Sisyphe

Reference Manual

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AVERTISSEMENT / CAUTION

Contents

1. Detail list of keywords

1.1 ACTIVE LAYER THICKNESS

Type : Real
Dimension : 0
Mnemo ELAY0
DEFAULT VALUE : 10000
French keyword : EPAISSEUR DE COUCHE ACTIVE
Thickness for bed stratification. Composition of first layer is used to compute bed load transport rate. If you do not want a stratification, use a large value

1.2 B VALUE FOR THE BIJKER FORMULA

Type : Real
Dimension : -1
Mnemo BIJK
DEFAULT VALUE : 2.D0
French keyword : COEFFICIENT B DE LA FORMULE DE BIJKER
b value for the Bijker formula

1.3 BED LOAD

Type : Logical
Dimension : -1
Mnemo
DEFAULT VALUE : YES
French keyword : CHARRIAGE
TODO: WRITE HELP FOR THAT KEYWORD

1.4 BED ROUGHNESS PREDICTION

Type : Logical
Dimension : 0
Mnemo KSPRED
DEFAULT VALUE : NO
French keyword : PREDICTION DE LA RUGOSITE
The bed roughness is predicted according to the selected BED ROUGHNESS PREDICTOR

OPTION. In case of coupling with Telemac2d, the calculated bed roughness is sent to Telemac. The FRICTION COEFFICIENT and FRICTION LAW are no longer used (KFROT is set to 5)

1.5 BED ROUGHNESS PREDICTOR OPTION

Type : Integer
Dimension : 1
Mnemo IKS
DEFAULT VALUE : 1
French keyword : `OPTION DU PREDICTEUR DE RUGOSITE`
1: Flat bed, 2: Rippled bed, 3: Dunes and mega ripples (Method of Van Rijn)

1.6 BED-LOAD TRANSPORT FORMULA

Type : Integer
Dimension : -1
Mnemo ICF
DEFAULT VALUE : 1
French keyword : `FORMULE DE TRANSPORT SOLIDE`
10 bed-load or total load transport formulas are implemented in SISYPHE. The formula Ne3, Ne30 and Ne9 should not be used in the case of coupling with the suspension. The formula Ne4, Ne5, Ne8 and Ne9 model the transport under the combined action of currents and waves : 1 : MEYER-PETER (bed load) 2 : EINSTEIN-BROWN (bed load) 3 : ENGELUND-HANSEN + CHOLLET AND CUNGE (VERSION 5.3) 30: ENGELUND-HANSEN (total) 4 : BIJKER (bed load + suspension) 5 : SOULSBY - VAN RIJN (bed load + suspension) 6 : HUNZIKER (only for sand grading) IN THIS CASE HIDING FACTOR KEYWORD DISCARDED And Hunziker formula used 7 : VAN RIJN (bed load) 8 : BAILARD (bed load + suspension) 9 : DIBAJNIA ET WATANABE (total) Users can also program other formulas (subroutine QS-FORM.f) setting this key word to zero : 0 : FORMULA PROGRAMMED BY USER Warning : it is not then possible to choose the option VARIABLE TIME-STEP

1.7 BETA

Type : Real
Dimension : -1
Mnemo
DEFAULT VALUE : 1.3
French keyword : `BETA`
Specifies the value of the beta coefficient used in the Koch and Flokstra slope effect formulation.

1.8 BINARY OF THE PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : 'STD'
French keyword : `STANDARD DU FICHIER PRECEDENT SEDIMENTOLOGIQUE`
Binary file type used for writing the previous sedimentological computation results file. This type depends on the machine on which the file was generated. The possible values are the same as for the geometry file.

1.9 BOTTOM TOPOGRAPHY FILE

Type : String
Dimension : -1
Mnemo SIS_FILES(SISFON)
DEFAULT VALUE : ”
French keyword : FICHIER DES FONDS
Name of the possible file containing the bathymetric data.

1.10 BOUNDARY CONDITIONS FILE

Type : String
Dimension : -1
Mnemo SIS_FILES(SISLIM)
DEFAULT VALUE : ”
French keyword : FICHIER DES CONDITIONS AUX LIMITES
Name of the file containing the types of boundary conditions. This file is filled automatically by the mesh generator through colours that are assigned to the computation domain boundary nodes.

1.11 C-VSM DYNAMIC ALT MODEL

Type : Integer
Dimension : 0
Mnemo ALT_MODEL
DEFAULT VALUE : 5
French keyword : C-VSM DYNAMIC ALT MODEL
MODEL FOR ACTIVE LAYER THICKNESS 0 = ELAY0 (Keyword: ACTIVE LAYER THICKNESS) 1 = Hunziker & G*ü*nther 2 = Fredsoe & Deigaard (1992) 3 = van RIJN (1993) 4 = Wong (2006) 5 = Malcherek (2003) 6 = 3*d50 within last time steps ALT

1.12 C-VSM FULL PRINTOUT PERIOD

Type : Integer
Dimension : 0
Mnemo CVSMPPERIOD
DEFAULT VALUE : 0
French keyword : C-VSM FULL PRINTOUT PERIOD
Number of Timesteps to next printout of the full C-VSM. These printouts are highly time and disc consuming. 0 = Coupled to GRAPHIC PRINTOUT PERIOD >0 = Own printout period for the C-VSM

1.13 C-VSM MAXIMUM SECTIONS

Type : Integer
Dimension : 0
Mnemo PRO_MAX_MAX
DEFAULT VALUE : 200
French keyword : C-VSM MAXIMUM SECTIONS
Defines the maximum discretisation of the Continous Vertical Sorting Model: Should be bigger than 8xNumber of Fractions. The bigger the higher the RAM requirements, but the faster and accurater the bookkeeping of the sediments.

1.14 C-VSM PRINTOUT SELECTION

Type : String
Dimension : 13
Mnemo CVSMOUTPUT
DEFAULT VALUE : '0;0;0;0;0;0;0;0;0;0;0;0;0'
French keyword : C-VSM PRINTOUT SELECTION

Printout the C-VSM for the whole model as SELAFIN or / and for some nodes as .VSP.CSV file. Give Up to 100 INTEGER numbers separated by ";" 0 = Full model .-> .RES N = 1,2...NPOINT; 2D-ID of a SELFIN MESH POINT ->.CSV

1.15 CHECKING THE MESH

Type : Logical
Dimension : 0
Mnemo CHECK_MESH
DEFAULT VALUE : NO
French keyword : VERIFICATION DU MAILLAGE

if this key word is equal to yes, a call to subroutine checkmesh will look for errors in the mesh, superimposed points, etc.

1.16 COHESIVE SEDIMENTS

Type : Logical
Dimension : 10
Mnemo SEDCO
DEFAULT VALUE : 0;0;0;0;0;0;0;0;0;0
French keyword : SEDIMENTS COHESIFS

TODO: WRITE HELP FOR THAT KEYWORD

1.17 COMPUTATION CONTINUED

Type : Logical
Dimension : 0
Mnemo DEBU
DEFAULT VALUE : NO
French keyword : SUITE DE CALCUL

Determines whether the computation under way is an independent result or is following an earlier result. NO: It is the first run for this computation and a whole set of initial conditions should be defined. YES: It follows a former computation: the initial conditions consist in the last time step of the PREVIOUS COMPUTATION FILE in the steering file used for submitting the computation. All the data from the steering file may be defined once again, which provides an opportunity to change, for example, the time step. It is also possible to define new boundary conditions.

1.18 CONCENTRATION PER CLASS AT BOUNDARIES

Type : Real
Dimension : 2
Mnemo CBOR_CLASSE
DEFAULT VALUE :
French keyword : CONCENTRATIONS PAR CLASSE AUX FRONTIERES

In case of suspension, will be used to initialize the value of volume concentration for each class and each boundary order: boundary 1 (class 1, class2, etc., then boundary 2, etc.

1.19 CONSOLIDATION MODEL

Type : Integer
Dimension : 1
Mnemo ITASS
DEFAULT VALUE : 1
French keyword : `OPTION DU MODELE DE TASSEMENT`
1: Multilayer model of Walther, 2: Thiebot , 3: Lenormant

1.20 CONSTANT ACTIVE LAYER THICKNESS

Type : Logical
Dimension : -1
Mnemo CONST_ALAYER
DEFAULT VALUE : YES
French keyword : `EPAISSEUR DE COUCHE ACTIVE CONSTANTE`
constant active layer thickness or not

1.21 CONSTANT FLOW DISCHARGE

Type : Logical
Dimension : -1
Mnemo LCONDIS
DEFAULT VALUE : NO
French keyword : `CONSTANT FLOW DISCHARGE`
constant flow discharge or not

1.22 CONTROL SECTIONS

Type : Integer
Dimension : 3
Mnemo CTRLSC
DEFAULT VALUE :
French keyword : `SECTIONS DE CONTROLE`
Couples of points (global numbers in the mesh) defining sections where the instantaneous and cumulated discharges will be given

1.23 CORRECTION ON CONVECTION VELOCITY

Type : Logical
Dimension : 0
Mnemo CORR_CONV
DEFAULT VALUE : NO
French keyword : `CORRECTION DU CHAMP CONVECTEUR`
Modification of 2D convection velocities to account for velocity and concentration profiles

1.24 CPU TIME

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : ’10’
French keyword : TEMPS MACHINE CRAY
C.P.U. time (in seconds) allowed for making the computation. Please note that this keyword is a string of characters.

1.25 CRITERION TO UPDATE THE FLOW

Type : Real
Dimension : -1
Mnemo CRIT_CFD
DEFAULT VALUE : 0.1
French keyword : CRITERE POUR METTRE A JOUR L’HYDRODYNAMIQUE
Criterion (Bottom height>CRIT_CFD*Water depth) in order to update the flow. To use with the option constant flow discharge

1.26 CRITICAL EROSION SHEAR STRESS OF THE MUD

Type : Real
Dimension : 10
Mnemo TOCE_VASE
DEFAULT VALUE : 0.01;0.02;0.03;0.04;0.05;0.06;0.07;0.08;0.09;1.
French keyword : CONTRAINTE CRITIQUE D’EROSION DE LA VASE
Critical erosion shear stress of the mud per layer (N per m2)

1.27 CRITICAL EVOLUTION RATIO

Type : Real
Dimension : -1
Mnemo
DEFAULT VALUE : 1.
French keyword : RAPPORT D’EVOLUTION CRITIQUE
Specifies the moment when the SISYPHE extrapolation current filed is no more valid. This value set the maximum ratio between evolutions and the water depth. Generally, it is considered that an evolution lower than 0,1 time the water depth does not perceptibly modify the current field distribution.

1.28 CRITICAL SHEAR VELOCITY FOR MUD DEPOSITION

Type : Real
Dimension : -1
Mnemo VITCD
DEFAULT VALUE : 1000.
French keyword : VITESSE CRITIQUE DE DEPOT DE LA VASE
Critical shear velocity for deposition (m/s)

1.29 D90

Type : Real
Dimension : 10
Mnemo FD90
DEFAULT VALUE : .01;.01;.01;.01;.01;.01;.01;.01;.01;.01
French keyword : `D90`
Sets value of diameter d90 for particular size class. If the keyword is not in the sterring file, the default value is the value of the mean diameter of the sediment.

1.30 DEBUGGER

Type : Integer
Dimension : 0
Mnemo DEBUG
DEFAULT VALUE : 0
French keyword : `DEBUGGER`
If 1, calls of subroutines will be printed in the listing

1.31 DEFAULT EXECUTABLE

Type : String
Dimension : 1
Mnemo EXEDEF
DEFAULT VALUE : 'builds|PPP|bin|sisypheMMMVVV.exe'
French keyword : `EXECUTABLE PAR DEFAUT`
Default executable for SISYPHE

1.32 DEFAULT PARALLEL EXECUTABLE

Type : String
Dimension : 1
Mnemo EXEDEFPARA
DEFAULT VALUE : 'builds|PPP|bin|sisypheMMMVVV.exe'
French keyword : `EXECUTABLE PARALLELE PAR DEFAUT`
Default executable for SISYPHE

1.33 DESCRIPTION OF LIBRARIES

Type : String
Dimension : 7
Mnemo LINKLIBS
DEFAULT VALUE : 'builds|PPP|lib|sisypheMMMVVV.LLL;
builds|PPP|lib|nestorMMMVVV.LLL;
builds|PPP|lib|biefMMMVVV.LLL;
builds|PPP|lib|hermesMMMVVV.LLL;
builds|PPP|lib|damoMMMVVV.LLL;
builds|PPP|lib|parallelMMMVVV.LLL;
builds|PPP|lib|specialMMMVVV.LLL'
French keyword : `DESCRIPTION DES LIBRAIRIES`
SISYPHE LIBRARIES description

1.34 DICTIONARY

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : 'sisyphev6p2.dico'
French keyword : DICTIONNAIRE
Key word dictionary.

