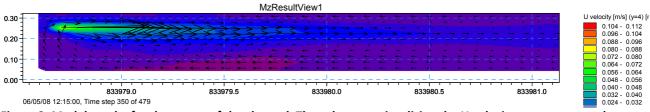


Figure 3. Model results for the centre of the channel. The colour are visualizing the U velocity component and vectors the resultant of U and W.

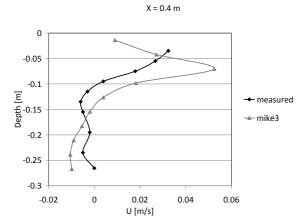


Figure 4 Model and measured U velocities in the centre of the channel 0.4 m from the inlet.

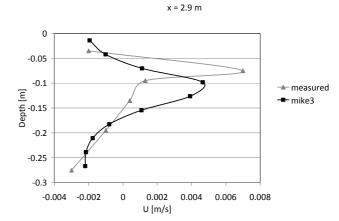


Figure 5 Model and measured U velocities in the centre of the channel 2.9 m from the inlet.

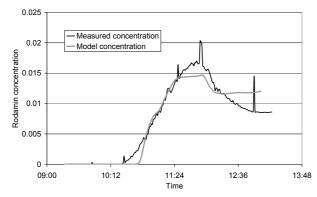


Figure 6. Model and measured Rodamin concentration in the outlet from the channel.

Experiment 2

The experiment 2 was conducted in a 30 m long and 0.8 m wide concrete channel placed beside the Aarslev detention pond (Figure 9). An overview of the experiment is given in Figure 7. The inlet structure in this experiment (2) is different than the one showed on Figure 7 which is a pipe inlet used in experiment 3. In experiment 2, the water and sediment are pumped to the channel in a device spreading the water and sediment uniform over the width and placed at the very beginning of the channel.

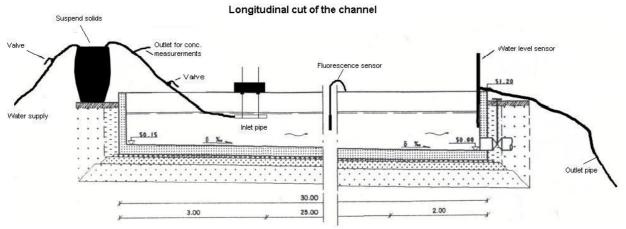


Figure 7 Longitudinal cut of the channel used in experiment 2/3.

As initial condition, the channel was filled with water from the detention pond to a water level corresponding to Figure 8. Subsequently water was pumped to the barrel as shown on Figure 7 where water and sediment from the Vodskov detention pond was mixed and pumped to the channel. The outlet was a siphon pipe with a discharge corresponding to Figure 8. At the bottom of the channel sediment traps were placed (Figure 10 and Figure 11).

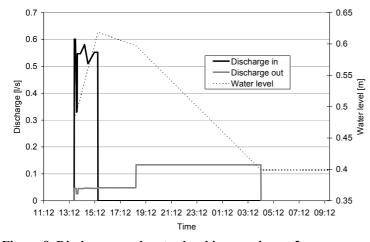


Figure 8. Discharges and water level in experiment 2.



Figure 9. Channel used for the large scale experiments.



Figure 10. Sediment plates at the bottom of the channel.



Figure 11. Sediment plates at the inlet and outlet zone respectively.

Initially the settling velocity distribution measured in a vertical tube in still water was used as input parameter for the MIKE 3 – Mud Transport model. Several attempt on calibrating the model were done, but without luck. The sediment did only settle in the first 2/3rd of the channel in the model and almost 80 percent within the first few metres. In conjunction with the measured longitudinal net accumulation, sediment grain size distributions for the accumulated sediment within each sediment trap was measured by laser diffraction analysis. The longitudinal grain size distribution showed a very good correlation with the mass accumulation distribution as shown in Figure 12 and Figure 13.

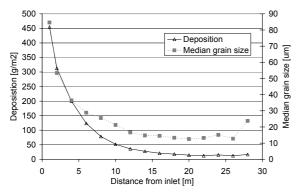


Figure 12. Longitudinal net deposition and median grain size distribution.

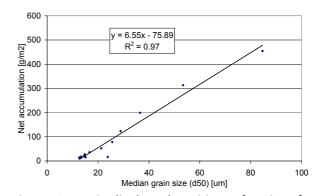
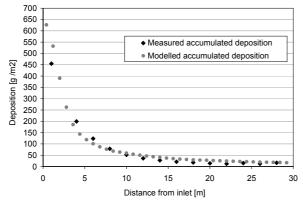


Figure 13. Longitudinal net deposition as function of median grain size.

Thus with knowledge about the longitudinal mass distribution of the sediment, the mass that have left the channel through the outlet and with appliance of Stokes law for settling with a fractionated density as described in e.g. Kayhanian and Rasa (2007). A new settling velocity distribution was calculated and used as input parameter for the sediment description with a satisfactory result as shown in Figure 14. A possible reason for a changed settling velocity distribution could be explained by the presence of the pump. The initial settling velocity distribution was measured by adding a bulk of sediment to a vertical tube with still water. Thus flocculation of particles might have increased the settling velocity whereas in the channel experiment the bulk of sediment added

has passed several facilities with very high turbulence and mechanic stresses in contact with the pump blades. As shown in Figure 15 the grain size distribution is not significant disturbed through the inlet facilities, which can be explained by the way the laser diffraction analysis where done. Here sediment/water is re-circulated by a pump through small pipes with high velocity. The undisturbed sample and the samples taken in the inlet facility have thus passed the same stress conditions.



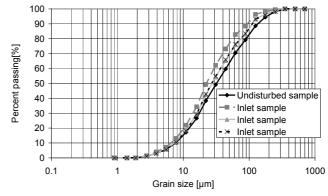


Figure 14. Measured and modelled longitudinal net deposition and median grain size distribution.

Figure 15. Grain size distributions for initial added sediment and sediment passing the inlet facilities.

Experiment 3 and 4

For validation of the sediment transport model, two experiments were subsequently done, one in the small channel and one in the large channel. The small channel experiment is similar to experiment one described previously but with sediment continuously added over 40 minutes. The inlet concentrations were measured at 1 Hz sampling frequency with a density meter as described in Bentzen *et al.* (2008a). Flow data and concentration data can be seen in Figure 16 and photo from the experiment in Figure 17. The model showed good correlation with the measured deposition as shown in Figure 18 except for the area just below the inlet pipe. The mass balance for the experiment holds: 148 grams of sediment was added, 148 grams was recovered at the bottom (in the model 149 grams was recovered on the bottom). Additional information about the composition of the deposited sediment was achieved cf. Figure 19 where, as expected, with increasing organic content in the longitudinal direction.

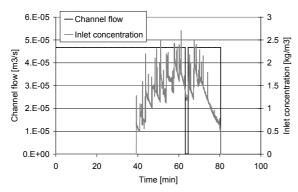


Figure 16. Flow through the channel and inlet concentration.



Figure 17. Sediment transport trough the channel. Outlet to the right.

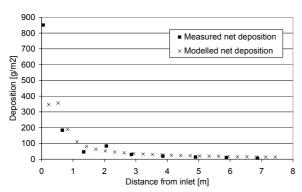


Figure 18. Measured and modelled longitudinal net deposition and median grain size distribution.

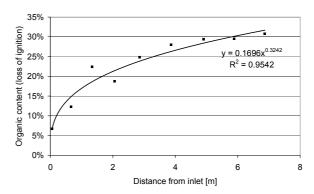


Figure 19. Longitudinal variation of the organic content within the sediment.

