Telemac2d

Reference Manual

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Contents

1. Detail list of keywords

1.1 ABSCISSAE OF SOURCES

Type : Real
Dimension : 2
Mnemo XSCE
DEFAULT VALUE : MANDATORY
French keyword : ABSCISSES DES SOURCES
abscissae of sources of flowrate and/or tracer

1.2 ACCURACY FOR DIFFUSION OF TRACERS

Type : Real
Dimension : 1
Mnemo EPSDIF
DEFAULT VALUE : 1.E-6
French keyword : PRECISION POUR LA DIFFUSION DES TRACEURS
Sets the required accuracy for computing the tracer diffusion.

1.3 ACCURACY OF EPSILON

Type : Real
Dimension : 1
Mnemo EPSIE
DEFAULT VALUE : 1.E-9
French keyword : PRECISION SUR EPSILON
Sets the required accuracy for computing epsilon in the diffusion and source-terms step of the k-epsilon model.

1.4 ACCURACY OF K

Type : Real
Dimension : 1
Mnemo EPSIK
DEFAULT VALUE : 1.E-9
French keyword : PRECISION SUR K

Sets the required accuracy for computing k in the diffusion and source terms step of the k-epsilon model.

1.5 ACCURACY OF SPALART-ALLMARAS

Type : Real
Dimension : 1
Mnemo EPSSA
DEFAULT VALUE : 1.E-9
French keyword : `PRECISION SUR SPALART-ALLMARAS`
Sets the required accuracy for the model spalart-allmaras in the diffusion and source-terms step of the k-epsilon model.

1.6 AD LINEAR SOLVER DERIVATIVE CONVERGENCE

Type : Logical
Dimension : 1
Mnemo AD_LINSOLV_DERIVATIVE_CONVERGENCE
DEFAULT VALUE : YES
French keyword : `AD CONVERGENCE DES DERIVEES POUR LE SOLVEUR LINEAIRE`
Iterative linear solvers: derivative convergence test for AD.

1.7 AD LINEAR SOLVER RESET DERIVATIVES

Type : Logical
Dimension : 1
Mnemo AD_LINSOLV_RESETDERIV
DEFAULT VALUE : YES
French keyword : `AD REMISE A ZERO DES DERIVEES DU SOLVEUR LINEAIRE`
Resets the derivatives for AD.

1.8 AD NAMES OF DERIVATIVES

Type : String
Dimension : 2
Mnemo NAME_ADVAR
DEFAULT VALUE : 'MANDATORY'
French keyword : `AD NOMS DES DERIVEES`
Name of user differentiators in 32 characters, 16 for the name, 16 for the unit.

1.9 AD NUMBER OF DERIVATIVES

Type : Integer
Dimension : 1
Mnemo NADVAR
DEFAULT VALUE : 0
French keyword : `AD NOMBRE DE DERIVEES`
Defines the number of user derivatives, within the framework of the algorithmic differentiation.

1.10 AD SYMBOLIC LINEAR SOLVER

Type :	Logical
Dimension :	1
Mnemo	AD_SYMBLINSOLV
DEFAULT VALUE :	NO
French keyword :	`AD SOLVEUR LINEAIRE SYMBOLIQUE`

Enables the symbolic linear solver for AD.

1.11 ADVECTION

Type :	Logical
Dimension :	1
Mnemo	CONV
DEFAULT VALUE :	YES
French keyword :	`CONVECTION`

Are the advection terms taken into account or not? If YES, some advection terms can still be deleted using the keywords -ADVECTION OF ..-

1.12 ADVECTION OF H

Type :	Logical
Dimension :	1
Mnemo	CONVV(2)
DEFAULT VALUE :	YES
French keyword :	`CONVECTION DE H`

The advection of H is taken into account or ignored. Actually, in version 2.0, the matter is about C advection.

1.13 ADVECTION OF K AND EPSILON

Type :	Logical
Dimension :	1
Mnemo	CONVV(4)
DEFAULT VALUE :	YES
French keyword :	`CONVECTION DE K ET EPSILON`

The k and epsilon advection is taken into account or ignored.

1.14 ADVECTION OF TRACERS

Type :	Logical
Dimension :	1
Mnemo	CONVV(3)
DEFAULT VALUE :	YES
French keyword :	`CONVECTION DES TRACEURS`

The advection of the passive tracer is taken into account or ignored.