1.35 DIFFUSION

Type : Logical
Dimension : 0
Mnemo DIFT
DEFAULT VALUE : YES
French keyword : DIFFUSION
If yes, diffusion of the concentration of suspended sediment is done

1.36 DISPERSION ACROSS THE FLOW

Type : Real
Dimension : 0
Mnemo
DEFAULT VALUE : 1.E-2
French keyword : DISPERSION TRANSVERSALE
TODO: WRITE HELP FOR THAT KEYWORD

1.37 DISPERSION ALONG THE FLOW

Type : Real
Dimension : 0
Mnemo
DEFAULT VALUE : 1.E-2
French keyword : DISPERSION LONGITUDINALE
TODO: WRITE HELP FOR THAT KEYWORD

1.38 EFFECT OF WAVES

Type : Logical
Dimension : -1
Mnemo HOULE
DEFAULT VALUE : NO
French keyword : PRISE EN COMPTE DE LA HOULE
Takes into account the effect of waves

1.39 EQUILIBRIUM INFLOW CONCENTRATION

Type : Logical
Dimension : 0
Mnemo IMP_INFLOW_C
DEFAULT VALUE : NO
French keyword : CONCENTRATION D'EQUILIBRE EN ENTREE
impose the equilibrium concentration for the inflow and at t=0 in the whole domain thanks to

the formula of Fredsoe for non cohesive sediments

1.40 FINITE VOLUMES

Type : Logical
Dimension : 0
Mnemo VF
DEFAULT VALUE : NO
French keyword : VOLUMES FINIS
Finite volumes method or not

1.41 FLUXLINE

Type : Logical
Dimension : 1
Mnemo DOFLUX
DEFAULT VALUE : NO
French keyword : FLUXLINE
Use Fluxline to compute flux over lines

1.42 FLUXLINE INPUT FILE

Type : String
Dimension : -1
Mnemo SIS_FILES(SISFLX)
DEFAULT VALUE : ”
French keyword : FICHIER DE FLUXLINE
Name of the Fluxline file

1.43 FORMULA FOR DEVIATION

Type : Integer
Dimension : -1
Mnemo DEVIA
DEFAULT VALUE : 1
French keyword : FORMULE POUR LA DEVIATION
1: Koch and Flokstra 2: formula of Talmon et al. 1995, JHR 33(4) formulas (1) and (17) linked keyword : BETA2

1.44 FORMULA FOR SLOPE EFFECT

Type : Integer
Dimension : -1
Mnemo SLOPEFF
DEFAULT VALUE : 1
French keyword : FORMULE POUR EFFET DE PENTE
1 : formula of Koch et Flokstra, modification of bed load linked keyword : BETA 2 : formula of Soulsby, modification critical shear stress, can only be used with a threshold fomula linked keyword : FRICTION ANGLE OF THE SEDIMENT

1.45 FORMULATION FOR DEPOSITION AND EROSION

Type : Integer
Dimension : 0
Mnemo
DEFAULT VALUE : 2
French keyword : FORMULATION POUR DEPOT ET EROSION
TODO: WRITE HELP FOR THAT KEYWORD

1.46 FORTRAN FILE

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : 'DEFAUT'
French keyword : FICHIER FORTRAN
Name of FORTRAN file to be submitted.

1.47 FREE INTEGER 1

Type : Integer
Dimension : -1
Mnemo
DEFAULT VALUE : 0
French keyword : FREE INTEGER 1
TODO: WRITE HELP FOR THAT KEYWORD

1.48 FREE INTEGER 2

Type : Integer
Dimension : -1
Mnemo
DEFAULT VALUE : 1
French keyword : FREE INTEGER 2
TODO: WRITE HELP FOR THAT KEYWORD

1.49 FREE LOGICAL 1

Type : Logical
Dimension : -1
Mnemo
DEFAULT VALUE : NO
French keyword : FREE LOGICAL 1
TODO: WRITE HELP FOR THAT KEYWORD

1.50 FRICTION ANGLE OF THE SEDIMENT

Type : Real
Dimension : -1
Mnemo PHISED
DEFAULT VALUE : 40.
French keyword : ANGLE DE FROTTEMENT DU SEDIMENT
Angle of repose of the sediment. Used in the Soulsby formula to take into account the influence

of bed slope on critical shear stress. Use if ...=2

1.51 FRICTION COEFFICIENT

Type : Real
Dimension : -1
Mnemo
DEFAULT VALUE : 50.
French keyword : COEFFICIENT DE FROTTEMENT
Sets the value of the friction coefficient to calculate the bed shear stress. Depends on the LAW OF BOTTOM FRICTION.

1.52 GEL CONCENTRATION

Type : Real
Dimension : -1
Mnemo CONC_GEL
DEFAULT VALUE : 310.D0
French keyword : CONCENTRATION GEL
Gel Concentration (Kg/m3)

1.53 GEOMETRY FILE

Type : String
Dimension : 0
Mnemo SIS_FILES(SISGEO)
DEFAULT VALUE : ”
French keyword : FICHIER DE GEOMETRIE
Name of the file containing the mesh. This file may also contain the topography and the friction coefficients.

1.54 GEOMETRY FILE BINARY

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : ’STD’
French keyword : STANDARD DU FICHIER DE GEOMETRIE
Binary file type used for writing the geometry file. This type depends on the machine on which the file was generated. The possible values are as follows : IBM, for a file on an IBM (from a CRAY) I3E, for a file on an HP (from a CRAY) STD, binary type of the machine on which the user is working. The normal READ and WRITE commands are then used.

1.55 GEOMETRY FILE FORMAT

Type : String
Dimension : -1
Mnemo ????
DEFAULT VALUE : ’SERAFIN’
French keyword : FORMAT DU FICHIER DE GEOMETRIE
Geometry file format. Possible values are: - SERAFIN : classical single precision format in

Telemac; - SERAFIND: classical double precision format in Telemac; - MED : MED format based on HDF5

1.56 GRAIN-FEEDING

Type : Logical
Dimension : -1
Mnemo LGRAFED
DEFAULT VALUE : NO
French keyword : GRAIN-FEEDING
Now suppressed

1.57 GRAPHIC PRINTOUT PERIOD

Type : Integer
Dimension : -1
Mnemo
DEFAULT VALUE : 1
French keyword : PERIODE DE SORTIE GRAPHIQUE
Determines, in number of time steps, the printout period for the 'VARIABLES FOR GRAPHIC PRINTOUTS' in the 'RESULTS FILE'.

1.58 GRAPHIC SOFTWARE

Type : Integer
Dimension : -1
Mnemo
DEFAULT VALUE : 3
French keyword : LOGICIEL DE DESSIN
Specifies the used graphic software for the graphic printouts : 1: LEONARD 2: RUBENS 3: SELAFIN.

1.59 GRAPHIC SOFTWARE OF THE HYDRODYNAMIC COMPUTATION

Type : Integer
Dimension : -1
Mnemo
DEFAULT VALUE : 3
French keyword : LOGICIEL DE DESSIN DU CALCUL PRECEDENT
Specifies the used graphic software for the graphic printouts of the previous computation: 1: LEONARD 2: RUBENS 3: SELAFIN.

1.60 GRAVITY ACCELERATION

Type : Real
Dimension : -1
Mnemo
DEFAULT VALUE : 9.81
French keyword : GRAVITE
Sets the value of the acceleration due to gravity. M/S2

1.61 HIDING FACTOR FOR PARTICULAR SIZE CLASS

Type : Real
Dimension : 10
Mnemo HIDI
DEFAULT VALUE : 1.;1.;1.;1.;1.;1.;1.;1.;1.;1.
French keyword : `HIDING FACTOR PAR CLASSE GRANULO`
Sets value of hiding factor for particular size class.

1.62 HIDING FACTOR FORMULA

Type : Integer
Dimension : 0
Mnemo HIDFAC
DEFAULT VALUE : 0
French keyword : `HIDING FACTOR FORMULA`
4 hiding factor formulas are implemented in SISYPHE 0: const => need to give HIDING FACTOR FOR PARTICULAR SIZE CLASS 1: Egiazaroff 2: Ashida & Michiue : 4: Karim, Holly & Yang

1.63 HYDRODYNAMIC CODE

Type : Integer
Dimension : -1
Mnemo HYDRO
DEFAULT VALUE : 1
French keyword : `CODE DE CALCUL UTILISE POUR L'HYDRODYNAMIQUE`
specifie le code utilise pour modeliser l'hydrodynamique

1.64 HYDRODYNAMIC FILE

Type : String
Dimension : 0
Mnemo SIS_FILES(SISHYD)
DEFAULT VALUE : ”
French keyword : `FICHIER HYDRODYNAMIQUE`
Name of a file containing the results a previous computation made on the same mesh. The hydrodynamic will be given by the last record of the file if the case is steady or, if the case is unsteady, by the time steps describing the tide or flood. Remark :If the bed-load transport under the combined action of currents and wave is modelled (keyword BED-LOAD TRANSPORT FORMULA set equal to 4), this file must contain not only the hydrodynamic data (water height, velocities) but also the wave data (wave height, wave period).However, the user has also the possibility to give the values of the wave data in the subroutine CONDIM.

1.65 HYDRODYNAMIC FILE BINARY

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : 'STD'
French keyword : `STANDARD DU FICHIER HYDRODYNAMIQUE`
obsolete

1.66 HYDRODYNAMIC FILE FORMAT

Type : String
Dimension : -1
Mnemo ?????
DEFAULT VALUE : 'SERAFIN'
French keyword : FORMAT DU FICHIER HYDRODYNAMIQUE

Previous computation results file format. Possible values are: - SERAFIN : classical single precision format in Telemac; - SERAFIND: classical double precision format in Telemac; - MED : MED format based on HDF5

1.67 INITIAL FRACTION FOR PARTICULAR SIZE CLASS

Type : Real
Dimension : 10
Mnemo AVA0
DEFAULT VALUE : 1.;0.;0.;0.;0.;0.;0.;0.;0.;0.
French keyword : FRACTION INITIALE PAR CLASSE SEDIMENTOLOGIQUE

Sets value of initial fraction for particular size class.

1.68 INITIAL SUSPENSION CONCENTRATIONS

Type : Real
Dimension : 2
Mnemo CS0
DEFAULT VALUE :
French keyword : CONCENTRATIONS INITIALES EN SUSPENSION

In case of suspension, will be used to initialize the value of volume concentration for each class. Will not be used if EQUILIBRIUM INFLOW CONCENTRATION=YES

1.69 LAW OF BOTTOM FRICTION

Type : Integer
Dimension : 0
Mnemo KFROT
DEFAULT VALUE : 3
French keyword : LOI DE FROTTEMENT SUR LE FOND

Selects the type of formulation used for the bottom friction. To know the possible laws see CHOIX1 above. See FRICTION COEFFICIENT. Beware: in the case of internal coupling with Telemac, the friction coefficient is selected in the Telemac steering file, except when BED ROUGHNESS PREDICTION is set to YES

1.70 LIBRARIES

Type : String
Dimension : 0
Mnemo
DEFAULT VALUE : 'SISYPHE,TELEMAC,UTIL,DAMO,BIEF,HP'
French keyword : BIBLIOTHEQUES

Used by the start-up procedure at the workstation.

1.71 LIQUID BOUNDARIES FILE

Type : String
Dimension : -1
Mnemo SIS_FILES(SISLIQ)
DEFAULT VALUE : ”
French keyword : FICHIER DES FRONTIERES LIQUIDES
Variations in time of boundary conditions. Data of this file are read on channel SIS_FILES(SISLIQ)

1.72 LIST OF FILES

Type : String
Dimension : 20
Mnemo
DEFAULT VALUE : ’GEOMETRY FILE;
BOUNDARY CONDITIONS FILE;
RESULTS FILE;
BOTTOM TOPOGRAPHY FILE;
REFERENCE FILE;
PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE;
PREVIOUS COMPUTATION FILE;
HYDRODYNAMIC FILE;
WAVE FILE;
FORTRAN FILE;
STEERING FILE;
NESTOR ACTION FILE;
NESTOR POLYGON FILE;
NESTOR SURFACE REFERENCE FILE;
NESTOR RESTART FI’
French keyword : LISTE DES FICHIERS
TODO: WRITE HELP FOR THAT KEYWORD

1.73 LISTING PRINTOUT PERIOD

Type : Integer
Dimension : -1
Mnemo
DEFAULT VALUE : 1
French keyword : PERIODE DE SORTIE LISTING
Determines, in number of time steps, the printout period of the ’VARIABLES TO BE PRINTED’. The results are printed out on the listing file (file cas_numerodeprocessus.sortie on a workstation).

1.74 MASS CONCENTRATION

Type : Logical
Dimension : 0
Mnemo UNIT
DEFAULT VALUE : NO
French keyword : CONCENTRATION MASSIQUE
Determines if concentrations (input and output) are mass concentrations in g/l or adimensionnal volume concentrations (default option).