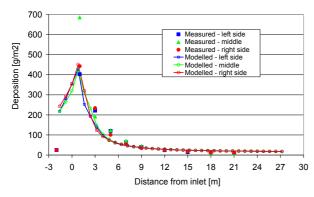
The validation experiment in the large channel is sketched in Figure 7, with a pipe inlet as shown on Figure 20 and Figure 21. Results can be seen in Figure 22 and Figure 23. The model showed fairly good correlation with the measured deposition as shown in Figure 18. The deposition is underestimated in the model within the area of three to six metres from the inlet pipe and slight overestimated in end of the channel. Whether this is due to a change in settling velocity distribution compared to experiment 2 or uncertainties in the model can not be concluded from the present data. The measured and modelled outlet concentration are timely good correlated, but the modelled outlet mass is underestimated as shown in Figure 23. This corresponds with the higher deposition in end of the channel in the model. So whether it is to less turbulence in the end of the channel or still the settling velocity distribution that might not be completely correct is not to be said. But never the less the model has be shown capable with an acceptable accuracy to model the transport of highway sediments within the channels.

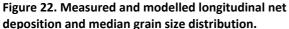


Figure 20. Adjusting the pipe inlet prior experiment 4.



Figure 21. Initial phase of experiment 4 with sediment inflow.





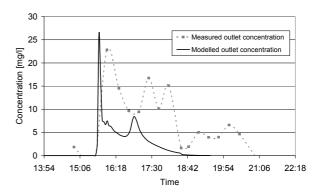


Figure 23. Measured and modelled outlet concentration from the channel.

Conclusion

Since the model has been shown capable with an acceptable accuracy to model the transport of highway sediments within the channels it might be assumed that this is also the case in e.g. detention ponds where water depths and flow conditions are comparable with the especially the large channel. Previously the model has been shown capable to model the hydrodynamics and transport of dissolved tracer pollutants with highly acceptable accuracy e.g. in Bentzen et al. (2005), Bentzen et al. (2008b) and in Bentzen, T. R., 2008c.

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DHI (2008) Danish Hydraulic Institute, Software package 2008. Software description available on the website: http://www.dhigroup.com/Software.aspx

Kayhanian, M. and Rasa, E. (2007) Particle size distribution and fractionated particle density as a monitoring tool for assessing the performance of stormwater best management practices. 11th diffuse pollution conference and 1st meeting of diffuse pollution and urban drainage specialist groups. 26 – 31 August 2007, Belo Horizonte, Brazil.

Appendix – MIKE 3 Mud Transport setup for experiment 4

| // Created : 2008-08-28 15:27:48 | EndSect // SIMULATION PERIOD | Format = 0 |
|--|--|-----------------------------------|
| // DLL id : c:\programmer\fælles | Endove // ShineEntro.v_1 Endos | Constant Value = 0 |
| filer\dhi\mikezero\pfs2004.dll | [BOUNDARY] | [DATA FILE] |
| // PFS version : Nov 27 2007 20:39:43 | Touched = 1 | Touched = 1 |
| // 115 Velbion : 1(0) 2/ 200/ 20.53: 15 | MzSEPfsListItemCount = 0 | FILE NAME = |
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| [OPTION_PARAMETERS] | ProgramDetected = true | EndSect // DATA FILE |
| EndSect // OPTION_PARAMETERS | EndSect // BOUNDARY | |
| | | EndSect // AREA 1 |
| [MODULE SELECTION] | [SOURCE AND SINK] | _ |
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| IncludeSalinity = true | MzSEPfsListItemCount = 2 | INITIAL SURFACE ELEVATION |
| IncludeTemperature = false | NumberOfSources = 2 | |
| IncludeAD = false | [SOURCE_SINK_1] | [BOUNDARY_CONDITIONS] |
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| IncludeECOLab = false | Type = 0 | MzSEPfsListItemCount = 0 |
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| ADUpdateFrequency = 1 | Area = 1 | |
| HydroStaticEngine = true | SourcePoint = $0, 0, 13$ | [RESISTANCE] |
| InternalComponentLoop = false | SourceArea = 1 | Touched = 1 |
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| HotStart = false | Type = 0 | Bottom = 1 |
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| 30",GEOGCS["Unused",DATUM["UTM | Area = 1 SourcePoint = 0, 0, 13 | EndSect // SLIP_FACTORS |
| Projections", SPHEROID["WGS | | IDATA EILEI |
| 1984",6378137,298.257223563]],PRIMEM["Gr eenwich",0],UNIT["Degree",0.0174532925199 | SourceArea = 1 SinkPoint = 0, 0, 13 | [DATA_FILE] Touched = 1 |
| 433]],PROJECTION["Transverse_Mercator"],P | SinkFoint = 0, 0, 13 $SinkArea = 1$ | FILE NAME = |
| ARAMETER["False Easting",500000],PARA | EndSect // SOURCE SINK 2 | ITEM COUNT = 1 |
| METER["False Northing",0],PARAMETER[" | Elidsect // SOURCE_SINK_2 | ITEM_COUNT = 1 ITEM NUMBERS = 1 |
| Central Meridian",- | EndSect // SOURCE AND SINK | EndSect // DATA FILE |
| 3],PARAMETER["Scale_Factor",0.9996],PAR | EndSect // SOOKEL_AND_SINK | Endocct // DATA_TIEE |
| AMETER["Latitude_Of_Origin",0],UNIT["Met | [FLOOD AND DRY] | [AREA 1] |
| er",1]]' | Touched = 1 | Touched = 1 |
| Layers = 14 | EnableFloodAndDryChecking = false | Format = 0 |
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| Touched = 1 | Touched = 1 | EndSect // RESISTANCE |
| FILE_NAME = .\Grid1.dfs2 | MzSEPfsListItemCount = 0 | ETHERNH ENGE DAR AMETERGI |
| ITEM_COUNT = 1 | NoOfPolygons = 0 | [TURBULENCE_PARAMETERS] |
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| EndSect // DATA_FILE | EndSect // BASIC PARAMETERS | MzSEPfsListItemCount = 1 |
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| EndSect // BATHYMETRY SELECTION | [OPTION PARAMETERS] | VCoefficient = 0.14 |
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| [SIMULATION PERIOD] | Endoct // Of Hori_Pricting | EddyXLimits = 1.79999933485565e- |
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| Touched $= 1$ | [AREA_1] | IncludeAirPressureVariation = false |
| $FILE_NAME = $ | Touched = 1 | IncludeAirPressureCorrections = false |
| $ITEM_COUNT = 1$ | XLimits = 0, 0.03999999910593033 | [DATA_FILE] |
| $ITEM_NUMBERS = 1$ | YLimits = 0, 0.008999999612569809 | Touched = 1 |
| EndSect // DATA_FILE | ZLimits = 1.800000006824121e-007, | FILE_NAME = |
| | 0.0299999932944775 | $ITEM_COUNT = 1$ |
| EndSect // AREA_1 | EndSect // AREA_1 | ITEM_NUMBERS = 1 |
| | <u> </u> | EndSect // DATA_FILE |
| EndSect // INITIAL VALUE | EndSect // DISPERSION LIMITS | _ |
| _ | _ | EndSect // WIND CONDITIONS |
| [DISPERSION FACTORS] | EndSect // TEMPERATURE | _ |
| Touched = 1 | | [DISCHARGE CALCULATIONS] |
| MzSEPfsListItemCount = 1 | [PRECIPITATION] | Touched = 1 |
| [AREA_1] | IncludePrecipitation = false | MzSEPfsListItemCount = 0 |
| Touched = 1 | ConstantValue = 0 | NumberOfLines = 0 |
| DispersionFactors = | Format = -1 | EndSect // |
| 0.1000000014901161, 0.1000000014901161 | NetPrecipitation = true | DISCHARGE_CALCULATIONS |
| EndSect // AREA 1 | [PrecipTemp] | _ |
| _ | Touched = 1 | [HD SOURCE SINK] |
| EndSect // DISPERSION_FACTORS | Format = -1 | Touched = 1 |
| _ | ConstantValue = 0 | MzSEPfsListItemCount = 2 |
| [DISPERSION LIMITS] | [DATA FILE] | [SOURCE 1] |
| Touched = 1 | Touched = 1 | Touched = 1 |
| MzSEPfsListItemCount = 1 | FILE NAME = | Format = 1 |
| [AREA 1] | ITEM COUNT = 1 | IncludedInFile = false |
| Touched = 1 | ITEM NUMBERS = 1 | Salinity = 0 |
| XLimits = 0, 0.005000000353902578 | EndSect // DATA FILE | Temperature = 10 |
| YLimits = 0, 0.005000000353902578 | | [DATA FILE] |
| ZLimits = 1.799999933485565e-027, | EndSect // PrecipTemp | Touched = 1 |
| 0.007199999876320362 | Enablet // Treelp remp | FILE NAME = .\Indloeb.dfs0 |
| EndSect // AREA 1 | [EvapTemp] | ITEM COUNT = 3 |
| Endoor // INCh_1 | Touched = 1 | ITEM_COUNT = 3 ITEM_NUMBERS = 1, 2, 3 |
| EndSect // DISPERSION_LIMITS | Format = -3 | EndSect // DATA FILE |
| Endoct // Didi Endion_Envirin | ConstantValue = 0 | Endocci // DATA_FILE |
| | Constant value - 0 | |