1.15 ADVECTION OF U AND V

Type : Logical
Dimension : 1
Mnemo CONVV(1)
DEFAULT VALUE : YES
French keyword : CONVECTION DE U ET V
The advection of U and V is taken into account or ignored.

1.16 AIR PRESSURE

Type : Logical
Dimension : 1
Mnemo ATMOS
DEFAULT VALUE : NO
French keyword : PRESSION ATMOSPHERIQUE
Provided to decide whether the influence of an atmosphere field is taken into account or not.

1.17 ALGAE TRANSPORT MODEL

Type : Logical
Dimension : 1
Mnemo ALGAE
DEFAULT VALUE : NO
French keyword : MODELE DE TRANSPORT DES ALGUES
If yes, the floats or particles will be algae

1.18 ALGAE TYPE

Type : Integer
Dimension : 1
Mnemo ALGTYP
DEFAULT VALUE : 1
French keyword : TYPE DES ALGUES
Algae type. For choice 1 the algae particles will be modeled as spheres, and for the other choices see Gaylord et al. (1994)

1.19 ANTECEDENT MOISTURE CONDITIONS

Type : Integer
Dimension : 1
Mnemo AMC
DEFAULT VALUE : 2
French keyword : CONDITIONS D'HUMIDITE PRECEDENTE
Gives the antecedent moisture conditions before a rainfall event for the SCS CN runoff model. Available options are: 1 : dry antecedent conditions 2 : normal antecedent conditions 3 : wet antecedent conditions This keyword is only usefull for runoff model 1 (SCS CN model)

1.20 ASCII ATMOSPHERIC DATA FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2ATMA)
DEFAULT VALUE :	”
French keyword :	FICHIER ASCII DE DONNEES ATMOSPHERIQUES

Ascii data file containing the atmospheric data varying in time

1.21 ASCII DATABASE FOR TIDE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DBDD)
DEFAULT VALUE :	”
French keyword :	BASE ASCII DE DONNEES DE MAREE

Tide data base of harmonic constituents extracted from the tidal model file. Old name in 6.1 version: TIDE DATA BASE

1.22 BINARY ATMOSPHERIC DATA FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2ATMB)
DEFAULT VALUE :	”
French keyword :	FICHIER BINAIRE DE DONNEES ATMOSPHERIQUES

Binary-coded data file containing the atmospheric data varying in time and space on the mesh

1.23 BINARY ATMOSPHERIC DATA FILE FORMAT

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2ATMB)
DEFAULT VALUE :	’SERAFIN?’
French keyword :	FORMAT DU FICHIER BINAIRE DE DONNEES ATMOSPHERIQUES

Binary atmospheric 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

1.24 BINARY DATA FILE 1

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DBI1)
DEFAULT VALUE :	”
French keyword :	FICHIER DE DONNEES BINAIRE 1

Binary-coded data file made available to the user. The data in this file shall be read on channel 24.

1.25 BINARY DATA FILE 1 FORMAT

Type : String
Dimension : 1
Mnemo ????
DEFAULT VALUE : 'BIN'
French keyword : `FORMAT DU FICHIER DE DONNEES BINAIRE 1`

Geometry file format. Possible values are: - BIN : Standard binary format - SERAFIN : classical single precision format in Telemac; - SERAFIND: classical double precision format in Telemac; - MED : MED format based on HDF5

1.26 BINARY DATA FILE 2

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DBI2)
DEFAULT VALUE : ''
French keyword : `FICHIER DE DONNEES BINAIRE 2`

Binary-coded data file made available to the user. The data in this file shall be read on channel 25.

1.27 BINARY DATA FILE 2 FORMAT

Type : String
Dimension : 1
Mnemo ????
DEFAULT VALUE : 'BIN'
French keyword : `FORMAT DU FICHIER DE DONNEES BINAIRE 2`

Geometry file format. Possible values are: - BIN : Standard binary format - SERAFIN : classical single precision format in Telemac; - SERAFIND: classical double precision format in Telemac; - MED : MED format based on HDF5

1.28 BINARY DATABASE 1 FOR TIDE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DBB1)
DEFAULT VALUE : ''
French keyword : `BASE BINAIRE 1 DE DONNEES DE MAREE`

Binary database 1 extracted from the tidal model file. In the case of the TPXO satellite altimetry model, this file should be for free surface level, for instance h_tpxo7.2

1.29 BINARY DATABASE 2 FOR TIDE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DBB2)
DEFAULT VALUE : ''
French keyword : `BASE BINAIRE 2 DE DONNEES DE MAREE`

Binary database 2 extracted from the tidal model file. In the case of the TPXO satellite altimetry model, this file should be for tidal velocities, for instance u_tpxo7.2

1.30 BINARY RESULTS FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DRBI)
DEFAULT VALUE :	”
French keyword :	FICHIER DE RESULTATS BINAIRE

Additional binary-coded result file made available to the user. The results to be entered into this file shall be written on channel 28.