1.75 MASS TRANSFER PER LAYER

Type : Real
Dimension : 2
Mnemo TRANS_MASS
DEFAULT VALUE :
French keyword : TRANSFERT DE MASSE PAR COUCHE
Mass transfert coefficients of the multilayer consolidation model in s-1

1.76 MASS-BALANCE

Type : Logical
Dimension : -1
Mnemo
DEFAULT VALUE : NO
French keyword : BILAN DE MASSE
Determines whether a check of the mass-balance over the domain is made or not

1.77 MASS-LUMPING

Type : Logical
Dimension : -1
Mnemo
DEFAULT VALUE : YES
French keyword : MASS-LUMPING
If this key word is equal to yes, the mass matrix is then condensed on its diagonal.This technique is used to accelerate the computation and also to make it more stable.However, the solutions obtained are smoothed.

1.78 MATRIX STORAGE

Type : Integer
Dimension : 0
Mnemo OPTASS
DEFAULT VALUE : 1
French keyword : STOCKAGE DES MATRICES
TODO: WRITE HELP FOR THAT KEYWORD

1.79 MATRIX-VECTOR PRODUCT

Type : Integer
Dimension : 0
Mnemo
DEFAULT VALUE : 1
French keyword : PRODUIT MATRICE-VECTEUR
TODO: WRITE HELP FOR THAT KEYWORD

1.80 MAXIMUM CONCENTRATION

Type : Real
Dimension : -1
Mnemo CONC_MAX
DEFAULT VALUE : 364.D0
French keyword : CONCENTRATION MAXIMALE
Maximum Concentration for Thiebot consolidation model(Kg/m3)

1.81 MAXIMUM NUMBER OF BOUNDARIES

Type : Integer
Dimension : -1
Mnemo MAXFRO
DEFAULT VALUE : 30
French keyword : NOMBRE MAXIMUM DE FRONTIERES
maximal number of boundaries in the mesh. Used for dimensioning arrays. Can be increased if needed

1.82 MAXIMUM NUMBER OF ITERATIONS FOR ADVECTION SCHEMES

Type : Integer
Dimension : 0
Mnemo MAXADV
DEFAULT VALUE : 10
French keyword : MAXIMUM D'ITERATIONS POUR LES SCHEMAS DE CONVECTION
Only for schemes 13 and 14

1.83 MAXIMUM NUMBER OF ITERATIONS FOR SOLVER

Type : Integer
Dimension : 0
Mnemo NITMAX
DEFAULT VALUE : 60
French keyword : MAXIMUM D'ITERATIONS POUR LE SOLVEUR
Since the algorithms used for solving the propagation step are iterative, the allowed number of iterations should be limited. NOTE:Used only if the key-word MASS LUMPING is equal to false .

1.84 MAXIMUM NUMBER OF ITERATIONS FOR SOLVER FOR SUSPENSION

Type : Integer
Dimension : 0
Mnemo
DEFAULT VALUE : 50
French keyword : MAXIMUM D'ITERATIONS POUR LE SOLVEUR POUR LA SUSPENSION
TODO: WRITE HELP FOR THAT KEYWORD

1.85 MEAN DIAMETER OF THE SEDIMENT

Type : Real
Dimension : 10
Mnemo FDM
DEFAULT VALUE : .01;.01;.01;.01;.01;.01;.01;.01;.01;.01
French keyword : `DIAMETRE MOYEN DES GRAINS`
Sets value of diameter dm for particular size class.

1.86 MEMORY SPACE CRAY

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : '1500000W'
French keyword : `PLACE MEMOIRE CRAY`
Storage capacity (in words of 8 bytes) reserved in machine for making the computation.

1.87 MESHING

Type : Integer
Dimension : -1
Mnemo
DEFAULT VALUE : 3
French keyword : `MAILLEUR`
MESHING 1: LEONARD STANDARD FINITE DIFFERENTS MESH-GENERATOR 2: PABLO 2D STANDARD FINITE ELEMENTS MESH-GENERATOR 3: SELAFIN STANDARD FINITE ELEMENTS MESH-GENERATOR.

1.88 MINIMAL VALUE OF THE WATER HEIGHT

Type : Real
Dimension : -1
Mnemo HMIN
DEFAULT VALUE : 1.E-3
French keyword : `VALEUR MINIMUM DE H`
Sets the minimum value of the water depth. Is used when the keyword TIDAL FLATS is equal to yes.

1.89 MINIMUM DEPTH FOR BEDLOAD

Type : Real
Dimension : -1
Mnemo HMIN_BEDLOAD
DEFAULT VALUE : 1.E-2
French keyword : `PROFONDEUR MINIMUM POUR LE CHARRIAGE`
To cancel sediment fluxes to and from dry points

1.90 MIXED SEDIMENT

Type : Logical
Dimension : 0
Mnemo MIXTE
DEFAULT VALUE : NO
French keyword : SEDIMENT MIXTE
Mixture of cohesive and non cohesive sediment : 2 class only

1.91 MORPHOLOGICAL FACTOR

Type : Real
Dimension : -1
Mnemo MOFAC
DEFAULT VALUE : 1.
French keyword : FACTEUR MORPHOLOGIQUE
Amplification for the morphological time scale

1.92 MPM COEFFICIENT

Type : Real
Dimension : -1
Mnemo MPM
DEFAULT VALUE : 8.0E-00
French keyword : MPM COEFFICIENT
Meyer-Peter Mueller Coefficient(-)

1.93 MUD CONCENTRATION PER LAYER

Type : Real
Dimension : 2
Mnemo CONC_VASE
DEFAULT VALUE :
French keyword : CONCENTRATIONS DU LIT DE VASE
Concentrations of the mud-bed in g per l (per layer)

1.94 MUD CONSOLIDATION

Type : Logical
Dimension : 0
Mnemo TASS
DEFAULT VALUE : NO
French keyword : TASSEMENT DU LIT COHESIF
consolidation of the mud or sand mud-mixture sediment bed accounted for

1.95 NAMES OF DIFFERENTIATORS

Type : String
Dimension : 2
Mnemo NAME_ADVAR
DEFAULT VALUE : ”
French keyword : NOMS DES DIFFERENTIATEURS
Name of user differentiators in 32 characters, 16 for the name, 16 for the unit.

1.96 NAMES OF PRIVATE VARIABLES

Type : String
Dimension : 2
Mnemo NAMES_PRIVE
DEFAULT VALUE : ”
French keyword : NOMS DES VARIABLES PRIVEES
Name of private variables in 32 characters, 16 for the name, 16 for the unit. They are stored in the block PRIVE and can be read in the geometry file if they are here with their name

1.97 NESTOR

Type : Logical
Dimension : 0
Mnemo NESTOR
DEFAULT VALUE : NO
French keyword : NESTOR
For coupling with NESTOR

1.98 NESTOR ACTION FILE

Type : String
Dimension : -1
Mnemo SIS_FILES(SISMAF)
DEFAULT VALUE : ”
French keyword : FICHIER DE NESTOR ACTION
Name of the Nestor steering file

1.99 NESTOR POLYGON FILE

Type : String
Dimension : -1
Mnemo SIS_FILES(DSIPDS)
DEFAULT VALUE : ”
French keyword : FICHIER DE NESTOR POLYGON
Name of the Nestor polygon file

1.100 NESTOR RESTART FILE

Type : String
Dimension : -1
Mnemo SIS_FILES(DSCFG1)
DEFAULT VALUE : ”
French keyword : FICHIER DE NESTOR RESTART
Name of the Nestor file phydef-cf.cfg.ds

1.101 NESTOR SURFACE REFERENCE FILE

Type : String
Dimension : -1
Mnemo SIS_FILES(DSRWSP)
DEFAULT VALUE : ”
French keyword : FICHIER DE NESTOR DE SURFACE REFERENCE

Name of the Nestor file which contains the reference water surface

1.102 NON COHESIVE BED POROSITY

Type : Real
Dimension : 1
Mnemo XKV
DEFAULT VALUE : 0.4
French keyword : POROSITE DU LIT NON COHESIF
The bed volume concentration CSF=(1-porosity) is used to calculate the bed evolution of non-cohesive sand transport.

1.103 NUMBER OF BED LOAD MODEL LAYERS

Type : Integer
Dimension : 1
Mnemo NOMBLAY
DEFAULT VALUE : 2
French keyword : NOMBRE DE COUCHES POUR GRANULO ETENDUE
This is the given allocation limit, secure default NOMLAY=2

1.104 NUMBER OF CORRECTIONS OF DISTRIBUTIVE SCHEMES

Type : Integer
Dimension : 0
Mnemo NCO_DIST
DEFAULT VALUE : 1
French keyword : NOMBRE DE CORRECTIONS DES SCHEMAS DISTRIBUTIFS
For predictor-corrector options

1.105 NUMBER OF DIFFERENTIATORS

Type : Integer
Dimension : 0
Mnemo NADVAR
DEFAULT VALUE : 0
French keyword : NOMBRE DE DIFFERENTIATEURS
Defines the number of user differentiators

1.106 NUMBER OF ITERATIONS FOR TELEMAC

Type : Integer
Dimension : -1
Mnemo NCONDIS
DEFAULT VALUE : 500
French keyword : NOMBRE D'ITERATIONS POUR TELEMAC
Number of iteration to do wtih telemac in order to obtain a new quasi-stationary flow. To use with the option constant flow discharge

1.107 NUMBER OF LAYERS OF THE CONSOLIDATION MODEL

Type :	Integer
Dimension :	0
Mnemo	NCOUCH_TASS
DEFAULT VALUE :	1
French keyword :	NOMBRE DE COUCHES POUR LE TASSEMENT

Vertical bed structure - The number of layers should be less than 10

1.108 NUMBER OF PRIVATE ARRAYS

Type :	Integer
Dimension :	0
Mnemo	NPRIV
DEFAULT VALUE :	1
French keyword :	NOMBRE DE TABLEAUX PRIVES

Number of arrays for own user programming

1.109 NUMBER OF SIZE-CLASSES OF BED MATERIAL

Type :	Integer
Dimension :	0
Mnemo	NSICLA
DEFAULT VALUE :	1
French keyword :	NOMBRE DE CLASSES GRANULOMETRIQUES

Sets value of number of size classes of bed materials.

1.110 NUMBER OF SUB-ITERATIONS

Type :	Integer
Dimension :	0
Mnemo	NSOUS
DEFAULT VALUE :	1
French keyword :	NOMBRE DE SOUS-ITERATIONS

enable to realize sub-iteration inside a time step (this key word is not used if the key word VARIABLE TIME-STEP is set equal to yes). It could be useful for a non steady case be useful for a non steady case when the time step which is fixed by the graphic printout period of the HYDRODYNAMIC FILE is too large.

1.111 NUMBER OF SUB-STEPS OF DISTRIBUTIVE SCHEMES

Type :	Integer
Dimension :	0
Mnemo	NSP_DIST
DEFAULT VALUE :	1
French keyword :	NOMBRE DE SOUS-PAS DES SCHEMAS DISTRIBUTIFS

Only for implicit scheme with predictor-corrector

1.112 NUMBER OF TIDES OR FLOODS

Type : Integer
Dimension : -1
Mnemo NMAREE
DEFAULT VALUE : 1
French keyword : NOMBRE DE MAREES OU CRUES

For an unsteady case, specifies the number of tides or floods performed when running the code. For a steady case, this keyword is not used.

1.113 NUMBER OF TIME STEPS

Type : Integer
Dimension : -1
Mnemo
DEFAULT VALUE : 1
French keyword : NOMBRE DE PAS DE TEMPS

Specifies, for a steady case, the number of time steps performed when running the code. For an unsteady case, this keyword is not used.

1.114 OPTION FOR THE DIFFUSION OF TRACER

Type : Integer
Dimension : 0
Mnemo OPDTRA
DEFAULT VALUE : 1
French keyword : OPTION POUR LA DIFFUSION DU TRACEUR

1: Diffusion in the form div(nu grad(T)) 2: Diffusion in the form 1/h div (h nu grad(T))

1.115 OPTION FOR THE DISPERSION

Type : Integer
Dimension : 0
Mnemo OPTDIF
DEFAULT VALUE :
French keyword : OPTION POUR LA DISPERSION

1 les mots cles dispersion longitudinale et dispersion transversale permettent d affecter une valeur constante, 2 K1=alphal u*h et K2=alphat u*h affectent les valeurs alphal et alphat (par default alphal=6 et alphat=0.6, 3 dipersion fournie par telemac2d

1.116 OPTION FOR THE TREATMENT OF NON ERODABLE BEDS

Type : Integer
Dimension : 0
Mnemo CHOIX
DEFAULT VALUE : 0
French keyword : OPTION DE TRAITEMENT DES FONDS NON ERODABLES

This parameters determines the method used to treat the non erodable bottoms : 0 = ERODABLE BOTTOMS EVERYWHERE 1 = MINIMISATION OF THE SOLID DISCHARGE 2 = NUL SOLID DISCHARGE 3 = MINIMISATION OF THE SOLID DISCHARGE IN FE / MASS-LUMPING 4 = MINIMISATION OF THE SOLID DISCHARGE IN FINITE VOLUMES When the rigid bed can be reached during the computation, it is advised to use the method 3 or the method 4

1.117 OPTION FOR THE TREATMENT OF TIDAL FLATS

Type : Integer
Dimension : -1
Mnemo
DEFAULT VALUE : 1
French keyword : OPTION DE TRAITEMENT DES BANCS DECOUVRANTS
Used if 'TIDAL FLATS' is true 1 : EQUATIONS SOLVED EVERYWHERE WITH CORRECTION ON TIDAL FLATS 2 : DRY ELEMENTS FROZEN It is recommended to choose 1 since it ensures mass conservation.