| E IG / //GOLIDGE 1 | | SAREA 13 |
|-------------------------------|-------------------------------------|------------------------------------|
| EndSect // SOURCE_1 | Salinity = false | [AREA_1] |
| [COLINGE 2] | TimeAveraged = true | Touched = 1 |
| [SOURCE_2] | FILE_NAME = 'aarslev3.dfs2' | Format = 0 |
| Touched = 1 | Title = " | Constant Value = 0 |
| Format = 1 | EndSect // AREA_2 | [DATA_FILE] |
| IncludedInFile = false | E 10 . // OVYERVYE OREGVESO A EVOLG | Touched = 1 |
| Salinity = 0 | EndSect // OUTPUT_SPECIFICATIONS | FILE_NAME = |
| Temperature = 10 | | $ITEM_COUNT = 1$ |
| [DATA_FILE] | [HOT_FILES] | $ITEM_NUMBERS = 1$ |
| Touched $= 1$ | Touched = 1 | EndSect // DATA_FILE |
| $FILE_NAME = . Udloeb.dfs0 $ | MzSEPfsListItemCount = 1 | |
| $ITEM_COUNT = 3$ | GenerateHotData = true | EndSect // AREA_1 |
| $ITEM_NUMBERS = 1, 2, 3$ | TRange = 325000, 325000, 1 | |
| EndSect // DATA_FILE | [AREA_1] | EndSect // FRACTION_2 |
| _ | Touched = 1 | _ |
| EndSect // SOURCE 2 | FILE_NAME = 'Aarslev_hotstart.dfs3' | [FRACTION_3] |
| _ | Title = " | Touched = $\frac{1}{1}$ |
| EndSect // HD_SOURCE_SINK | EndSect // AREA 1 | MzSEPfsListItemCount = 1 |
| | _ | Gamma = 1 |
| [MASS BUDGET] | EndSect // HOT FILES | [AREA 1] |
| Touched = 1 | Endocet W HOT_TIBES | Touched = 1 |
| MzSEPfsListItemCount = 0 | EndSect // | Format = 0 |
| NoOfMassFiles = 0 | HYDRODYNAMIC PARAMETERS | ConstantValue = 0 |
| EndSect // MASS BUDGET | IT DROD I NAMIC_I ARAMETERS | |
| Elidsect // MASS_BUDGET | | [DATA_FILE] |
| OUTDUT ODECUTION TIONS | LADVECTION DISPERSION DADAMETER | Touched = 1 |
| [OUTPUT_SPECIFICATIONS] | [ADVECTION_DISPERSION_PARAMETER | FILE_NAME = |
| Touched = 1 | S] | ITEM_COUNT = 1 |
| MzSEPfsListItemCount = 2 | [OPTION_PARAMETERS] | ITEM_NUMBERS = 1 |
| NumberOfOutputAreas = 2 | EndSect // OPTION_PARAMETERS | EndSect // DATA_FILE |
| [AREA_1] | | |
| Touched = 1 | EndSect // | EndSect // AREA_1 |
| AssociatedArea = 1 | ADVECTION_DISPERSION_PARAMETERS | |
| XRange = 0, 38, 1 | | EndSect // FRACTION_3 |
| YRange = $0, 20, 1$ | [MUD_TRANSPORT_PARAMETERS] | |
| ZRange = 0, 14, 1 | [OPTION PARAMETERS] | [FRACTION 4] |
| TRange = $0,400000,4000$ | EndSect // OPTION_PARAMETERS | Touched = $\overline{1}$ |
| UVelocity = true | _ | MzSEPfsListItemCount = 1 |
| VVelocity = true | [TASK SELECTION] | Gamma = 1 |
| WVelocity = true | Touched = 1 | [AREA_1] |
| Pressure = false | Number_of_layers = 1 | Touched = 1 |
| SurfaceElevation = false | Number_of_fractions = 7 | Format = 0 |
| Density = true | IncludeHeavyMetals = false | ConstantValue = 0 |
| Temperature = false | MTincludesalinity = false | [DATA FILE] |
| XEddy = true | EndSect // TASK SELECTION | Touched = 1 |
| - | Eliusect // TASK_SELECTION | |
| YEddy = false | IDUTIAL CONDITIONOL | FILE_NAME = |
| ZEddy = false | [INITIAL_CONDITIONS] | ITEM_COUNT = 1 |
| TKE = false | Touched = 1 | ITEM_NUMBERS = 1 |
| TKD = false | [INITIAL_CONCENTRATIONS] | EndSect // DATA_FILE |
| Salinity = false | Touched = 1 | |
| TimeAveraged = true | MzSEPfsListItemCount = 7 | EndSect // AREA_1 |
| FILE_NAME = 'aarslev3.dfs3' | [FRACTION_1] | |
| Title = " | Touched = 1 | EndSect // FRACTION_4 |
| EndSect // AREA_1 | MzSEPfsListItemCount = 1 | |
| | Gamma = 1 | [FRACTION_5] |
| [AREA_2] | [AREA_1] | Touched $= 1$ |
| Touched = 1 | Touched $= 1$ | MzSEPfsListItemCount = 1 |
| AssociatedArea = 1 | Format = 0 | Gamma = 1 |
| XRange = 0, 38, 1 | ConstantValue = 0 | [AREA 1] |
| YRange = $0, 20, 1$ | [DATA FILE] | Touched = 1 |
| ZRange = 14, 14, 1 | Touched = 1 | Format = 0 |
| TRange = 0, 400000, 4000 | FILE NAME = | ConstantValue = 0 |
| UVelocity = false | ITEM COUNT = 1 | [DATA FILE] |
| VVelocity = false | ITEM NUMBERS = 1 | Touched = 1 |
| WVelocity = false | EndSect // DATA FILE | FILE NAME = |
| Pressure = false | Engoct // Ditiii_IEE | ITEM COUNT = 1 |
| SurfaceElevation = true | EndSect // AREA 1 | ITEM_COUNT = 1 ITEM_NUMBERS = 1 |
| | Eliuscot // AREA_I | |
| Density = false | EndCost // EDACTION 1 | EndSect // DATA_FILE |
| Temperature = false | EndSect // FRACTION_1 | P 10 . // APP 1 |
| XEddy = false | FFID A CITYONY AL | EndSect // AREA_1 |
| YEddy = false | [FRACTION_2] | - 10 |
| ZEddy = false | Touched = 1 | EndSect // FRACTION_5 |
| TKE = false | MzSEPfsListItemCount = 1 | |
| TKD = false | Gamma = 1 | [FRACTION_6] |