1.31 BINARY RESULTS FILE FORMAT

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DRBI)
DEFAULT VALUE :	’BIN’
French keyword :	FORMAT DU FICHIER DE RESULTATS BINAIRE

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

1.32 BOTTOM SMOOTHINGS

Type :	Integer
Dimension :	1
Mnemo	LISFOND
DEFAULT VALUE :	0
French keyword :	LISSAGES DU FOND

Number of smoothings on bottom topography. each smoothing is mass conservative. to be used when interpolation of bathymetry on the mesh gives very rough results.

1.33 BOTTOM SURFACES DELWAQ FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DDL5)
DEFAULT VALUE :	”
French keyword :	FICHIER DELWAQ DES SURFACES DU FOND

Results file for coupling with Delwaq

1.34 BOTTOM TOPOGRAPHY FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DFON)
DEFAULT VALUE :	”
French keyword :	FICHIER DES FONDS

Name of the possible file containing the bathymetric data. Where this keyword is used, these bathymetric data shall be used in the computation.

1.35 BOUNDARY CONDITIONS FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DLIM)
DEFAULT VALUE : 'MANDATORY'
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 through colours that are assigned to the boundary nodes.

1.36 BREACH

Type : Logical
Dimension : 1
Mnemo BRECHE
DEFAULT VALUE : NO
French keyword : BRECHE
Take in account some breaches during the computation by modifying the bottom level of the mesh. Brech description is done with the breaches data file.

1.37 BREACHES DATA FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DBRC)
DEFAULT VALUE : ”
French keyword : FICHIER DE DONNEES DES BRECHES
Description of breaches

1.38 C-U PRECONDITIONING

Type : Logical
Dimension : 1
Mnemo PRECCU
DEFAULT VALUE : YES
French keyword : PRECONDITIONNEMENT C-U
Change of variable from H to C in the final linear system

1.39 CHECKING THE MESH

Type : Logical
Dimension : 1
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.

1.40 COEFFICIENT 1 FOR LAW OF TRACERS DEGRADATION

Type : Real
Dimension : 2
Mnemo COEF1TRAC
DEFAULT VALUE : MANDATORY
French keyword : COEFFICIENT 1 DE LA LOI DE DEGRADATION DES TRACEURS
Coefficient 1 of law for tracers decrease

1.41 COEFFICIENT FOR DIFFUSION OF TRACERS

Type : Real
Dimension : 1
Mnemo DIFNU
DEFAULT VALUE : 1.E-6
French keyword : COEFFICIENT DE DIFFUSION DES TRACEURS
Sets the value of the tracer diffusivity.

1.42 COEFFICIENT OF WIND INFLUENCE

Type : Real
Dimension : 1
Mnemo FAIR
DEFAULT VALUE : 0.
French keyword : COEFFICIENT D'INFLUENCE DU VENT
Sets the value of the wind driving coefficient. Refer to principle note.

1.43 COEFFICIENT TO CALIBRATE SEA LEVEL

Type : Real
Dimension : 1
Mnemo MSL
DEFAULT VALUE : 0.
French keyword : COEFFICIENT DE CALAGE DU NIVEAU DE MER
Coefficient to calibrate the sea level

1.44 COEFFICIENT TO CALIBRATE TIDAL RANGE

Type : Real
Dimension : 1
Mnemo CTIDE
DEFAULT VALUE : 1.
French keyword : COEFFICIENT DE CALAGE DU MARNAGE
Coefficient to calibrate the tidal range of tidal wave at tidal open boundary conditions

1.45 COEFFICIENT TO CALIBRATE TIDAL VELOCITIES

Type : Real
Dimension : 1
Mnemo CTIDEV
DEFAULT VALUE : 999999.
French keyword : COEFFICIENT DE CALAGE DES VITESSES DE COURANT
Coefficient to calibrate the tidal velocities of tidal wave at tidal open boundary conditions.