1.118 ORIGIN COORDINATES

Type : Integer
Dimension : 2
Mnemo I_ORIG,J_ORIG
DEFAULT VALUE : 0;0
French keyword : COORDONNEES DE L'ORIGINE
Value in metres, used to avoid large real numbers, added in Selafin format, but so far no other treatment

1.119 ORIGINAL DATE OF TIME

Type : Integer
Dimension : 3
Mnemo
DEFAULT VALUE : 0;0;0
French keyword : DATE DE L'ORIGINE DES TEMPS
Give the date of the time origin of the model when taking into account the tide generating force.

1.120 ORIGINAL HOUR OF TIME

Type : Integer
Dimension : 3
Mnemo
DEFAULT VALUE : 0;0;0
French keyword : HEURE DE L'ORIGINE DES TEMPS
Give the time of the time origin of the model when taking into account of the tide generator force.

1.121 PARALLEL PROCESSORS

Type : Integer
Dimension : 0
Mnemo NCSIZE
DEFAULT VALUE : 0
French keyword : PROCESSEURS PARALLELES
NUMBER OF PROCESSORS FOR PARALLEL PROCESSING 0 : 1 machine, compiling without parallel library 1 : 1 machine, compiling with a parallel library 2 : 2 processors or machines in parallel etc....

1.122 PARAMETER FOR DEVIATION

Type : Real
Dimension : -1
Mnemo BETA2
DEFAULT VALUE : 0.85
French keyword : PARAMETRE POUR LA DEVIATION
Parameter pour la deviation pour la formule de Talmon et al.

1.123 PARTHENIADES CONSTANT

Type : Real
Dimension : -1
Mnemo PARTHENIADES
DEFAULT VALUE : 1.E-03
French keyword : CONSTANTE DE PARTHENIADES
constant of the Krone and Partheniades erosion law (Kg/m2/s)

1.124 PARTITIONING TOOL

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : 'METIS'
French keyword : PARTITIONNEUR
PARTITIONING TOOL SELECTION 1 : METIS 2 : SCOTCH 3 : PARMETIS 4 : PTSCOTCH etc...

1.125 PASSWORD CRAY

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : ''
French keyword : MOT DE PASSE CRAY
Password related to USER CRAY.

1.126 PERMEABILITY COEFFICIENT

Type : Real
Dimension : -1
Mnemo COEF_N
DEFAULT VALUE : 8.D0
French keyword : COEFFICIENT DE PERMEABILITE
Coefficient of permeability for consolidation model

1.127 PRECONDITIONING

Type : Integer
Dimension : 0
Mnemo PRECON
DEFAULT VALUE : 2
French keyword : PRECONDITIONNEMENT

Choice of the preconditioning in the resolution of the linear system that the convergence is speeded up when it is being solved (Used only if the key-word MASS LUMPING is equal to false). 0: no preconditioning 2: diagonal preconditioning 3: diagonal preconditioning with the condensed matrix 7: Crout's preconditioning per element (not implemented). Some operations (either 2 or 3 diagonal preconditioning) can be performed concurrently with the others. Only prime numbers are therefore kept to denote the preconditioning operations. When several of them are to be performed concurrently, the product of relevant options shall be made.

1.128 PRECONDITIONING FOR SUSPENSION

Type :	Integer
Dimension :	0
Mnemo	
DEFAULT VALUE :	2
French keyword :	`PRECONDITIONNEMENT POUR LA SUSPENSION`

TODO: WRITE HELP FOR THAT KEYWORD

1.129 PRESCRIBED SOLID DISCHARGES

Type :	Real
Dimension :	2
Mnemo	SOLDIS
DEFAULT VALUE :	
French keyword :	`DEBITS SOLIDES IMPOSES`

Values of prescribed solid discharges at the inflow boundaries (m3/s without voids). One value per liquid boundary

1.130 PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE

Type :	String
Dimension :	0
Mnemo	SIS_FILES(SISPRE)
DEFAULT VALUE :	”
French keyword :	`FICHIER PRECEDENT SEDIMENTOLOGIQUE`

Name of a file containing the results of an earlier sedimentological computation which was made on the same mesh. The last recorded time step will provide the initial conditions for the new computation.

1.131 PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE FORMAT

Type :	String
Dimension :	-1
Mnemo	?????
DEFAULT VALUE :	'SERAFIN'
French keyword :	`FORMAT DU FICHIER PRECEDENT SEDIMENTOLOGIQUE`

Previous computation results file format. Possible values are: - SERAFIN : classical single precision format in Telemac; - SERAFIND: classical double precision format in Telemac; - MED : MED format based on HDF5

1.132 PVM1 LIBRARY

Type : String
Dimension : 0
Mnemo
DEFAULT VALUE : ”
French keyword : BIBLIOTHEQUE PVM1
Utilise par la procedure de lancement sur station de travail

1.133 PVM2 LIBRARY

Type : String
Dimension : 0
Mnemo
DEFAULT VALUE : ”
French keyword : BIBLIOTHEQUE PVM2
Utilise par la procedure de lancement sur station de travail

1.134 RATIO BETWEEN SKIN FRICTION AND MEAN DIAMETER

Type : Real
Dimension : -1
Mnemo KSPRATIO
DEFAULT VALUE : 3.0
French keyword : RATIO ENTRE LA RUGOSITE DE PEAU ET LE DIAMETRE MOYEN
Ratio for the computation of skin friction. skin roughness = ratio * mean diameter (for the mixture of sand, the mean diameter used is a value per node which is computed thanks to the fraction and the mean diameter of each sediment for each node of the mesh) if KSPRATIO =0 : use skin friction prediction from Van Rijn (2007) for currents and the Wiberg and Harris method for waves

1.135 REFERENCE CONCENTRATION FORMULA

Type : Integer
Dimension : -1
Mnemo ICQ
DEFAULT VALUE : 1
French keyword : FORMULE POUR LA CONCENTRATION DE REFERENCE
1 : Zysderman and Fredsoe, equilibrium formula 2: Bijker method. The near bed concentration is related to the bedload . This option cannot be used without bedload transport 3: Van Rijn formula 4: Soulsby_van Rijn formula

1.136 REFERENCE FILE

Type : String
Dimension : 0
Mnemo SIS_FILES(SISREF)
DEFAULT VALUE : ”
French keyword : FICHIER DE REFERENCE
Name of the file used to validate the computation. If VALIDATION = YES, the results of the computation will be compared with the values of this file. The comparison is made by the subroutine VALIDA.

1.137 REFERENCE FILE BINARY

Type :	String
Dimension :	-1
Mnemo	
DEFAULT VALUE :	'STD'
French keyword :	STANDARD DU FICHIER DE REFERENCE

Binary file type used for writing the reference file. This type depends on the machine on which the file was generated. The possible values are the same as for the geometry file.

1.138 REFERENCE FILE FORMAT

Type :	String
Dimension :	-1
Mnemo	?????
DEFAULT VALUE :	'SERAFIN'
French keyword :	FORMAT DU FICHIER DE REFERENCE

Previous computation results file format. Possible values are: - SERAFIN : classical single precision format in Telemac; - SERAFIND: classical double precision format in Telemac; - MED : MED format based on HDF5

1.139 RELEASE

Type :	String
Dimension :	-1
Mnemo	
DEFAULT VALUE :	'V7P2'
French keyword :	NUMERO DE VERSION

Release of the libraries used by SISYPHE.

1.140 RESULTS FILE

Type :	String
Dimension :	0
Mnemo	SIS_FILES(SISRES)
DEFAULT VALUE :	"
French keyword :	FICHIER DES RESULTATS

Name of the file into wich the computation results shall be written, the periodicity being given by the keyword GRAPHIC PRINTOUT PERIOD.

1.141 RESULTS FILE BINARY

Type :	String
Dimension :	-1
Mnemo	
DEFAULT VALUE :	'STD'
French keyword :	STANDARD DU FICHIER RESULTAT

Binary file type used for writing the results file. This type depends on the machine on which the file was generated. The possible values are the same as for the geometry file.

1.142 RESULTS FILE FORMAT

Type : String
Dimension : -1
Mnemo ?????
DEFAULT VALUE : 'SERAFIN'
French keyword : FORMAT DU FICHIER DES RESULTATS
Results file format. Possible values are: - SERAFIN : classical single precision format in Telemac; - SERAFIND: classical double precision format in Telemac; - MED : MED format based on HDF5

1.143 SCHEME OPTION FOR ADVECTION

Type : Integer
Dimension : 1
Mnemo OPTADV
DEFAULT VALUE : 1
French keyword : OPTION DU SCHEMA POUR LA CONVECTION
If present replaces and has priority over: OPTION FOR CHARACTERISTICS (not yet implemented) SUPG OPTION IF PSI SCHEME: 1=explicit 2=predictor-corrector for tracers

1.144 SECONDARY CURRENTS

Type : Logical
Dimension : 0
Mnemo SECCURRENT
DEFAULT VALUE : NO
French keyword : COURANTS SECONDAIRES
using the parametrisation for secondary currents

1.145 SECONDARY CURRENTS ALPHA COEFFICIENT

Type : Real
Dimension : -1
Mnemo ALPHA
DEFAULT VALUE : 1.0E-00
French keyword : SECONDARY CURRENTS ALPHA COEFFICIENT
Alpha coefficient of secondary current(-), Should be chosen between 0.75 (rough bottom) and 1 (smooth bottom)

1.146 SECTIONS INPUT FILE

Type : String
Dimension : -1
Mnemo SIS_FILES(SISSEC)
DEFAULT VALUE : ''
French keyword : FICHIER DES SECTIONS DE CONTROLE
sections input file, partitioned

1.147 SECTIONS OUTPUT FILE

Type : String
Dimension : -1
Mnemo SIS_FILES(SISSEO)
DEFAULT VALUE : ”
French keyword : SECTIONS OUTPUT FILE
sections output file, written by the master

1.148 SEDIMENT DENSITY

Type : Real
Dimension : -1
Mnemo
DEFAULT VALUE : 2650.
French keyword : MASSE VOLUMIQUE DU SEDIMENT
sets the value of the sediment density en Kg/m3

1.149 SEDIMENT DIAMETERS

Type : Real
Dimension : 10
Mnemo FDM
DEFAULT VALUE : .01;.01;.01;.01;.01;.01;.01;.01;.01;.01
French keyword : DIAMETRES DES GRAINS
Sets value of diameter dm for particular size class.

1.150 SEDIMENT SLIDE

Type : Logical
Dimension : 0
Mnemo SLIDE
DEFAULT VALUE : NO
French keyword : GLISSEMENT DU SEDIMENT
If yes, the key-word FRICTION ANGLE OF THE SEDIMENT is taken into account for slope stability

1.151 SETTLING LAG

Type : Logical
Dimension : -1
Mnemo SET_LAG
DEFAULT VALUE : NO
French keyword : SETTLING LAG
(-)

1.152 SETTLING VELOCITIES

Type : Real
Dimension : 10
Mnemo XWC
DEFAULT VALUE :
French keyword : VITESSES DE CHUTE

The default value is not given. If the user does not give a value, the subroutine vitchu-sisyphe is used: Stockes, Zanke or Van Rijn formulae depending on the grain size

1.153 SHIELDS PARAMETERS

Type : Real
Dimension : 10
Mnemo AC
DEFAULT VALUE :
French keyword : PARAMETRES DE SHIELDS

Used to determine the critical bed shear stress value (non-cohesive sediments). For multi grain size, the shields parameter needs to be specified for each class. If only one value is specified, the shields parameter will be considered constant. The default option (no shields given in parameter file) is to calculate the shields parameter as a function of sand grain diameter (see logical CALAC).