| Touched = 1 | EndSect // | Formulation $= 0$ |
|---|-----------------------------------|----------------------------------|
| MzSEPfsListItemCount = 1 | INITIAL BED SEDIMENT DISTRIBUTION | [AREA 1] |
| Gamma = 1 | | Touched = 1 |
| [AREA 1] | EndSect // INITIAL CONDITIONS | DispersionFactors = |
| Touched = 1 | Endsect // INTINE_CONDITIONS | 0.300000011920929, 1, 0 |
| | [DIGDED GLOVE ODE GUEVO LEVOVO] | |
| Format = 0 | [DISPERSION_SPECIFICATIONS] | EndSect // AREA_1 |
| ConstantValue = 0 | Touched = 1 | |
| [DATA FILE] | [DISPERSION_FACTORS] | EndSect // COMPONENT_6 |
| Touched = 1 | Touched = 1 | _ |
| FILE NAME = | MzSEPfsListItemCount = 7 | [COMPONENT_7] |
| | | |
| ITEM_COUNT = 1 | [COMPONENT_1] | Touched = 1 |
| $ITEM_NUMBERS = 1$ | Touched $= 1$ | MzSEPfsListItemCount = 1 |
| EndSect // DATA_FILE | MzSEPfsListItemCount = 1 | Formulation $= 0$ |
| | Formulation $= 0$ | [AREA_1] |
| EndSect // AREA 1 | [AREA 1] | Touched = 1 |
| Endoce // Titter1 | Touched = 1 | DispersionFactors = |
| E 1C //EDACTION (| | |
| EndSect // FRACTION_6 | DispersionFactors = | 0.300000011920929, 1, 0 |
| | 0.300000011920929, 1, 0 | EndSect // AREA_1 |
| [FRACTION_7] | EndSect // AREA_1 | |
| Touched = $\overline{1}$ | | EndSect // COMPONENT 7 |
| MzSEPfsListItemCount = 1 | EndSect // COMPONENT_1 | |
| Gamma = 1 | Endocct // Colvit OrtErvi_1 | EndSect // DISPERSION FACTORS |
| | ICON MONTENER AL | EndSect // DISPERSION_FACTORS |
| [AREA_1] | [COMPONENT_2] | |
| Touched $= 1$ | Touched = 1 | [DISPERSION_LIMITS] |
| Format = 0 | MzSEPfsListItemCount = 1 | Touched = 1 |
| ConstantValue = 0 | Formulation $= 0$ | MzSEPfsListItemCount = 7 |
| [DATA FILE] | [AREA_1] | [COMPONENT_1] |
| | Touched = 1 | |
| Touched = 1 | | Touched = 1 |
| $FILE_NAME = $ | DispersionFactors = | MzSEPfsListItemCount = 1 |
| $ITEM_COUNT = 1$ | 0.300000011920929, 1, 0 | [AREA_1] |
| $ITEM_NUMBERS = 1$ | EndSect // AREA_1 | Touched = 1 |
| EndSect // DATA_FILE | _ | XLimits = 0, 0.2000000029802322 |
| Endocot // BITTI_TIEE | EndSect // COMPONENT_2 | YLimits = 0, |
| EndCod // ADEA 1 | Endsect // COMI ONENT_2 | 0.003528000088408589 |
| EndSect // AREA_1 | 5001 0001 001 001 | |
| | [COMPONENT_3] | ZLimits = 0, 1.999999994950485e- |
| EndSect // FRACTION_7 | Touched $= 1$ | 006 |
| | MzSEPfsListItemCount = 1 | EndSect // AREA 1 |
| EndSect // | Formulation $= 0$ | _ |
| INITIAL_CONCENTRATIONS | [AREA_1] | EndSect // COMPONENT_1 |
| INTINE_CONCENTIONS | Touched = 1 | Enabet // Colvit OlvElvi_1 |
| INVENTAL DED THICKNIEGG | | FOOL PROVENIES AT |
| [INITIAL_BED_THICKNESS] | DispersionFactors = | [COMPONENT_2] |
| Touched = 1 | 0.300000011920929, 1, 0 | Touched = 1 |
| MzSEPfsListItemCount = 1 | EndSect // AREA 1 | MzSEPfsListItemCount = 1 |
| [LAYER_1] | _ | [AREA_1] |
| Touched = 1 | EndSect // COMPONENT_3 | Touched = 1 |
| MzSEPfsListItemCount = 1 | Endsect // COMI ONEIVI_5 | |
| | EGGN (PONTENTE 42 | XLimits = 0, 0.2000000029802322 |
| [AREA_1] | [COMPONENT_4] | YLimits = 0, |
| Touched $= 1$ | Touched = 1 | 0.003527999855577946 |
| Format = 0 | MzSEPfsListItemCount = 1 | ZLimits = 0, 1.999999994950485e- |
| ConstantValue = 0 | Formulation $= 0$ | 006 |
| [DATA FILE] | [AREA 1] | EndSect // AREA 1 |
| | | Eliasect // AREA_1 |
| Touched = 1 | Touched = 1 | E 10 . // GOL POLYELYE A |
| $FILE_NAME = $ | DispersionFactors = | EndSect // COMPONENT_2 |
| $ITEM_COUNT = 1$ | 0.300000011920929, 1, 0 | |
| ITEM NUMBERS = 1 | EndSect // AREA_1 | [COMPONENT 3] |
| EndSect // DATA FILE | _ | Touched = 1 |
| | EndSect // COMPONENT 4 | MzSEPfsListItemCount = 1 |
| EndSect // AREA 1 | Endocot // Colvin Givervi_i | |
| Eliusect // AREA_1 | [COMPONENT 5] | [AREA_1] |
| | [COMPONENT_5] | Touched = 1 |
| EndSect // LAYER_1 | Touched $= 1$ | XLimits = 0, 0.2000000029802322 |
| | MzSEPfsListItemCount = 1 | YLimits = 0, |
| EndSect // INITIAL BED THICKNESS | Formulation $= 0$ | 0.003527999855577946 |
| | [AREA 1] | ZLimits = 0, 1.999999994950485e- |
| | Touched = 1 | 006 |
| IMITIAL DED CEDIMENT DICTRIDUTE | | |
| [INITIAL_BED_SEDIMENT_DISTRIBUTIO | DispersionFactors = | EndSect // AREA_1 |
| N] | 0.300000011920929, 1, 0 | |
| Touched $= 1$ | EndSect // AREA_1 | EndSect // COMPONENT_3 |
| MzSEPfsListItemCount = 1 | | |
| [BED LAYER 1] | EndSect // COMPONENT_5 | [COMPONENT 4] |
| Fraction_Distribution = 14, 14, 14, 14, | | Touched = 1 |
| | [COMPONENT 4] | |
| 14, 14, 16 | [COMPONENT_6] | MzSEPfsListItemCount = 1 |
| EndSect // BED_LAYER_1 | Touched = 1 | [AREA_1] |
| | MzSEPfsListItemCount = 1 | Touched = 1 |