Default value 999999. means that the square root of COEFFICIENT TO CALIBRATE TIDAL RANGE is taken

1.46 COMPATIBLE COMPUTATION OF FLUXES

Type : Logical
Dimension : 1
Mnemo COMFLU
DEFAULT VALUE : NO
French keyword : `CALCUL COMPATIBLE DES FLUX`
FLOWRATES THROUGH CONTROL SECTIONS, COMPUTATION COMPATIBLE WITH THE WEAK FORMULATION OF NO-FLUX BOUNDARY CONDITION

1.47 COMPUTATION CONTINUED

Type : Logical
Dimension : 1
Mnemo DEBU
DEFAULT VALUE : NO
French keyword : `SUITE DE CALCUL`
Determines whether the computation under way is 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, the turbulence model, the friction, to add or remove a tracer... It is also possible to define new boundary conditions.

1.48 CONTINUITY CORRECTION

Type : Logical
Dimension : 1
Mnemo CORCON
DEFAULT VALUE : NO
French keyword : `CORRECTION DE CONTINUITE`
Correction of the velocities on points with a prescribed elevation, where the continuity equation has not been solved

1.49 CONTROL OF LIMITS

Type : Logical
Dimension : 1
Mnemo VERLIM
DEFAULT VALUE : NO
French keyword : `CONTROLE DES LIMITES`
Use with the key-word : limit values, the program is stopped if the limits on u,v,h, or t are trespassed

1.50 CONTROL SECTIONS

Type :	Integer
Dimension :	2
Mnemo	CTRLSC
DEFAULT VALUE :	MANDATORY
French keyword :	SECTIONS DE CONTROLE

Couples of points (global numbers in the mesh) defining sections where the instantaneous and cumulated discharges will be given

1.51 CONVERGENCE STUDY

Type :	Logical
Dimension :	1
Mnemo	CONVERGENCE
DEFAULT VALUE :	0
French keyword :	ETUDE DE CONVERGENCE

Activates a convergence study compared to an analytical solution on a fine mesh

1.52 CORIOLIS

Type :	Logical
Dimension :	1
Mnemo	CORIOL
DEFAULT VALUE :	NO
French keyword :	CORIOLIS

The Coriolis force is taken into account or ignored.

1.53 CORIOLIS COEFFICIENT

Type :	Real
Dimension :	1
Mnemo	FCOR
DEFAULT VALUE :	0.
French keyword :	COEFFICIENT DE CORIOLIS

Sets the value of the Coriolis force coefficient, in cartesian coordinates. This coefficient, denoted FCOR in the code, should be equal to 2 w sin(l)d where w denotes the earth angular speed of rotation and l the latitude. w = 7.27 10-5 rad/sec The Coriolis force components are then: FU = FCOR x V, FV = -FCOR x U In spherical coordinates, the latitudes are known

1.54 COST FUNCTION

Type :	Integer
Dimension :	1
Mnemo	OPTCOST
DEFAULT VALUE :	1
French keyword :	FONCTION COUT

1: computed with h, u , v 2: computed with c, u , v

1.55 COUPLING DIRECTORY

Type : String
Dimension : 1
Mnemo DOSSIER_COUPLAGE
DEFAULT VALUE : ”
French keyword : DOSSIER DE COUPLAGE
Name with full path of the directory where the files will be exchanged for coupling

1.56 COUPLING PERIOD FOR SISYPHE

Type : Integer
Dimension : 1
Mnemo PERCOU
DEFAULT VALUE : 1
French keyword : PERIODE DE COUPLAGE POUR SISYPHE
to avoid coupling at every time-step

1.57 COUPLING PERIOD FOR TOMAWAC

Type : Integer
Dimension : 1
Mnemo PERCOU_WAC
DEFAULT VALUE : 1
French keyword : PERIODE DE COUPLAGE POUR TOMAWAC
to avoid coupling at every time-step

1.58 COUPLING WITH

Type : String
Dimension : 1
Mnemo COUPLING, IN BIEF
DEFAULT VALUE : ”
French keyword : COUPLAGE AVEC
List of codes to be coupled with Telemac-2D SISYPHE : internal coupling with Sisyphe TOMAWAC : internal coupling with Tomawac DELWAQ: will yield results file for Delwaq

1.59 CULVERTS DATA FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DBUS)
DEFAULT VALUE : ”
French keyword : FICHIER DE DONNEES DES BUSES
Description of culverts/tubes/bridges existing in the model

1.60 DEBUGGER

Type : Integer
Dimension : 1
Mnemo DEBUG
DEFAULT VALUE : 0
French keyword : DEBUGGER