1.154 SKIN FRICTION CORRECTION

Type : Integer
Dimension : -1
Mnemo ICR
DEFAULT VALUE : 1
French keyword : CORRECTION FROTTEMENT DE PEAU

formula to predict the skin bed roughness (see also KSPRATIO) 0 : NO correction (TAUP= TOB) 1 : Flat bed (KSP= KSPRATIO * D50) 2 : Ripple correction factor

1.155 SLOPE EFFECT

Type : Logical
Dimension : 0
Mnemo EFFPEN
DEFAULT VALUE : YES
French keyword : EFFET DE PENTE

If yes, slope effect taken into account: deviation + modification of critical shear stress. NO will cancel the key-words FORMULA FOR SLOPE EFFECT and FORMULA FOR DEVIATION

1.156 SOLVER

Type : Integer
Dimension : 0
Mnemo METHOD
DEFAULT VALUE : 3
French keyword : SOLVEUR

Makes it possible to select the solver used for solving the bottom evolution equation (Used only if the key-word MASS LUMPING is equal to false). All the currently available methods are variations of the Conjugate Gradient method. They are as follows: 1: conjugate gradient 2: conjugate residual 3: conjugate gradient on a normal equation 4: minimum error 5: conjugate gradient squared (not implemented) 6: conjugate gradient squared stabilised (cgstab) 7: gmres (see option for solver)

1.157 SOLVER ACCURACY

Type : Real
Dimension : 0
Mnemo EPSI
DEFAULT VALUE : 1.E-7
French keyword : PRECISION DU SOLVEUR
Required accuracy for solving the linear system (used only if the key word MASS LUMPING is equal to false).

1.158 SOLVER ACCURACY FOR SUSPENSION

Type : Real
Dimension : 0
Mnemo
DEFAULT VALUE : 1.E-8
French keyword : PRECISION DU SOLVEUR POUR LA SUSPENSION
TODO: WRITE HELP FOR THAT KEYWORD

1.159 SOLVER FOR SUSPENSION

Type : Integer
Dimension : 0
Mnemo
DEFAULT VALUE : 3
French keyword : SOLVEUR POUR LA SUSPENSION
TODO: WRITE HELP FOR THAT KEYWORD

1.160 SOLVER OPTION

Type : Integer
Dimension : 0
Mnemo METHOD
DEFAULT VALUE : 2
French keyword : OPTION DU SOLVEUR
WHEN GMRES (7) IS CHOSEN, DIMENSION OF THE KRYLOV SPACE TRY VALUES BETWEEN 2 AND 15. Used only if the key-word MASS LUMPING is equal to false

1.161 SOLVER OPTION FOR SUSPENSION

Type : Integer
Dimension : 0
Mnemo
DEFAULT VALUE : 2
French keyword : OPTION DU SOLVEUR POUR LA SUSPENSION
TODO: WRITE HELP FOR THAT KEYWORD

1.162 STARTING TIME OF THE HYDROGRAM

Type : Real
Dimension : -1
Mnemo TPREC
DEFAULT VALUE : -1000.
French keyword : TEMPS D'ORIGINE DE L'HYDROGRAMME
this key word specifies the time when SISYPHE computation begins except when a computation is continued (the initial time is then read on the "previous sendimentological file". For an unsteady case, it moreover specifies the time which corresponds to the 1st record to be read in the "previous computation file"(the file which contains the hydrodynamic data).

1.163 STATIONARY MODE

Type : Logical
Dimension : -1
Mnemo STAT_MODE
DEFAULT VALUE : NO
French keyword : STATIONARY MODE
(-)

1.164 STEADY CASE

Type : Logical
Dimension : -1
Mnemo
DEFAULT VALUE : NO
French keyword : CAS PERMANENT
Specifies steady or unsteady case.If this keyword is equal to YES, the last record of the previous computation file will give the values of h,u,v and eventually wave height and period to be considered.

1.165 STEERING FILE

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : ”
French keyword : FICHIER DES PARAMETRES
Name of the file containing the parameters of the computation. Could be written by the user with EDAMOX.

1.166 SUPG OPTION

Type : Integer
Dimension : 0
Mnemo
DEFAULT VALUE : 2
French keyword : OPTION DE SUPG
TODO: WRITE HELP FOR THAT KEYWORD

1.167 SUSPENSION

Type : Logical
Dimension : -1
Mnemo
DEFAULT VALUE : NO
French keyword : SUSPENSION
TODO: WRITE HELP FOR THAT KEYWORD

1.168 TETA

Type : Real
Dimension : -1
Mnemo
DEFAULT VALUE : 0.
French keyword : TETA
Specifies the implicitation coefficient of the numerical scheme.

1.169 TETA SUSPENSION

Type : Real
Dimension : 0
Mnemo TETA_SUSP
DEFAULT VALUE : 1.
French keyword : TETA SUSPENSION
implicitation factor for the deposition flux and the diffusion. for teta =0, the deposition flux is only explicit.

1.170 TIDAL FLATS

Type : Logical
Dimension : -1
Mnemo
DEFAULT VALUE : YES
French keyword : BANCS DECOUVRANTS
When no, the specific treatments for tidal flats are by-passed. This spares time, but of course you must be sure that you have no tidal flats

1.171 TIDE PERIOD

Type : Real
Dimension : -1
Mnemo
DEFAULT VALUE :
French keyword : PERIODE DE LA MAREE
Sets the period of the event (tide or flood) for an unsteady case.

1.172 TIME STEP

Type : Real
Dimension : -1
Mnemo
DEFAULT VALUE : 1.
French keyword : PAS DE TEMPS
Specifies the time step in seconds in steady case. For an unsteady case, this time step is fixed by the graphic printout period of the previous computation file, except if no name is given for the 'HYDRODYNAMIC FILE' in the steering file. Remark : If the keyword 'VARIABLE TIME STEP' is set equal to yes, the time step required for a correct resolution is computed in the code and sub-iterations are performed

1.173 TITLE

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : ''
French keyword : TITRE
Title of the case being considered. This title shall be marked on the printouts.

1.174 TREATMENT OF FLUXES AT THE BOUNDARIES

Type : Integer
Dimension : 0
Mnemo DIRFLU
DEFAULT VALUE : 2
French keyword : TRAITEMENT DES FLUX AUX FRONTIERES
Used so far only with the PSI and N schemes. With option 2, Dirichlet prescribed values are not obeyed, but the fluxes are correct

1.175 TYPE OF ADVECTION

Type : Integer
Dimension : 0
Mnemo RESOL
DEFAULT VALUE : 1
French keyword : FORME DE LA CONVECTION
Scheme used for advection of suspended sediment : 1: characteristics 2: semi-implicit SUPG 3 et 4: N scheme 5: psi scheme 6: non conservative psi scheme 7: non conservative N scheme 13 et 14: Edge-based N scheme (recommended for tidal flats)

1.176 USER CRAY

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : ''
French keyword : USER CRAY
User's identity on CRAY.

1.177 VALIDATION

Type : Logical
Dimension : -1
Mnemo
DEFAULT VALUE : NO
French keyword : VALIDATION

This option is primarily used for the validation documents. If this keyword is equal to YES, the REFERENCE FILE is then considered as a reference which the computation is going to be compared with. The comparison is made by the subroutine VALIDA, which can be modified so as to include,for example,a comparison with an exact solution.

1.178 VARIABLES FOR GRAPHIC PRINTOUTS

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : 'U,V,H,S,B,R,E'
French keyword : VARIABLES POUR LES SORTIES GRAPHIQUES

Names of variables the user wants to write into the graphic results file. Each variable is represented by a letter. See CHOIX1 above. One can use *, *A* means all fractions

1.179 VARIABLES TO BE PRINTED

Type : String
Dimension : -1
Mnemo
DEFAULT VALUE : ''
French keyword : VARIABLES A IMPRIMER

Names of variables the user wants to write on the listing. Each variable is represented by a letter in the same manner as it is done in the graphic results file.

1.180 VECTOR LENGTH

Type : Integer
Dimension : -1
Mnemo
DEFAULT VALUE : 1
French keyword : LONGUEUR DU VECTEUR

vector length on vector machines.

1.181 VERTICAL GRAIN SORTING MODEL

Type : Integer
Dimension : 0
Mnemo VSMTYPE
DEFAULT VALUE : 0
French keyword : VERTICAL GRAIN SORTING MODEL

Defines the model of the vertical grain sorting: 0 = HR-VSM = Layer Model (Classic Hirano / Ribberink approach) 1 = C-VSM (Continous Vertical Grain Sorting Model)

1.182 WATER DENSITY

Type : Real
Dimension : -1
Mnemo
DEFAULT VALUE : 1000.
French keyword : MASSE VOLUMIQUE DE L'EAU
sets the value of water density.

1.183 WATER VISCOSITY

Type : Real
Dimension : -1
Mnemo VCE
DEFAULT VALUE : 1.E-6
French keyword : VISCOSITE CINEMATIQUE EAU
Specifies the water kinematic viscosity. M/S2

1.184 WAVE FILE

Type : String
Dimension : 0
Mnemo SIS_FILES(SISCOU)
DEFAULT VALUE : ”
French keyword : FICHIER DE HOULE
Name of a file containing the results a previous TOMAWAC computation made on the same mesh. The wave data (wave height, wave period, wave angle) will be given by the last record of the file. The user has to verify that both informations (wave and current data) are consistent. Remark :The wave data can also be specified in the hydrodynamic file. the user has also the possibility to give the values of the wave data in the subroutine CONDIM. This is recommended for non-steady flow simulation.

1.185 WAVE FILE FORMAT

Type : String
Dimension : -1
Mnemo ?????
DEFAULT VALUE : 'SERAFIN'
French keyword : FORMAT DU FICHIER DE HOULE
Wave file format. Possible values are: - SERAFIN : classical single precision format in Telemac; - SERAFIND: classical double precision format in Telemac; - MED : MED format based on HDF5

1.186 ZERO

Type : Real
Dimension : -1
Mnemo
DEFAULT VALUE : 1.E-10
French keyword : ZERO
Sets the zero of the code.

2. List of keywords classified according to type

2.1 BED MATERIAL

ACTIVE LAYER THICKNESS
C-VSM DYNAMIC ALT MODEL
C-VSM FULL PRINTOUT PERIOD
C-VSM MAXIMUM SECTIONS
C-VSM PRINTOUT SELECTION
COHESIVE SEDIMENTS
CONSTANT ACTIVE LAYER THICKNESS
D90
HIDING FACTOR FOR PARTICULAR SIZE CLASS
HIDING FACTOR FORMULA
INITIAL FRACTION FOR PARTICULAR SIZE CLASS
NUMBER OF SIZE-CLASSES OF BED MATERIAL
SEDIMENT DIAMETERS
VERTICAL GRAIN SORTING MODEL

2.2 BED-LOAD

B VALUE FOR THE BIJKER FORMULA
BED LOAD
BED-LOAD TRANSPORT FORMULA

2.3 C-VSM

C-VSM DYNAMIC ALT MODEL
C-VSM FULL PRINTOUT PERIOD
C-VSM MAXIMUM SECTIONS
C-VSM PRINTOUT SELECTION
VERTICAL GRAIN SORTING MODEL

2.4 COHESIVE SEDIMENT

CRITICAL EROSION SHEAR STRESS OF THE MUD
MUD CONCENTRATION PER LAYER

2.5 COMPUTATION ENVIRONMENT

DICTIONARY

2.6 COMPUTATIONAL INFORMATION

DEFAULT EXECUTABLE
DEFAULT PARALLEL EXECUTABLE
DESCRIPTION OF LIBRARIES
MINIMUM DEPTH FOR BEDLOAD
MORPHOLOGICAL FACTOR
RELEASE
TITLE

2.7 CONSOLIDATION

CONSOLIDATION MODEL
GEL CONCENTRATION
MASS TRANSFER PER LAYER
MAXIMUM CONCENTRATION
MUD CONSOLIDATION
NUMBER OF LAYERS OF THE CONSOLIDATION MODEL
PERMEABILITY COEFFICIENT

2.8 DATA FILES

BOTTOM TOPOGRAPHY FILE
BOUNDARY CONDITIONS FILE
FORTRAN FILE
HYDRODYNAMIC FILE FORMAT
REFERENCE FILE
REFERENCE FILE FORMAT
SECTIONS INPUT FILE
WAVE FILE
WAVE FILE FORMAT