| XLimits = 0, 0.2000000029802322 | | |
|---|--|---|
| YLimits = 0, | [COMPONENT_4] | [TIME_AND_SPACE_VARYING_WAVES] |
| 0.003527999855577946 ZLimits = 0, 1.99999994950485e- | Touched = 1 MzSEPfsListItemCount = 0 | Touched = 0 [DATA_FILE] |
| 006 | EndSect // COMPONENT 4 | Touched = 1 |
| EndSect // AREA_1 | _ | FILE_NAME = |
| | [COMPONENT_5] | ITEM_COUNT = 1 |
| EndSect // COMPONENT_4 | Touched = 1 | ITEM_NUMBERS = 1 |
| [COMPONENT 5] | MzSEPfsListItemCount = 0 EndSect // COMPONENT 5 | EndSect // DATA_FILE |
| Touched = 1 | Enable Westing (1721/172 | EndSect // |
| MzSEPfsListItemCount = 1 | [COMPONENT_6] | TIME_AND_SPACE_VARYING_WAVES |
| [AREA_1] | Touched = 1 | ED LELD LOD |
| Touched = 1 XLimits = 0, 0.2000000029802322 | MzSEPfsListItemCount = 0 | [DATABASE] Touched = 0 |
| YLimits = 0, 0.2000000029802322 | EndSect // COMPONENT_6 | MzSEPfsListItemCount = 1 |
| 0.003527999855577946 | [COMPONENT 7] | Data Base File Name 1 1 1 = " |
| ZLimits = 0, 1.99999994950485e- | Touched = 1 | [WIND_SPEED] |
| 006 | MzSEPfsListItemCount = 0 | Touched = 1 |
| EndSect // AREA_1 | EndSect // COMPONENT_7 | StartingValueOfWindSpeed = 5 IncrementValueOfWindSpeed = 5 |
| EndSect // COMPONENT 5 | EndSect // MT BOUNDARIES | NumberOfWindSpeeds = 1 |
| Enabote // Colvin Oliver(1_5 | Bildoct // MI_BOOKBINGES | EndSect // WIND SPEED |
| [COMPONENT_6] | [MT_SOURCES] | _ |
| Touched = 1 | Touched = 1 | [WIND_DIRECTION] |
| MzSEPfsListItemCount = 1 | MzSEPfsListItemCount = 2 [SOURCE 1] | Touched = 1 StartingValueOfWindDirection = 90 |
| [AREA_1] Touched = 1 | Touched = 1 | IncrementValueOfWindDirection = |
| XLimits = 0, 0.2000000029802322 | Format = 0 | 90 |
| YLimits = 0, | ConstantValues = 0.01 , 0.01 , 0.01 , 0.01 , | NumberOfWindDirections = 1 |
| 0.003527999855577946 | 0.01, 0.01, 0.01 | EndSect // WIND_DIRECTION |
| ZLimits = 0, 1.99999994950485e- 006 | [DATA_FILE] Touched = 1 | [WATER LEVEL] |
| EndSect // AREA 1 | FILE NAME = | Touched = 1 |
| = | .\7_fraktioner_new_dist.dfs0 | StartingValueOfWaterLevel = 0 |
| EndSect // COMPONENT_6 | ITEM_COUNT = 7 | IncrementValueOfWaterLevel = 1 |
| [COMPONENT 7] | ITEM_NUMBERS = 1, 2, 3, 4, 5, 6, 7 EndSect // DATA_FILE | NumberOfWaterLevels = 1 EndSect // WATER LEVEL |
| Touched = 1 | Elidocci // DATA_TILE | Eliaseet // WATER_ELVEE |
| MzSEPfsListItemCount = 1 | EndSect // SOURCE_1 | EndSect // DATABASE |
| [AREA_1] | racy m cm al | P. 10 // WYAYYEG |
| Touched = 1 XLimits = 0, 0.2000000029802322 | [SOURCE_2] Touched = 1 | EndSect // WAVES |
| YLimits = 0, 0.2000000027802322 | Format = -1 | EndSect // FORCINGS |
| 0.003527999855577946 | Constant Values = $0, 0, 0, 0, 0, 0, 0$ | |
| ZLimits = 0, 1.999999994950485e | [DATA_FILE] | [WATER_COLUMN] |
| 006 | Touched = 1 | SandFractionDescription = 0 |
| EndSect // AREA_1 | FILE_NAME = ITEM_COUNT = 7 | IncludeDensityFeedbackOnHD = true [SAND_FRACTIONS] |
| EndSect // COMPONENT 7 | ITEM_COUNT / ITEM NUMBERS = 1, 2, 3, 4, 5, 6, 7 | Mean Fall Velocity Fraction 1 = |
| _ | EndSect // DATA_FILE | 0.001 |
| EndSect // DISPERSION_LIMITS | E IS A MOOVED OF A | Sand_fraction_1 = false |
| EndSect // | EndSect // SOURCE_2 | Mean_Fall_Velocity_Fraction_2 = 0.001 |
| DISPERSION_SPECIFICATIONS | EndSect // MT SOURCES | Sand fraction $2 = \text{false}$ |
| _ | _ | Mean_Fall_Velocity_Fraction_3 = |
| [MT_BOUNDARIES] | [FORCINGS] | 0.001 |
| Touched = 1 MzSEPfsListItemCount = 7 | Touched = 1 | Sand_fraction_3 = false |
| [COMPONENT 1] | [WAVES] Touched = 0 | Mean_Fall_Velocity_Fraction_4 = 0.001 |
| Touched = 1 | WaveFormat = 0 | Sand fraction $4 = \text{false}$ |
| MzSEPfsListItemCount = 0 | UseInterpolationInTime = false | Mean_Fall_Velocity_Fraction_5 = |
| EndSect // COMPONENT_1 | MinWaterDepthForIncludingWaves = 0 | 0.001 |
| [COMPONENT 2] | Include_Liquefaction = false Liquefaction factor = 1 | Sand_fraction_5 = false Mean Fall Velocity Fraction 6 = |
| Touched = 1 | [CONSTANT_WAVES] | 0.001 |
| MzSEPfsListItemCount = 0 | Touched $= 0$ | Sand_fraction_6 = false |
| EndSect // COMPONENT_2 | SignificantWaveHeight = 0.3 | Mean_Fall_Velocity_Fraction_7 = |
| [COMPONENT 3] | ZeroCrossingWavePeriod = 3 MeanWaveDirection = 0 | 0.001 Sand fraction 7 = false |
| Touched = 1 | EndSect // CONSTANT WAVES | EndSect // SAND FRACTIONS |
| MzSEPfsListItemCount = 0 | | |
| EndSect // COMPONENT_3 | | [VISCOSITY_PARAMETERS] |

| Touched = 1 | EndSect // SEDIMENT_FRACTION_3 | FILE_NAME = |
|--|--|--|
| DensityOfSediment = 1600 | | ITEM_COUNT = 1 |
| BaseInViscosityFormula = 100 ConcInViscosityFormula = 600 | [SEDIMENT_FRACTION_4] Touched = 1 | ITEM_NUMBERS = 1 EndSect // DATA FILE |
| EndSect // VISCOSITY_PARAMETERS | MzSEPfsListItemCount = 1 | EndSect // DATA_FILE |
| Emason // Viscosii i_i ind ii/E i Ext | Gamma = 1 | EndSect // AREA 1 |
| [SETTLING] | [AREA_1] | _ |
| Touched = 1 | Touched $= 1$ | EndSect // SEDIMENT_FRACTION_7 |
| Flocculation_Description = 0 | Format = 0 | F. 10 // GETTY D./ G |
| Hindered_Settling_Description = 0 RhoSed = 2650 | ConstantValue = 0.00023999999393709 | EndSect // SETTLING |
| GelPoint = 50 | [DATA FILE] | |
| CHinder = 10 | Touched = 1 | [CRITICAL SHEAR STRESS DEPOSITION |
| Cfloc = 0.01 | $FILE_NAME = $ | j |
| Wsn = 1 | ITEM_COUNT = 1 | Touched = 1 |
| [SEDIMENT_FRACTION_1] Touched = 1 | ITEM_NUMBERS = 1 EndSect // DATA FILE | [SEDIMENT_FRACTION_1] Touched = 1 |
| MzSEPfsListItemCount = 1 | Elidsect // DATA_FILE | MzSEPfsListItemCount = 1 |
| Gamma = 1 | EndSect // AREA 1 | Gamma = 1 |
| [AREA_1] | _ | [AREA_1] |
| Touched = 1 | EndSect // SEDIMENT_FRACTION_4 | Touched = 1 |
| Format = 0 | [GEDINGENT ED A CTION 5] | Format = 0 |
| ConstantValue = 0.003100000089034438 | [SEDIMENT_FRACTION_5] Touched = 1 | ConstantValue = 0.02999999932944775 |
| [DATA FILE] | MzSEPfsListItemCount = 1 | [DATA FILE] |
| Touched = 1 | Gamma = 1 | Touched = 1 |
| $FILE_NAME = $ | [AREA_1] | $FILE_NAME = $ |
| ITEM_COUNT = 1 | Touched = 1 | ITEM_COUNT = 1 |
| ITEM_NUMBERS = 1 EndSect // DATA_FILE | Format = 0 | ITEM_NUMBERS = 1 |
| Elidsect // DATA_FILE | ConstantValue = 0.00015999999595806 | EndSect // DATA_FILE |
| EndSect // AREA_1 | [DATA_FILE] | EndSect // AREA_1 |
| | Touched = 1 | |
| EndSect // SEDIMENT_FRACTION_1 | FILE_NAME = | EndSect // SEDIMENT_FRACTION_1 |
| [SEDIMENT FRACTION 2] | ITEM_COUNT = 1 ITEM_NUMBERS = 1 | [SEDIMENT FRACTION 2] |
| Touched = 1 | EndSect // DATA_FILE | Touched = 1 |
| MzSEPfsListItemCount = 1 | | MzSEPfsListItemCount = 1 |
| Gamma = 1 | EndSect // AREA_1 | Gamma = 1 |
| [AREA_1] | E IC //CEDIMENT EDACTION C | [AREA_1] |
| Touched = 1 Format = 0 | EndSect // SEDIMENT_FRACTION_5 | Touched = 1 Format = 0 |
| ConstantValue = | [SEDIMENT FRACTION 6] | ConstantValue = |
| 0.001099999994039536 | Touched = $\overline{1}$ | 0.0299999932944775 |
| [DATA_FILE] | MzSEPfsListItemCount = 1 | [DATA_FILE] |
| Touched = 1 | Gamma = 1 | Touched = 1 |
| FILE_NAME = ITEM_COUNT = 1 | [AREA_1] Touched = 1 | FILE_NAME = ITEM_COUNT = 1 |
| ITEM_COUNT = 1 ITEM_NUMBERS = 1 | Format = 0 | ITEM_COUNT = 1 ITEM_NUMBERS = 1 |
| EndSect // DATA FILE | ConstantValue = | EndSect // DATA FILE |
| _ | 6.70000008540228e-005 | _ |
| EndSect // AREA_1 | [DATA_FILE] | EndSect // AREA_1 |
| EndSect // SEDIMENT FRACTION 2 | Touched = 1 FILE NAME = | EndSect // SEDIMENT FRACTION 2 |
| EndSect // SEDIMENT_PRACTION_2 | ITEM COUNT = 1 | Eliuseet // SEDIMENT_PRACTION_2 |
| [SEDIMENT_FRACTION_3] | $ITEM_NUMBERS = 1$ | [SEDIMENT_FRACTION_3] |
| Touched = $\overline{1}$ | EndSect // DATA_FILE | Touched = $\overline{1}$ |
| MzSEPfsListItemCount = 1 | | MzSEPfsListItemCount = 1 |
| Gamma = 1 | EndSect // AREA_1 | Gamma = 1 |
| [AREA_1] Touched = 1 | EndSect // SEDIMENT FRACTION 6 | [AREA_1] Touched = 1 |
| Format = 0 | Emasor // SESTIMENT_TRACTION_O | Format = 0 |
| ConstantValue = | [SEDIMENT_FRACTION_7] | ConstantValue = |
| 0.0004499999922700226 | Touched = 1 | 0.0299999932944775 |
| [DATA_FILE] | MzSEPfsListItemCount = 1 | [DATA_FILE] |
| Touched = 1 FILE NAME = | Gamma = 1 [AREA_1] | Touched = 1 FILE NAME = |
| ITEM_COUNT = 1 | Touched = 1 | ITEM COUNT = 1 |
| ITEM_NUMBERS = 1 | Format = 0 | ITEM_NUMBERS = 1 |
| EndSect // DATA_FILE | ConstantValue = | EndSect // DATA_FILE |
| E IC / //ADEA 1 | 4.800000169780105e-005 | P. 10 // A D T |
| EndSect // AREA_1 | [DATA_FILE] Touched = 1 | EndSect // AREA_1 |
| | roucheu – r | |