If 1, calls of subroutines will be printed in the listing

1.61 DEFAULT EXECUTABLE

Type :	String
Dimension :	1
Mnemo	EXEDEF
DEFAULT VALUE :	'builds|PPP|bin|telemac2dMMMVVV.exe'
French keyword :	EXECUTABLE PAR DEFAUT

Default executable for T2D

1.62 DEFAULT PARALLEL EXECUTABLE

Type :	String
Dimension :	1
Mnemo	EXEDEFPARA
DEFAULT VALUE :	'builds|PPP|bin|telemac2dMMMVVV.exe'
French keyword :	EXECUTABLE PARALLELE PAR DEFAUT

Default parallel executable for T2D

1.63 DEFINITION OF ZONES

Type :	Logical
Dimension :	1
Mnemo	DEFZON
DEFAULT VALUE :	NO
French keyword :	DEFINITION DE ZONES

Triggers the call to def_zones to give a zone number to every point

1.64 DELWAQ PRINTOUT PERIOD

Type :	Integer
Dimension :	1
Mnemo	WAQPRD
DEFAULT VALUE :	1
French keyword :	PERIODE DE SORTIE POUR DELWAQ

Printout period for Delwaq file

1.65 DELWAQ STEERING FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DL11)
DEFAULT VALUE :	"
French keyword :	FICHIER DE COMMANDE DELWAQ

Results file for coupling with Delwaq

1.66 DENSITY EFFECTS

Type : Logical
Dimension : 1
Mnemo ROVAR
DEFAULT VALUE : NO
French keyword : EFFETS DE DENSITE
THE HORIZONTAL GRADIENT OF DENSITY IS TAKEN INTO ACCOUNT THE TRACER IS THEN THE SALINITY

1.67 DENSITY OF ALGAE

Type : Real
Dimension : 1
Mnemo RALGAE
DEFAULT VALUE : 1050.
French keyword : MASSE VOLUMIQUE DES ALGUES
Density of algae in kg/m3

1.68 DEPTH IN FRICTION TERMS

Type : Integer
Dimension : 1
Mnemo HFROT
DEFAULT VALUE : 1
French keyword : HAUTEUR DANS LES TERMES DE FROTTEMENT
1: nodal 2: average

1.69 DESCRIPTION OF LIBRARIES

Type : String
Dimension : 11
Mnemo LINKLIBS
DEFAULT VALUE : 'builds|PPP|lib|telemac2dMMMVVV.LLL;
builds|PPP|lib|sisypheMMMVVV.LLL;
builds|PPP|lib|tomawacMMMVVV.LLL;
builds|PPP|lib|nestorMMMVVV.LLL;
builds|PPP|lib|waqtelMMMVVV.LLL;
builds|PPP|lib|stbtelMMMVVV.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
LIBRARIES description

1.70 DESIRED COURANT NUMBER

Type : Real
Dimension : 1
Mnemo CFLWTD
DEFAULT VALUE : 1.
French keyword : NOMBRE DE COURANT SOUHAITE
Desired Courant number when VARIABLE TIME-STEP is set to YES

1.71 DIAMETER OF ALGAE

Type : Real
Dimension : 1
Mnemo DALGAE
DEFAULT VALUE : 0.1
French keyword : DIAMETRE DES ALGUES
Diametre of algae in m

1.72 DIAMETER OF ROUGHNESS ELEMENTS

Type : Real
Dimension : 1
Mnemo DP
DEFAULT VALUE : 0.006
French keyword : DIAMETRE DES ELEMENTS DE FROTTEMENT
diameter of roughness element

1.73 DICTIONARY

Type : String
Dimension : 1
Mnemo
DEFAULT VALUE : 'telemac2d.dico'
French keyword : DICTIONNAIRE
Key word dictionary.

1.74 DIFFUSION OF TRACERS

Type : Logical
Dimension : 1
Mnemo DIFT
DEFAULT VALUE : YES
French keyword : DIFFUSION DES TRACEURS
The diffusion of the passive tracer is taken into account or ignored.

1.75 DIFFUSION OF VELOCITY

Type : Logical
Dimension : 1
Mnemo DIFVIT
DEFAULT VALUE : YES
French keyword : DIFFUSION DES VITESSES
Makes it possible to decide whether the diffusion of velocity (i.e. viscosity) is taken into account

or not.