2.9 EQUATIONS, ADVECTION

SCHEME OPTION FOR ADVECTION

2.10 EQUATIONS, BOUNDARY CONDITIONS

PRESCRIBED SOLID DISCHARGES

2.11 FRICTION

FRICTION COEFFICIENT
LAW OF BOTTOM FRICTION
RATIO BETWEEN SKIN FRICTION AND MEAN DIAMETER
SKIN FRICTION CORRECTION

2.12 GENERAL

BED ROUGHNESS PREDICTOR OPTION
CHECKING THE MESH
CONSTANT FLOW DISCHARGE
CONTROL SECTIONS
CRITERION TO UPDATE THE FLOW
CRITICAL EVOLUTION RATIO
EFFECT OF WAVES
FLUXLINE
FLUXLINE INPUT FILE
GRAIN-FEEDING
MASS CONCENTRATION
MAXIMUM NUMBER OF BOUNDARIES
MINIMAL VALUE OF THE WATER HEIGHT
MINIMUM DEPTH FOR BEDLOAD
MIXED SEDIMENT
MORPHOLOGICAL FACTOR
NUMBER OF BED LOAD MODEL LAYERS
NUMBER OF CORRECTIONS OF DISTRIBUTIVE SCHEMES
NUMBER OF ITERATIONS FOR TELEMAC
NUMBER OF SUB-STEPS OF DISTRIBUTIVE SCHEMES
OPTION FOR THE TREATMENT OF NON ERODABLE BEDS
PARTITIONING TOOL
SCHEME OPTION FOR ADVECTION
SECONDARY CURRENTS
SECONDARY CURRENTS ALPHA COEFFICIENT
SHIELDS PARAMETERS
STATIONARY MODE
STEADY CASE
TIDAL FLATS
TREATMENT OF FLUXES AT THE BOUNDARIES

2.13 INITIAL CONDITIONS

COMPUTATION CONTINUED
PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE

PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE FORMAT

2.14 INPUT-OUTPUT, FILES

GEOMETRY FILE
GEOMETRY FILE FORMAT
HYDRODYNAMIC FILE
LIQUID BOUNDARIES FILE
LIST OF FILES
NAMES OF DIFFERENTIATORS
NAMES OF PRIVATE VARIABLES
NUMBER OF DIFFERENTIATORS

2.15 INPUT-OUTPUT, GRAPHICS AND LISTING

VARIABLES FOR GRAPHIC PRINTOUTS

2.16 INPUT-OUTPUT, INFORMATION

DEFAULT EXECUTABLE
DEFAULT PARALLEL EXECUTABLE
DESCRIPTION OF LIBRARIES
DICTIONARY
MESHING
RELEASE
TITLE

2.17 MESH GENERATOR

MESHING

2.18 MISCELLANEOUS

DEBUGGER
NESTOR
NESTOR ACTION FILE
NESTOR POLYGON FILE
NESTOR RESTART FILE
NESTOR SURFACE REFERENCE FILE
NUMBER OF PRIVATE ARRAYS
OPTION FOR THE TREATMENT OF TIDAL FLATS
ORIGIN COORDINATES
PARALLEL PROCESSORS
VALIDATION

2.19 NAMES

GEOMETRY FILE
HYDRODYNAMIC FILE
LIQUID BOUNDARIES FILE
LIST OF FILES
NAMES OF DIFFERENTIATORS
NAMES OF PRIVATE VARIABLES
NUMBER OF DIFFERENTIATORS

2.20 NONEQUILIBRIUM BED LOAD

BED ROUGHNESS PREDICTION

2.21 NUMERICAL

FINITE VOLUMES
MASS-LUMPING
MATRIX STORAGE
MATRIX-VECTOR PRODUCT
OPTION FOR THE DIFFUSION OF TRACER
SUPG OPTION
TETA
TYPE OF ADVECTION
ZERO

2.22 NUMERICAL PARAMETERS

BED ROUGHNESS PREDICTOR OPTION
MAXIMUM NUMBER OF ITERATIONS FOR ADVECTION SCHEMES
NUMBER OF CORRECTIONS OF DISTRIBUTIVE SCHEMES
NUMBER OF SUB-STEPS OF DISTRIBUTIVE SCHEMES
PARTITIONING TOOL
SOLVER FOR SUSPENSION
TREATMENT OF FLUXES AT THE BOUNDARIES

2.23 PHYSICS

GRAVITY ACCELERATION
NON COHESIVE BED POROSITY
SEDIMENT DENSITY
SETTLING LAG
WATER DENSITY
WATER VISCOSITY

2.24 RESULTS

GRAPHIC PRINTOUT PERIOD
LISTING PRINTOUT PERIOD
MASS-BALANCE
RESULTS FILE
RESULTS FILE FORMAT
SECTIONS OUTPUT FILE
VARIABLES TO BE PRINTED

2.25 SEDIMENT TRANSPORT

BED ROUGHNESS PREDICTION

2.26 SEDIMENTOLOGY

SECONDARY CURRENTS ALPHA COEFFICIENT

2.27 SLOPE EFFECT

BETA
FORMULA FOR DEVIATION
FORMULA FOR SLOPE EFFECT
FRICTION ANGLE OF THE SEDIMENT
PARAMETER FOR DEVIATION
SEDIMENT SLIDE
SLOPE EFFECT

2.28 SOLVER

MAXIMUM NUMBER OF ITERATIONS FOR SOLVER
MAXIMUM NUMBER OF ITERATIONS FOR SOLVER FOR SUSPENSION
PRECONDITIONING
PRECONDITIONING FOR SUSPENSION
SOLVER
SOLVER ACCURACY
SOLVER ACCURACY FOR SUSPENSION
SOLVER FOR SUSPENSION
SOLVER OPTION
SOLVER OPTION FOR SUSPENSION

2.29 SUSPENSION

CONCENTRATION PER CLASS AT BOUNDARIES
CORRECTION ON CONVECTION VELOCITY
CRITICAL SHEAR VELOCITY FOR MUD DEPOSITION

DIFFUSION
DISPERSION ACROSS THE FLOW
DISPERSION ALONG THE FLOW
EQUILIBRIUM INFLOW CONCENTRATION
FORMULATION FOR DEPOSITION AND EROSION
INITIAL SUSPENSION CONCENTRATIONS
OPTION FOR THE DISPERSION
PARTHENIADES CONSTANT
REFERENCE CONCENTRATION FORMULA
SETTLING VELOCITIES
SOLVER FOR SUSPENSION
SUSPENSION
TETA SUSPENSION

2.30 TIME

NUMBER OF SUB-ITERATIONS
NUMBER OF TIDES OR FLOODS
NUMBER OF TIME STEPS
ORIGINAL DATE OF TIME
ORIGINAL HOUR OF TIME
STARTING TIME OF THE HYDROGRAM
TIDE PERIOD
TIME STEP

2.31 USELESS

BINARY OF THE PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE
CPU TIME
FREE INTEGER 1
FREE INTEGER 2
FREE LOGICAL 1
GEOMETRY FILE BINARY
GRAPHIC SOFTWARE
GRAPHIC SOFTWARE OF THE HYDRODYNAMIC COMPUTATION
HYDRODYNAMIC CODE
HYDRODYNAMIC FILE BINARY
LIBRARIES
MEAN DIAMETER OF THE SEDIMENT
MEMORY SPACE CRAY
PASSWORD CRAY
PVM1 LIBRARY
PVM2 LIBRARY
REFERENCE FILE BINARY
RESULTS FILE BINARY
STEERING FILE
USER CRAY