| EndSect // SEDIMENT FRACTION 3 | FILE NAME = | $ITEM_COUNT = 1$ |
|------------------------------------|----------------------------------|------------------------------------|
| | ITEM COUNT = 1 | ITEM NUMBERS = 1 |
| [SEDIMENT_FRACTION_4] | ITEM_NUMBERS = 1 | EndSect // DATA FILE |
| Touched = $\frac{1}{1}$ | EndSect // DATA_FILE | = |
| MzSEPfsListItemCount = 1 | _ | EndSect // AREA 1 |
| Gamma = 1 | EndSect // AREA 1 | _ |
| [AREA_1] | _ | EndSect // BED_LAYER_1 |
| Touched $= 1$ | EndSect // SEDIMENT_FRACTION_7 | |
| Format = 0 | | EndSect // DRY DENSITY |
| ConstantValue = | EndSect // | _ |
| 0.0299999932944775 | CRITICAL_SHEAR_STRESS_DEPOSITION | [BED_ROUGHNESS] |
| [DATA_FILE] | | Touched $= 1$ |
| Touched $= 1$ | EndSect // WATER_COLUMN | MzSEPfsListItemCount = 1 |
| $FILE_NAME = $ | | [AREA_1] |
| $ITEM_COUNT = 1$ | [BED_PARAMETERS] | Touched $= 1$ |
| $ITEM_NUMBERS = 1$ | [EROSION_COEFFICIENTS] | Format = 0 |
| EndSect // DATA_FILE | CMax = 50 | ConstantValue = 0.01 |
| | [BED_LAYER_1] | [DATA_FILE] |
| EndSect // AREA_1 | Touched = 1 | Touched = 1 |
| E 10 . // GEDY (EVE ED 1 CEVO) / 1 | MzSEPfsListItemCount = 1 | FILE_NAME = |
| EndSect // SEDIMENT_FRACTION_4 | Em = 1 | ITEM_COUNT = 1 |
| EGEDINENT ED ACTION 51 | Erosion_Description = 0 | ITEM_NUMBERS = 1 |
| [SEDIMENT_FRACTION_5] | [AREA_1] | EndSect // DATA_FILE |
| Touched = 1 | Touched = 1 | E 10 / // ADEA 1 |
| MzSEPfsListItemCount = 1 | Format = 0 | EndSect // AREA_1 |
| Gamma = 1 | Constant Value = 5e-005 | E 10 4 // DED BOUGIDIEGG |
| [AREA_1] | [DATA_FILE] | EndSect // BED_ROUGHNESS |
| Touched = 1 | Touched = 1 | [TD ANGITION] |
| Format = 0 | FILE_NAME = | [TRANSITION] |
| Constant Value = | ITEM_COUNT = 1 | Touched = 1 |
| 0.0199999955296516 | ITEM_NUMBERS = 1 | MzSEPfsListItemCount = 0 |
| [DATA_FILE] | EndSect // DATA_FILE | IncludeTransitionBetweenLayers = 0 |
| Touched = 1 | EndSect // ADEA 1 | EndSect // TRANSITION |
| FILE_NAME = | EndSect // AREA_1 | E. 4C4 // DED. DAD AMETERS |
| ITEM_COUNT = 1 ITEM_NUMBERS = 1 | EndSort // DED I AVED 1 | EndSect // BED_PARAMETERS |
| EndSect // DATA FILE | EndSect // BED_LAYER_1 | [MASS DIDGET] |
| EndSect // DATA_FILE | | [MASS_BUDGET] Touched = 0 |
| EndSect // AREA 1 | [CRITICAL_SHEAR_STRESS_EROSION] | MzSEPfsListItemCount = 0 |
| Elidocci // AREA_1 | [BED LAYER 1] | NoOfMassFiles = 0 |
| EndSect // SEDIMENT_FRACTION_5 | Touched = 1 | EndSect // MASS_BUDGET |
| Endocet // SEDIMENT_TRACTION_S | MzSEPfsListItemCount = 1 | Endocct // WINSS_BODGET |
| [SEDIMENT_FRACTION_6] | [AREA 1] | [MT OUTPUT] |
| Touched = 1 | Touched = 1 | Touched = 1 |
| MzSEPfsListItemCount = 1 | Format = 0 | MzSEPfsListItemCount = 3 |
| Gamma = 1 | ConstantValue = 0.1 | NumberOfOutputAreas = 3 |
| [AREA 1] | [DATA FILE] | [AREA 1] |
| Touched = 1 | Touched = 1 | Touched = 1 |
| Format $= 0$ | FILE NAME = | AssociatedArea = 1 |
| ConstantValue = | ITEM COUNT = 1 | XRange = 0, 38, 1 |
| 0.00999999776482582 | ITEM_NUMBERS = 1 | YRange = $0, 20, 1$ |
| [DATA FILE] | EndSect // DATA FILE | ZRange = 0, 14, 1 |
| Touched = 1 | _ | TRange = 0 , 400000 , 4000 |
| $FILE_NAME = $ | EndSect // AREA_1 | Title = " |
| $ITEM_COUNT = 1$ | _ | FILE_NAME = 'aarslev3_MT.dfs3' |
| $ITEM_NUMBERS = 1$ | EndSect // BED_LAYER_1 | [MAIN_OUTPUT_ITEMS] |
| EndSect // DATA_FILE | | SSC_Fraction_1 = true |
| | EndSect // | $SSC_Fraction_2 = true$ |
| EndSect // AREA_1 | CRITICAL_SHEAR_STRESS_EROSION | $SSC_Fraction_3 = true$ |
| | | $SSC_Fraction_4 = true$ |
| EndSect // SEDIMENT_FRACTION_6 | EndSect // EROSION_COEFFICIENTS | $SSC_Fraction_5 = true$ |
| | | $SSC_Fraction_6 = true$ |
| [SEDIMENT_FRACTION_7] | [DRY_DENSITY] | SSC_Fraction_7 = true |
| Touched $= 1$ | [BED_LAYER_1] | Bed_Mass_Layer_1_Fraction_1 = |
| MzSEPfsListItemCount = 1 | Touched $= 1$ | false |
| Gamma = 1 | MzSEPfsListItemCount = 1 | Bed_Mass_Layer_1_Fraction_2 = |
| [AREA_1] | [AREA_1] | false |
| Touched = 1 | Touched = 1 | Bed_Mass_Layer_1_Fraction_3 = |
| Format = 0 | Format = 0 | false |
| ConstantValue = | ConstantValue = 300 | Bed_Mass_Layer_1_Fraction_4 = |
| 0.00999999776482582 | [DATA_FILE] | false |
| [DATA_FILE] | Touched = 1 | Bed_Mass_Layer_1_Fraction_5 = |
| Touched $= 1$ | FILE_NAME = | false |

| Bed_Mass_Layer_1_Fraction_6 = | EndSect // | Settling_Velocity_Fraction_2 = fals |
|--|--|--|
| false | PROCESS_OUTPUT_ITEMS | Settling_Velocity_Fraction_3 = fals |
| Bed_Mass_Layer_1_Fraction_7 = | N 000 4 61 | Settling_Velocity_Fraction_4 = fals |
| false EndSect // MAIN OUTPUT ITEMS | NoOfComponents = 61 EndSect // AREA 1 | Settling_Velocity_Fraction_5 = fals Settling_Velocity_Fraction_6 = fals |
| Eliasect // WAIN_OUTFUT_ITEMS | Eliusect // AREA_I | Settling Velocity Fraction 7 = fals |
| [DERIVED OUTPUT ITEMS] | [AREA 2] | Deposition Fraction 1 = false |
| Bed Thickness Layer 1 = false | Touched = 1 | Deposition Fraction 2 = false |
| Net Deposition Fraction 1 = false | AssociatedArea = 1 | Deposition Fraction 3 = false |
| Net Deposition Fraction 2 = false | XRange = 0, 38, 1 | Deposition Fraction 4 = false |
| Net Deposition Fraction 3 = false | YRange = 0, 20, 1 | Deposition Fraction $5 = \text{false}$ |
| Net Deposition Fraction 4 = false | ZRange = 14, 14, 1 | Deposition Fraction $6 = \text{false}$ |
| Net_Deposition_Fraction_5 = false | TRange = 0, 400000, 4000 | Deposition_Fraction_7 = false |
| Net_Deposition_Fraction_6 = false | Title = " | Erosion_Fraction_1 = false |
| Net_Deposition_Fraction_7 = false | FILE_NAME = 'aarslev_MT.dfs2' | Erosion_Fraction_2 = false |
| | [MAIN_OUTPUT_ITEMS] | Erosion_Fraction_3 = false |
| Net_Deposition_Accumulated_Fraction_1 = | SSC_Fraction_1 = false | Erosion_Fraction_4 = false |
| false | SSC_Fraction_2 = false | Erosion_Fraction_5 = false |
| N-t Diti Al-t-d Eti 2- | SSC_Fraction_3 = false | Erosion_Fraction_6 = false |
| Net_Deposition_Accumulated_Fraction_2 = false | SSC_Fraction_4 = false SSC_Fraction_5 = false | Erosion_Fraction_7 = false U Velocity = false |
| laise | SSC_Fraction_5 = false SSC_Fraction_6 = false | V Velocity = false |
| Net Deposition Accumulated Fraction 3 = | SSC_Fraction_0 false | W Velocity = false |
| false | Bed Mass Layer 1 Fraction 1 = true | Wave Height = false |
| | Bed_Mass_Layer_1_Fraction_2 = true | Wave Period = false |
| Net Deposition Accumulated Fraction 4= | Bed Mass Layer 1 Fraction 3 = true | Wave Direction = false |
| false | Bed_Mass_Layer_1_Fraction_4 = true | EndSect // |
| | Bed_Mass_Layer_1_Fraction_5 = true | PROCESS_OUTPUT_ITEMS |
| Net_Deposition_Accumulated_Fraction_5 = | Bed_Mass_Layer_1_Fraction_6 = true | |
| false | Bed_Mass_Layer_1_Fraction_7 = true | NoOfComponents = 61 |
| M. B. W. A. L. LE C. C. | EndSect // MAIN_OUTPUT_ITEMS | EndSect // AREA_2 |
| Net_Deposition_Accumulated_Fraction_6 = false | [DEDIVED OUTDUT ITEMS] | FADEA 21 |
| laise | [DERIVED_OUTPUT_ITEMS] Bed_Thickness_Layer_1 = false | [AREA_3] Touched = 1 |
| Net Deposition Accumulated Fraction 7 = | Net_Deposition_Fraction_1 = false | AssociatedArea = 1 |
| false | Net_Deposition_Fraction_2 = false | XRange = 37, 37, 1 |
| Net_Deposition_Accumulated_Total = | Net_Deposition_Fraction_3 = false | YRange = 10, 10, 1 |
| false | Net_Deposition_Fraction_4 = false | ZRange = 12, 12, 1 |
| Total_Bed_Thickness_Change = false | Net_Deposition_Fraction_5 = false | TRange = $0, 400000, 4000$ |
| Total_Bed_Mass_Change = false | Net_Deposition_Fraction_6 = false | Title = " |
| Total_Ssc = false EndSect // | Net_Deposition_Fraction_7 = false | FILE_NAME = 'aarslev3_MT.dfs0' [MAIN_OUTPUT_ITEMS] |
| DERIVED_OUTPUT_ITEMS | Net Deposition Accumulated Fraction 1 = | SSC Fraction 1 = true |
| DERIVED_OCTION_TIEMS | true | SSC_Fraction_2 = true |
| [PROCESS OUTPUT ITEMS] | | SSC Fraction 3 = true |
| Bed Shear Stress = false | Net_Deposition_Accumulated_Fraction_2 = | SSC Fraction 4 = true |
| Settling_Velocity_Fraction_1 = false | true | SSC_Fraction_5 = true |
| Settling_Velocity_Fraction_2 = false | | $SSC_Fraction_6 = true$ |
| Settling_Velocity_Fraction_3 = false | Net_Deposition_Accumulated_Fraction_3 = | $SSC_Fraction_7 = true$ |
| Settling_Velocity_Fraction_4 = false | true | Bed_Mass_Layer_1_Fraction_1 = |
| Settling_Velocity_Fraction_5 = false | N. B. W. A. L. IB. C. A. | false |
| Settling_Velocity_Fraction_6 = false Settling_Velocity_Fraction_7 = false | Net_Deposition_Accumulated_Fraction_4 = true | Bed_Mass_Layer_1_Fraction_2 = false |
| Deposition Fraction 1 = false | truc | Bed_Mass_Layer_1_Fraction_3 = |
| Deposition Fraction 2 = false | Net Deposition Accumulated Fraction 5 = | false |
| Deposition Fraction 3 = false | true | Bed_Mass_Layer_1_Fraction_4 = |
| Deposition_Fraction_4 = false | | false |
| Deposition_Fraction_5 = false | Net_Deposition_Accumulated_Fraction_6 = | Bed_Mass_Layer_1_Fraction_5 = |
| Deposition_Fraction_6 = false | true | false |
| Deposition_Fraction_7 = false Erosion Fraction 1 = false | Not Deposition Assumulated Fraction 7 = | Bed_Mass_Layer_1_Fraction_6 = |
| Erosion_Fraction_1 = false Erosion_Fraction_2 = false | Net_Deposition_Accumulated_Fraction_7 = true | false Bed Mass Layer 1 Fraction 7= |
| Erosion Fraction 3 = false | Net Deposition Accumulated Total = | false |
| Erosion_Fraction_4 = false | true | EndSect // MAIN_OUTPUT_ITEMS |
| Erosion_Fraction_ $5 = false$ | Total_Bed_Thickness_Change = true | |
| Erosion_Fraction_ $6 = false$ | Total_Bed_Mass_Change = true | [DERIVED_OUTPUT_ITEMS] |
| Erosion_Fraction_7 = false | Total_Ssc = false | Bed_Thickness_Layer_1 = false |
| U_Velocity = true | EndSect // | Net_Deposition_Fraction_1 = false |
| V_Velocity = true | DERIVED_OUTPUT_ITEMS | Net_Deposition_Fraction_2 = false |
| W_Velocity = true Wave Height = false | [PROCESS OUTPUT ITEMS] | Net_Deposition_Fraction_3 = false Net Deposition Fraction 4 = false |
| Wave_Period = false | Bed Shear Stress = true | Net_Deposition_Fraction_4 = Talse Net_Deposition_Fraction_5 = false |
| Wave_Direction = false | Settling_Velocity_Fraction_1 = false | Net Deposition Fraction 6 = false |
| - | . 5_ 9 | _ 1 |