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VECTOR LENGTH
```

3. Glossary

3.1 English/French glossary

ACTIVE LAYER THICKNESS	EPAISSEUR DE COUCHE ACTIVE
B VALUE FOR THE BIJKER FORMULA	COEFFICIENT B DE LA FORMULE DE BIJKER
BED LOAD	CHARRIAGE
BED ROUGHNESS PREDICTION	PREDICTION DE LA RUGOSITE
BED ROUGHNESS PREDICTOR OPTION	OPTION DU PREDICTEUR DE RUGOSITE
BED-LOAD TRANSPORT FORMULA	FORMULE DE TRANSPORT SOLIDE
BETA	BETA
BINARY OF THE PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE	STANDARD DU FICHIER PRECEDENT SEDIMENTOLOGIQUE
BOTTOM TOPOGRAPHY FILE	FICHIER DES FONDS
BOUNDARY CONDITIONS FILE	FICHIER DES CONDITIONS AUX LIMITES
C-VSM DYNAMIC ALT MODEL	C-VSM DYNAMIC ALT MODEL
C-VSM FULL PRINTOUT PERIOD	C-VSM FULL PRINTOUT PERIOD
C-VSM MAXIMUM SECTIONS	C-VSM MAXIMUM SECTIONS
C-VSM PRINTOUT SELECTION	C-VSM PRINTOUT SELECTION
CHECKING THE MESH	VERIFICATION DU MAILLAGE
COHESIVE SEDIMENTS	SEDIMENTS COHESIFS
COMPUTATION CONTINUED	SUITE DE CALCUL
CONCENTRATION PER CLASS AT BOUNDARIES	CONCENTRATIONS PAR CLASSE AUX FRONTIERES
CONSOLIDATION MODEL	OPTION DU MODELE DE TASSEMENT
CONSTANT ACTIVE LAYER THICKNESS	EPAISSEUR DE COUCHE ACTIVE CONSTANTE
CONSTANT FLOW DISCHARGE	CONSTANT FLOW DISCHARGE
CONTROL SECTIONS	SECTIONS DE CONTROLE
CORRECTION ON CONVECTION VELOCITY	CORRECTION DU CHAMP CONVECTEUR

CPU TIME	TEMPS MACHINE CRAY
CRITERION TO UPDATE THE FLOW	CRITERE POUR METTRE A JOUR L'HYDRODYNAMIQUE
CRITICAL EROSION SHEAR STRESS OF THE MUD	CONTRAINTE CRITIQUE D'EROSION DE LA VASE
CRITICAL EVOLUTION RATIO	RAPPORT D'EVOLUTION CRITIQUE
CRITICAL SHEAR VELOCITY FOR MUD DEPOSITION	VITESSE CRITIQUE DE DEPOT DE LA VASE
D90	D90
DEBUGGER	DEBUGGER
DEFAULT EXECUTABLE	EXECUTABLE PAR DEFAUT
DEFAULT PARALLEL EXECUTABLE	EXECUTABLE PARALLELE PAR DEFAUT
DESCRIPTION OF LIBRARIES	DESCRIPTION DES LIBRAIRIES
DICTIONARY	DICTIONNAIRE
DIFFUSION	DIFFUSION
DISPERSION ACROSS THE FLOW	DISPERSION TRANSVERSALE
DISPERSION ALONG THE FLOW	DISPERSION LONGITUDINALE
EFFECT OF WAVES	PRISE EN COMPTE DE LA HOULE
EQUILIBRIUM INFLOW CONCENTRATION	CONCENTRATION D'EQUILIBRE EN ENTREE
FINITE VOLUMES	VOLUMES FINIS
FLUXLINE	FLUXLINE
FLUXLINE INPUT FILE	FICHIER DE FLUXLINE
FORMULA FOR DEVIATION	FORMULE POUR LA DEVIATION
FORMULA FOR SLOPE EFFECT	FORMULE POUR EFFET DE PENTE
FORMULATION FOR DEPOSITION AND EROSION	FORMULATION POUR DEPOT ET EROSION
FORTRAN FILE	FICHIER FORTRAN
FREE INTEGER 1	FREE INTEGER 1
FREE INTEGER 2	FREE INTEGER 2
FREE LOGICAL 1	FREE LOGICAL 1
FRICTION ANGLE OF THE SEDIMENT	ANGLE DE FROTTEMENT DU SEDIMENT
FRICTION COEFFICIENT	COEFFICIENT DE FROTTEMENT
GEL CONCENTRATION	CONCENTRATION GEL
GEOMETRY FILE	FICHIER DE GEOMETRIE
GEOMETRY FILE BINARY	STANDARD DU FICHIER DE GEOMETRIE
GEOMETRY FILE FORMAT	FORMAT DU FICHIER DE GEOMETRIE
GRAIN-FEEDING	GRAIN-FEEDING
GRAPHIC PRINTOUT PERIOD	PERIODE DE SORTIE GRAPHIQUE
GRAPHIC SOFTWARE	LOGICIEL DE DESSIN
GRAPHIC SOFTWARE OF THE HYDRODYNAMIC COMPUTATION	LOGICIEL DE DESSIN DU CALCUL PRECEDENT
GRAVITY ACCELERATION	GRAVITE
HIDING FACTOR FOR PARTICULAR SIZE CLASS	HIDING FACTOR PAR CLASSE GRANULO
HIDING FACTOR FORMULA	HIDING FACTOR FORMULA

HYDRODYNAMIC CODE	CODE DE CALCUL UTILISE POUR L'HYDRODYNAMIQUE
HYDRODYNAMIC FILE	FICHIER HYDRODYNAMIQUE
HYDRODYNAMIC FILE BINARY	STANDARD DU FICHIER HYDRODYNAMIQUE
HYDRODYNAMIC FILE FORMAT	FORMAT DU FICHIER HYDRODYNAMIQUE
INITIAL FRACTION FOR PARTICULAR SIZE CLASS	FRACTION INITIALE PAR CLASSE SEDIMENTOLOGIQUE
INITIAL SUSPENSION CONCENTRATIONS	CONCENTRATIONS INITIALES EN SUSPENSION
LAW OF BOTTOM FRICTION	LOI DE FROTTEMENT SUR LE FOND
LIBRARIES	BIBLIOTHEQUES
LIQUID BOUNDARIES FILE	FICHIER DES FRONTIERES LIQUIDES
LIST OF FILES	LISTE DES FICHIERS
LISTING PRINTOUT PERIOD	PERIODE DE SORTIE LISTING
MASS CONCENTRATION	CONCENTRATION MASSIQUE
MASS TRANSFER PER LAYER	TRANSFERT DE MASSE PAR COUCHE
MASS-BALANCE	BILAN DE MASSE
MASS-LUMPING	MASS-LUMPING
MATRIX STORAGE	STOCKAGE DES MATRICES
MATRIX-VECTOR PRODUCT	PRODUIT MATRICE-VECTEUR
MAXIMUM CONCENTRATION	CONCENTRATION MAXIMALE
MAXIMUM NUMBER OF BOUNDARIES	NOMBRE MAXIMUM DE FRONTIERES
MAXIMUM NUMBER OF ITERATIONS FOR ADVECTION SCHEMES	MAXIMUM D'ITERATIONS POUR LES SCHEMAS DE CONVECTION
MAXIMUM NUMBER OF ITERATIONS FOR SOLVER	MAXIMUM D'ITERATIONS POUR LE SOLVEUR
MAXIMUM NUMBER OF ITERATIONS FOR SOLVER FOR SUSPENSION	MAXIMUM D'ITERATIONS POUR LE SOLVEUR POUR LA SUSPENSION
MEAN DIAMETER OF THE SEDIMENT	DIAMETRE MOYEN DES GRAINS
MEMORY SPACE CRAY	PLACE MEMOIRE CRAY
MESHING	MAILLEUR
MINIMAL VALUE OF THE WATER HEIGHT	VALEUR MINIMUM DE H
MINIMUM DEPTH FOR BEDLOAD	PROFONDEUR MINIMUM POUR LE CHARRIAGE
MIXED SEDIMENT	SEDIMENT MIXTE
MORPHOLOGICAL FACTOR	FACTEUR MORPHOLOGIQUE
MPM COEFFICIENT	MPM COEFFICIENT
MUD CONCENTRATION PER LAYER	CONCENTRATIONS DU LIT DE VASE
MUD CONSOLIDATION	TASSEMENT DU LIT COHESIF
NAMES OF DIFFERENTIATORS	NOMS DES DIFFERENTIATEURS
NAMES OF PRIVATE VARIABLES	NOMS DES VARIABLES PRIVEES
NESTOR	NESTOR
NESTOR ACTION FILE	FICHIER DE NESTOR ACTION
NESTOR POLYGON FILE	FICHIER DE NESTOR POLYGON

NESTOR RESTART FILE	FICHIER DE NESTOR RESTART
NESTOR SURFACE REFERENCE FILE	FICHIER DE NESTOR DE SURFACE REFERENCE
NON COHESIVE BED POROSITY	POROSITE DU LIT NON COHESIF
NUMBER OF BED LOAD MODEL LAYERS	NOMBRE DE COUCHES POUR GRANULO ETENDUE
NUMBER OF CORRECTIONS OF DISTRIBUTIVE SCHEMES	NOMBRE DE CORRECTIONS DES SCHEMAS DISTRIBUTIFS
NUMBER OF DIFFERENTIATORS	NOMBRE DE DIFFERENTIATEURS
NUMBER OF ITERATIONS FOR TELEMAC	NOMBRE D'ITERATIONS POUR TELEMAC
NUMBER OF LAYERS OF THE CONSOLIDATION MODEL	NOMBRE DE COUCHES POUR LE TASSEMENT
NUMBER OF PRIVATE ARRAYS	NOMBRE DE TABLEAUX PRIVES
NUMBER OF SIZE-CLASSES OF BED MATERIAL	NOMBRE DE CLASSES GRANULOMETRIQUES
NUMBER OF SUB-ITERATIONS	NOMBRE DE SOUS-ITERATIONS
NUMBER OF SUB-STEPS OF DISTRIBUTIVE SCHEMES	NOMBRE DE SOUS-PAS DES SCHEMAS DISTRIBUTIFS
NUMBER OF TIDES OR FLOODS	NOMBRE DE MAREES OU CRUES
NUMBER OF TIME STEPS	NOMBRE DE PAS DE TEMPS
OPTION FOR THE DIFFUSION OF TRACER	OPTION POUR LA DIFFUSION DU TRACEUR
OPTION FOR THE DISPERSION	OPTION POUR LA DISPERSION
OPTION FOR THE TREATMENT OF NON ERODABLE BEDS	OPTION DE TRAITEMENT DES FONDS NON ERODABLES
OPTION FOR THE TREATMENT OF TIDAL FLATS	OPTION DE TRAITEMENT DES BANCS DECOUVRANTS
ORIGIN COORDINATES	COORDONNEES DE L'ORIGINE
ORIGINAL DATE OF TIME	DATE DE L'ORIGINE DES TEMPS
ORIGINAL HOUR OF TIME	HEURE DE L'ORIGINE DES TEMPS
PARALLEL PROCESSORS	PROCESSEURS PARALLELES
PARAMETER FOR DEVIATION	PARAMETRE POUR LA DEVIATION
PARTHENIADES CONSTANT	CONSTANTE DE PARTHENIADES
PARTITIONING TOOL	PARTITIONNEUR
PASSWORD CRAY	MOT DE PASSE CRAY
PERMEABILITY COEFFICIENT	COEFFICIENT DE PERMEABILITE
PRECONDITIONING	PRECONDITIONNEMENT
PRECONDITIONING FOR SUSPENSION	PRECONDITIONNEMENT POUR LA SUSPENSION
PRESCRIBED SOLID DISCHARGES	DEBITS SOLIDES IMPOSES
PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE	FICHIER PRECEDENT SEDIMENTOLOGIQUE
PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE FORMAT	FORMAT DU FICHIER PRECEDENT SEDIMENTOLOGIQUE
PVM1 LIBRARY	BIBLIOTHEQUE PVM1
PVM2 LIBRARY	BIBLIOTHEQUE PVM2

RATIO BETWEEN SKIN FRICTION AND MEAN DIAMETER	RATIO ENTRE LA RUGOSITE DE PEAU ET LE DIAMETRE MOYEN
REFERENCE CONCENTRATION FORMULA	FORMULE POUR LA CONCENTRATION DE REFERENCE
REFERENCE FILE	FICHIER DE REFERENCE
REFERENCE FILE BINARY	STANDARD DU FICHIER DE REFERENCE
REFERENCE FILE FORMAT	FORMAT DU FICHIER DE REFERENCE
RELEASE	NUMERO DE VERSION
RESULTS FILE	FICHIER DES RESULTATS
RESULTS FILE BINARY	STANDARD DU FICHIER RESULTAT
RESULTS FILE FORMAT	FORMAT DU FICHIER DES RESULTATS
SCHEME OPTION FOR ADVECTION	OPTION DU SCHEMA POUR LA CONVECTION
SECONDARY CURRENTS	COURANTS SECONDAIRES
SECONDARY CURRENTS ALPHA COEFFICIENT	SECONDARY CURRENTS ALPHA COEFFICIENT
SECTIONS INPUT FILE	FICHIER DES SECTIONS DE CONTROLE
SECTIONS OUTPUT FILE	SECTIONS OUTPUT FILE
SEDIMENT DENSITY	MASSE VOLUMIQUE DU SEDIMENT
SEDIMENT DIAMETERS	DIAMETRES DES GRAINS
SEDIMENT SLIDE	GLISSEMENT DU SEDIMENT
SETTLING LAG	SETTLING LAG
SETTLING VELOCITIES	VITESSES DE CHUTE
SHIELDS PARAMETERS	PARAMETRES DE SHIELDS
SKIN FRICTION CORRECTION	CORRECTION FROTTEMENT DE PEAU
SLOPE EFFECT	EFFET DE PENTE
SOLVER	SOLVEUR
SOLVER ACCURACY	PRECISION DU SOLVEUR
SOLVER ACCURACY FOR SUSPENSION	PRECISION DU SOLVEUR POUR LA SUSPENSION
SOLVER FOR SUSPENSION	SOLVEUR POUR LA SUSPENSION
SOLVER OPTION	OPTION DU SOLVEUR
SOLVER OPTION FOR SUSPENSION	OPTION DU SOLVEUR POUR LA SUSPENSION
STARTING TIME OF THE HYDROGRAM	TEMPS D'ORIGINE DE L'HYDROGRAMME
STATIONARY MODE	STATIONARY MODE
STEADY CASE	CAS PERMANENT
STEERING FILE	FICHIER DES PARAMETRES
SUPG OPTION	OPTION DE SUPG
SUSPENSION	SUSPENSION
TETA	TETA
TETA SUSPENSION	TETA SUSPENSION
TIDAL FLATS	BANCS DECOUVRANTS
TIDE PERIOD	PERIODE DE LA MAREE

TIME STEP	PAS DE TEMPS
TITLE	TITRE
TREATMENT OF FLUXES AT THE BOUNDARIES	TRAITEMENT DES FLUX AUX FRONTIERES
TYPE OF ADVECTION	FORME DE LA CONVECTION
USER CRAY	USER CRAY
VALIDATION	VALIDATION
VARIABLES FOR GRAPHIC PRINTOUTS	VARIABLES POUR LES SORTIES GRAPHIQUES
VARIABLES TO BE PRINTED	VARIABLES A IMPRIMER
VECTOR LENGTH	LONGUEUR DU VECTEUR
VERTICAL GRAIN SORTING MODEL	VERTICAL GRAIN SORTING MODEL
WATER DENSITY	MASSE VOLUMIQUE DE L'EAU
WATER VISCOSITY	VISCOSITE CINEMATIQUE EAU
WAVE FILE	FICHIER DE HOULE
WAVE FILE FORMAT	FORMAT DU FICHIER DE HOULE