| Net Deposition Fraction 7 = false | 1 | [AD_PRECIPITATION] |
|--|--|---|
| | [MODEL_DEFINITION] | Touched $= 0$ |
| Net_Deposition_Accumulated_Fraction_1 = false | Touched = 0 ModelDefinitionFile = | MzSEPfsListItemCount = 0 EndSect // AD_PRECIPITATION |
| idisc | IntegrationMethod = 1 | Eliusect // AD_FRECIFITATION |
| Net_Deposition_Accumulated_Fraction_2 = | UpdateFrequency = 1 | [AD_DEPOSITION] |
| false | DisableProcesses = false | IncludeSurfaceDeposition = false |
| Net Deposition Accumulated Fraction 3 = | EndSect // MODEL_DEFINITION | IncludeSoilDeposition = false [AD DEPOSITION SOIL] |
| false | [STATE_VARIABLES] | Touched = 0 |
| | Touched = 0 | MzSEPfsListItemCount = 0 |
| Net_Deposition_Accumulated_Fraction_4 = | MzSEPfsListItemCount = 0 | EndSect // AD_DEPOSITION_SOIL |
| false | NoOfComponents = 0 EndSect // STATE VARIABLES | [AD DEPOSITION SURFACE] |
| Net_Deposition_Accumulated_Fraction_5 = | Endott // STITE_TIME ISSES | Touched = 0 |
| false | [INITIAL_CONDITIONS] | MzSEPfsListItemCount = 0 |
| Net Denesition Assumpted Freeting (| Touched = 0 | EndSect // |
| Net_Deposition_Accumulated_Fraction_6 = false | MzSEPfsListItemCount = 0 EndSect // INITIAL_CONDITIONS | AD_DEPOSITION_SURFACE |
| luise | Endsect // INTINE_CONDITIONS | EndSect // AD DEPOSITION |
| Net_Deposition_Accumulated_Fraction_7 = | [AD_TRANSPORT_PARAMETERS] | _ |
| false | [AD_BOUNDARY] | EndSect // |
| Net_Deposition_Accumulated_Total = false | Touched = 0 MzSEPfsListItemCount = 0 | AD_TRANSPORT_PARAMETERS |
| Total Bed Thickness Change = false | EndSect // AD_BOUNDARY | [CONSTANTS] |
| Total_Bed_Mass_Change = false | | Touched = 0 |
| $Total_Ssc = true$ | [AD_DISPERSION] | MzSEPfsListItemCount = 0 |
| EndSect // | ImplicitVerticalDispersionScheme = false | NoOfConstants = 0 EndSect // CONSTANTS |
| DERIVED_OUTPUT_ITEMS | [AD DISPERSION FACTOR] | Endsect // CONSTAINTS |
| [PROCESS_OUTPUT_ITEMS] | Touched = 0 | [FORCINGS] |
| Bed_Shear_Stress = false | MzSEPfsListItemCount = 0 | Touched = 0 |
| Settling_Velocity_Fraction_1 = false | EndSect // | MzSEPfsListItemCount = 0 |
| Settling_Velocity_Fraction_2 = false Settling_Velocity_Fraction_3 = false | AD_DISPERSION_FACTOR | NoOfForcings = 0 EndSect // FORCINGS |
| Settling_Velocity_Fraction_4 = false | [AD DISPERSION LIMIT] | Endset // Porchvos |
| Settling_Velocity_Fraction_5 = false | Touched = 0 | [MASS_BUDGET] |
| Settling_Velocity_Fraction_6 = false | MzSEPfsListItemCount = 0 | Touched = 0 |
| Settling_Velocity_Fraction_7 = false Deposition Fraction 1 = false | EndSect // AD_DISPERSION_LIMIT | MzSEPfsListItemCount = 0 NoOfMassFiles = 0 |
| Deposition_Fraction_1 = false Deposition_Fraction_2 = false | EndSect // AD DISPERSION | EndSect // MASS_BUDGET |
| Deposition_Fraction_3 = false | Endow Wild-Biol Biolo | Emasout // IMI ISS_B SB SB1 |
| Deposition_Fraction_4 = false | [AD_SOURCE_AND_SINK] | [RESULTS] |
| Deposition_Fraction_5 = false | Touched = 0 | Touched = 0 |
| Deposition_Fraction_6 = false Deposition_Fraction_7 = false | MzSEPfsListItemCount = 2 [SOURCE SINK 1] | MzSEPfsListItemCount = 0 [ADDITIONAL_OPTIONAL_OUTPUT] |
| Erosion Fraction 1 = false | Touched = 0 | NoItems = 0 |
| Erosion_Fraction_2 = false | Format = 0 | EndSect // |
| Erosion_Fraction_3 = false | ConstantValues = 0 | ADDITIONAL_OPTIONAL_OUTPUT |
| Erosion_Fraction_4 = false Erosion_Fraction_5 = false | [DATA_FILE] Touched = 0 | Normal and Construct Assess = 0 |
| Erosion Fraction 6 = false | FILE NAME = | NumberOfOutputAreas = 0 EndSect // RESULTS |
| Erosion Fraction 7 = false | ITEM COUNT = 0 | Enabet // RESOLIS |
| $U_Velocity = false$ | ITEM_NUMBERS = | EndSect // ECO_LAB_PARAMETERS |
| V_Velocity = false | EndSect // DATA_FILE | E 10 - //NOVE2 ELOW MODEL |
| W_Velocity = false Wave Height = false | EndSect // SOURCE SINK 1 | EndSect // MIKE3_FLOW_MODEL |
| Wave Period = false | Elidsett // SOURCE_SHVK_I | |
| Wave_Direction = false | [SOURCE_SINK_2] | |
| EndSect // | Touched = 0 | |
| PROCESS_OUTPUT_ITEMS | Format = 0 | |
| NoOfComponents = 61 | ConstantValues = 0 [DATA_FILE] | |
| EndSect // AREA 3 | Touched = 0 | |
| _ | FILE_NAME = | |
| EndSect // MT_OUTPUT | ITEM_COUNT = 0 | |
| EndSect // | ITEM_NUMBERS = EndSect_// DATA_FILE | |
| EndSect // MUD_TRANSPORT_PARAMETERS | EndSect // DATA_FILE | |
| | EndSect // SOURCE SINK 2 | |
| [ECO_LAB_PARAMETERS] | | |
| [OPTION_PARAMETERS] | EndSect // AD_SOURCE_AND_SINK | |
| EndSect // OPTION_PARAMETERS | | l |