ZERO	ZERO

3.2 French/English glossary

ANGLE DE FROTTEMENT DU SEDIMENT	FRICTION ANGLE OF THE SEDIMENT
BANCS DECOUVRANTS	TIDAL FLATS
BETA	BETA
BIBLIOTHEQUE PVM1	PVM1 LIBRARY
BIBLIOTHEQUE PVM2	PVM2 LIBRARY
BIBLIOTHEQUES	LIBRARIES
BILAN DE MASSE	MASS-BALANCE
C-VSM DYNAMIC ALT MODEL	C-VSM DYNAMIC ALT MODEL
C-VSM FULL PRINTOUT PERIOD	C-VSM FULL PRINTOUT PERIOD
C-VSM MAXIMUM SECTIONS	C-VSM MAXIMUM SECTIONS
C-VSM PRINTOUT SELECTION	C-VSM PRINTOUT SELECTION
CAS PERMANENT	STEADY CASE
CHARRIAGE	BED LOAD
CODE DE CALCUL UTILISE POUR L'HYDRODYNAMIQUE	HYDRODYNAMIC CODE
COEFFICIENT B DE LA FORMULE DE BIJKER	B VALUE FOR THE BIJKER FORMULA
COEFFICIENT DE FROTTEMENT	FRICTION COEFFICIENT
COEFFICIENT DE PERMEABILITE	PERMEABILITY COEFFICIENT
CONCENTRATION D'EQUILIBRE EN ENTREE	EQUILIBRIUM INFLOW CONCENTRATION
CONCENTRATION GEL	GEL CONCENTRATION
CONCENTRATION MASSIQUE	MASS CONCENTRATION
CONCENTRATION MAXIMALE	MAXIMUM CONCENTRATION
CONCENTRATIONS DU LIT DE VASE	MUD CONCENTRATION PER LAYER
CONCENTRATIONS INITIALES EN SUSPENSION	INITIAL SUSPENSION CONCENTRATIONS

CONCENTRATIONS PAR CLASSE AUX FRONTIERES	CONCENTRATION PER CLASS AT BOUNDARIES
CONSTANT FLOW DISCHARGE	CONSTANT FLOW DISCHARGE
CONSTANTE DE PARTHENIADES	PARTHENIADES CONSTANT
CONTRAINTE CRITIQUE D'EROSION DE LA VASE	CRITICAL EROSION SHEAR STRESS OF THE MUD
COORDONNEES DE L'ORIGINE	ORIGIN COORDINATES
CORRECTION DU CHAMP CONVECTEUR	CORRECTION ON CONVECTION VELOCITY
CORRECTION FROTTEMENT DE PEAU	SKIN FRICTION CORRECTION
COURANTS SECONDAIRES	SECONDARY CURRENTS
CRITERE POUR METTRE A JOUR L'HYDRODYNAMIQUE	CRITERION TO UPDATE THE FLOW
D90	D90
DATE DE L'ORIGINE DES TEMPS	ORIGINAL DATE OF TIME
DEBITS SOLIDES IMPOSES	PRESCRIBED SOLID DISCHARGES
DEBUGGER	DEBUGGER
DESCRIPTION DES LIBRAIRIES	DESCRIPTION OF LIBRARIES
DIAMETRE MOYEN DES GRAINS	MEAN DIAMETER OF THE SEDIMENT
DIAMETRES DES GRAINS	SEDIMENT DIAMETERS
DICTIONNAIRE	DICTIONARY
DIFFUSION	DIFFUSION
DISPERSION LONGITUDINALE	DISPERSION ALONG THE FLOW
DISPERSION TRANSVERSALE	DISPERSION ACROSS THE FLOW
EFFET DE PENTE	SLOPE EFFECT
EPAISSEUR DE COUCHE ACTIVE	ACTIVE LAYER THICKNESS
EPAISSEUR DE COUCHE ACTIVE CONSTANTE	CONSTANT ACTIVE LAYER THICKNESS
EXECUTABLE PAR DEFAUT	DEFAULT EXECUTABLE
EXECUTABLE PARALLELE PAR DEFAUT	DEFAULT PARALLEL EXECUTABLE
FACTEUR MORPHOLOGIQUE	MORPHOLOGICAL FACTOR
FICHIER DE FLUXLINE	FLUXLINE INPUT FILE
FICHIER DE GEOMETRIE	GEOMETRY FILE
FICHIER DE HOULE	WAVE FILE
FICHIER DE NESTOR ACTION	NESTOR ACTION FILE
FICHIER DE NESTOR DE SURFACE REFERENCE	NESTOR SURFACE REFERENCE FILE
FICHIER DE NESTOR POLYGON	NESTOR POLYGON FILE
FICHIER DE NESTOR RESTART	NESTOR RESTART FILE
FICHIER DE REFERENCE	REFERENCE FILE
FICHIER DES CONDITIONS AUX LIMITES	BOUNDARY CONDITIONS FILE
FICHIER DES FONDS	BOTTOM TOPOGRAPHY FILE
FICHIER DES FRONTIERES LIQUIDES	LIQUID BOUNDARIES FILE
FICHIER DES PARAMETRES	STEERING FILE
FICHIER DES RESULTATS	RESULTS FILE

FICHIER DES SECTIONS DE CONTROLE	SECTIONS INPUT FILE
FICHIER FORTRAN	FORTRAN FILE
FICHIER HYDRODYNAMIQUE	HYDRODYNAMIC FILE
FICHIER PRECEDENT SEDIMENTOLOGIQUE	PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE
FLUXLINE	FLUXLINE
FORMAT DU FICHIER DE GEOMETRIE	GEOMETRY FILE FORMAT
FORMAT DU FICHIER DE HOULE	WAVE FILE FORMAT
FORMAT DU FICHIER DE REFERENCE	REFERENCE FILE FORMAT
FORMAT DU FICHIER DES RESULTATS	RESULTS FILE FORMAT
FORMAT DU FICHIER HYDRODYNAMIQUE	HYDRODYNAMIC FILE FORMAT
FORMAT DU FICHIER PRECEDENT SEDIMENTOLOGIQUE	PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE FORMAT
FORME DE LA CONVECTION	TYPE OF ADVECTION
FORMULATION POUR DEPOT ET EROSION	FORMULATION FOR DEPOSITION AND EROSION
FORMULE DE TRANSPORT SOLIDE	BED-LOAD TRANSPORT FORMULA
FORMULE POUR EFFET DE PENTE	FORMULA FOR SLOPE EFFECT
FORMULE POUR LA CONCENTRATION DE REFERENCE	REFERENCE CONCENTRATION FORMULA
FORMULE POUR LA DEVIATION	FORMULA FOR DEVIATION
FRACTION INITIALE PAR CLASSE SEDIMENTOLOGIQUE	INITIAL FRACTION FOR PARTICULAR SIZE CLASS
FREE INTEGER 1	FREE INTEGER 1
FREE INTEGER 2	FREE INTEGER 2
FREE LOGICAL 1	FREE LOGICAL 1
GLISSEMENT DU SEDIMENT	SEDIMENT SLIDE
GRAIN-FEEDING	GRAIN-FEEDING
GRAVITE	GRAVITY ACCELERATION
HEURE DE L'ORIGINE DES TEMPS	ORIGINAL HOUR OF TIME
HIDING FACTOR FORMULA	HIDING FACTOR FORMULA
HIDING FACTOR PAR CLASSE GRANULO	HIDING FACTOR FOR PARTICULAR SIZE CLASS
LISTE DES FICHIERS	LIST OF FILES
LOGICIEL DE DESSIN	GRAPHIC SOFTWARE
LOGICIEL DE DESSIN DU CALCUL PRECEDENT	GRAPHIC SOFTWARE OF THE HYDRODYNAMIC COMPUTATION
LOI DE FROTTEMENT SUR LE FOND	LAW OF BOTTOM FRICTION
LONGUEUR DU VECTEUR	VECTOR LENGTH
MAILLEUR	MESHING
MASS-LUMPING	MASS-LUMPING
MASSE VOLUMIQUE DE L'EAU	WATER DENSITY
MASSE VOLUMIQUE DU SEDIMENT	SEDIMENT DENSITY
MAXIMUM D'ITERATIONS POUR LE SOLVEUR	MAXIMUM NUMBER OF ITERATIONS FOR SOLVER

MAXIMUM D'ITERATIONS POUR LE SOLVEUR POUR LA SUSPENSION	MAXIMUM NUMBER OF ITERATIONS FOR SOLVER FOR SUSPENSION
MAXIMUM D'ITERATIONS POUR LES SCHEMAS DE CONVECTION	MAXIMUM NUMBER OF ITERATIONS FOR ADVECTION SCHEMES
MOT DE PASSE CRAY	PASSWORD CRAY
MPM COEFFICIENT	MPM COEFFICIENT
NESTOR	NESTOR
NOMBRE D'ITERATIONS POUR TELEMAC	NUMBER OF ITERATIONS FOR TELEMAC
NOMBRE DE CLASSES GRANULOMETRIQUES	NUMBER OF SIZE-CLASSES OF BED MATERIAL
NOMBRE DE CORRECTIONS DES SCHEMAS DISTRIBUTIFS	NUMBER OF CORRECTIONS OF DISTRIBUTIVE SCHEMES
NOMBRE DE COUCHES POUR GRANULO ETENDUE	NUMBER OF BED LOAD MODEL LAYERS
NOMBRE DE COUCHES POUR LE TASSEMENT	NUMBER OF LAYERS OF THE CONSOLIDATION MODEL
NOMBRE DE DIFFERENTIATEURS	NUMBER OF DIFFERENTIATORS
NOMBRE DE MAREES OU CRUES	NUMBER OF TIDES OR FLOODS
NOMBRE DE PAS DE TEMPS	NUMBER OF TIME STEPS
NOMBRE DE SOUS-ITERATIONS	NUMBER OF SUB-ITERATIONS
NOMBRE DE SOUS-PAS DES SCHEMAS DISTRIBUTIFS	NUMBER OF SUB-STEPS OF DISTRIBUTIVE SCHEMES
NOMBRE DE TABLEAUX PRIVES	NUMBER OF PRIVATE ARRAYS
NOMBRE MAXIMUM DE FRONTIERES	MAXIMUM NUMBER OF BOUNDARIES
NOMS DES DIFFERENTIATEURS	NAMES OF DIFFERENTIATORS
NOMS DES VARIABLES PRIVEES	NAMES OF PRIVATE VARIABLES
NUMERO DE VERSION	RELEASE
OPTION DE SUPG	SUPG OPTION
OPTION DE TRAITEMENT DES BANCS DECOUVRANTS	OPTION FOR THE TREATMENT OF TIDAL FLATS
OPTION DE TRAITEMENT DES FONDS NON ERODABLES	OPTION FOR THE TREATMENT OF NON ERODABLE BEDS
OPTION DU MODELE DE TASSEMENT	CONSOLIDATION MODEL
OPTION DU PREDICTEUR DE RUGOSITE	BED ROUGHNESS PREDICTOR OPTION
OPTION DU SCHEMA POUR LA CONVECTION	SCHEME OPTION FOR ADVECTION
OPTION DU SOLVEUR	SOLVER OPTION
OPTION DU SOLVEUR POUR LA SUSPENSION	SOLVER OPTION FOR SUSPENSION
OPTION POUR LA DIFFUSION DU TRACEUR	OPTION FOR THE DIFFUSION OF TRACER
OPTION POUR LA DISPERSION	OPTION FOR THE DISPERSION
PARAMETRE POUR LA DEVIATION	PARAMETER FOR DEVIATION
PARAMETRES DE SHIELDS	SHIELDS PARAMETERS
PARTITIONNEUR	PARTITIONING TOOL

PAS DE TEMPS	TIME STEP
PERIODE DE LA MAREE	TIDE PERIOD
PERIODE DE SORTIE GRAPHIQUE	GRAPHIC PRINTOUT PERIOD
PERIODE DE SORTIE LISTING	LISTING PRINTOUT PERIOD
PLACE MEMOIRE CRAY	MEMORY SPACE CRAY
POROSITE DU LIT NON COHESIF	NON COHESIVE BED POROSITY
PRECISION DU SOLVEUR	SOLVER ACCURACY
PRECISION DU SOLVEUR POUR LA SUSPENSION	SOLVER ACCURACY FOR SUSPENSION
PRECONDITIONNEMENT	PRECONDITIONING
PRECONDITIONNEMENT POUR LA SUSPENSION	PRECONDITIONING FOR SUSPENSION
PREDICTION DE LA RUGOSITE	BED ROUGHNESS PREDICTION
PRISE EN COMPTE DE LA HOULE	EFFECT OF WAVES
PROCESSEURS PARALLELES	PARALLEL PROCESSORS
PRODUIT MATRICE-VECTEUR	MATRIX-VECTOR PRODUCT
PROFONDEUR MINIMUM POUR LE CHARRIAGE	MINIMUM DEPTH FOR BEDLOAD
RAPPORT D'EVOLUTION CRITIQUE	CRITICAL EVOLUTION RATIO
RATIO ENTRE LA RUGOSITE DE PEAU ET LE DIAMETRE MOYEN	RATIO BETWEEN SKIN FRICTION AND MEAN DIAMETER
SECONDARY CURRENTS ALPHA COEFFICIENT	SECONDARY CURRENTS ALPHA COEFFICIENT
SECTIONS DE CONTROLE	CONTROL SECTIONS
SECTIONS OUTPUT FILE	SECTIONS OUTPUT FILE
SEDIMENT MIXTE	MIXED SEDIMENT
SEDIMENTS COHESIFS	COHESIVE SEDIMENTS
SETTLING LAG	SETTLING LAG
SOLVEUR	SOLVER
SOLVEUR POUR LA SUSPENSION	SOLVER FOR SUSPENSION
STANDARD DU FICHIER DE GEOMETRIE	GEOMETRY FILE BINARY
STANDARD DU FICHIER DE REFERENCE	REFERENCE FILE BINARY
STANDARD DU FICHIER HYDRODYNAMIQUE	HYDRODYNAMIC FILE BINARY
STANDARD DU FICHIER PRECEDENT SEDIMENTOLOGIQUE	BINARY OF THE PREVIOUS SEDIMENTOLOGICAL COMPUTATION FILE
STANDARD DU FICHIER RESULTAT	RESULTS FILE BINARY
STATIONARY MODE	STATIONARY MODE
STOCKAGE DES MATRICES	MATRIX STORAGE
SUITE DE CALCUL	COMPUTATION CONTINUED
SUSPENSION	SUSPENSION
TASSEMENT DU LIT COHESIF	MUD CONSOLIDATION
TEMPS D'ORIGINE DE L'HYDROGRAMME	STARTING TIME OF THE HYDROGRAM

TEMPS MACHINE CRAY	CPU TIME
TETA	TETA
TETA SUSPENSION	TETA SUSPENSION
TITRE	TITLE
TRAITEMENT DES FLUX AUX FRONTIERES	TREATMENT OF FLUXES AT THE BOUNDARIES
TRANSFERT DE MASSE PAR COUCHE	MASS TRANSFER PER LAYER
USER CRAY	USER CRAY
VALEUR MINIMUM DE H	MINIMAL VALUE OF THE WATER HEIGHT
VALIDATION	VALIDATION
VARIABLES A IMPRIMER	VARIABLES TO BE PRINTED
VARIABLES POUR LES SORTIES GRAPHIQUES	VARIABLES FOR GRAPHIC PRINTOUTS
VERIFICATION DU MAILLAGE	CHECKING THE MESH
VERTICAL GRAIN SORTING MODEL	VERTICAL GRAIN SORTING MODEL
VISCOSITE CINEMATIQUE EAU	WATER VISCOSITY
VITESSE CRITIQUE DE DEPOT DE LA VASE	CRITICAL SHEAR VELOCITY FOR MUD DEPOSITION
VITESSES DE CHUTE	SETTLING VELOCITIES
VOLUMES FINIS	FINITE VOLUMES
ZERO	ZERO

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