1.76 DIFFUSIVITY DELWAQ FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DL10)
DEFAULT VALUE : ”
French keyword : FICHIER DELWAQ DE LA DIFFUSION
Results file for coupling with Delwaq

1.77 DIFFUSIVITY FOR DELWAQ

Type : Logical
Dimension : 1
Mnemo DIFF_DEL
DEFAULT VALUE : NO
French keyword : DIFFUSION POUR DELWAQ
Triggers output of diffusion for Delwaq

1.78 DISCRETIZATIONS IN SPACE

Type : Integer
Dimension : 4
Mnemo DISCRE
DEFAULT VALUE : 11;11;11;11
French keyword : DISCRETISATIONS EN ESPACE
Choice of space discretisation for every variable These coefficients are applied respectively to 1) U and V 2) H 3) T 4) K and EPSILON (NOT IMPLEMENTED) 11: linear 12: quasi-bubble 13: quadratic

1.79 DISSIPATION COEFFICIENT FOR SECONDARY CURRENTS

Type : Real
Dimension : 1
Mnemo SEC_DS
DEFAULT VALUE : 5.E-1
French keyword : COEFFICIENT DE DISSIPATION POUR COURANTS SECONDAIRES
Coefficient of dissipation term of Omega

1.80 DROGUES FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DFLO)
DEFAULT VALUE : ”
French keyword : FICHIER DES FLOTTEURS
Results file with positions of drogues

1.81 DURATION

Type : Real
Dimension : 1
Mnemo DUREE
DEFAULT VALUE : 0.
French keyword : DUREE DU CALCUL
Duration of simulation. May be used instead of the parameter NUMBER OF TIME STEPS. The nearest integer to (duration/time step) is taken. If NUMBER OF TIME STEPS is also given, the greater value is taken

1.82 DURATION OF RAIN OR EVAPORATION IN HOURS

Type : Real
Dimension : 1
Mnemo RAIN_HDUR
DEFAULT VALUE : 1.E6
French keyword : DUREE DE LA PLUIE OU EVAPORATION EN HEURES
Gives the duration of the rain in hour, default value is infinite

1.83 ELEMENTS MASKED BY USER

Type : Logical
Dimension : 1
Mnemo MSKUSE
DEFAULT VALUE : NO
French keyword : ELEMENTS MASQUES PAR L'UTILISATEUR
IF YES REWRITE SUBROUTINE MASKOB

1.84 EQUATIONS

Type : String
Dimension : 1
Mnemo EQUA
DEFAULT VALUE : 'SAINT-VENANT FE'
French keyword : EQUATIONS
CHOICE OF EQUATIONS TO SOLVE : SAINT-VENANT FINITE ELEMENTS, SAINT-VENANT FINITE VOLUMES OR BOUSSINESQ 20 CHARACTERS

1.85 EXCHANGE AREAS DELWAQ FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DDL2)
DEFAULT VALUE : ''
French keyword : FICHIER DELWAQ DES SURFACES DE FLUX
Results file for coupling with Delwaq

1.86 EXCHANGES BETWEEN NODES DELWAQ FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DDL6)
DEFAULT VALUE : ”
French keyword : FICHIER DELWAQ DES ECHANGES ENTRE NOEUDS
Results file for coupling with Delwaq

1.87 FINITE ELEMENT ASSEMBLY

Type : Integer
Dimension : 1
Mnemo MODASS
DEFAULT VALUE : 1
French keyword : ASSEMBLAGE EN ELEMENTS FINIS
1: normal 2: with I8 integers 3:compensation

1.88 FINITE VOLUME SCHEME

Type : Integer
Dimension : 1
Mnemo OPTVF
DEFAULT VALUE : 1
French keyword : SCHEMA EN VOLUMES FINIS
0: Roe scheme 1: kinetic order 1 2: kinetic order 2 3 : Zokagoa scheme 4 : Tchamen scheme 5 : HLLC order 1 6 : WAF order 2

1.89 FLUXLINE

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

1.90 FLUXLINE INPUT FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DFLX)
DEFAULT VALUE : ”
French keyword : FICHIER DE FLUXLINE
Name of the Fluxline file, with data on cross-sections

1.91 FORMATTED DATA FILE 1

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DFO1)
DEFAULT VALUE : ”
French keyword : FICHIER DE DONNEES FORMATE 1

Formatted data file made available to the user. The data in this file shall be read on channel 26.

1.92 FORMATTED DATA FILE 2

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DFO2)
DEFAULT VALUE : ”
French keyword : FICHIER DE DONNEES FORMATE 2
Formatted data file made available to the user. The data in this file shall be read on channel 27.

1.93 FORMATTED RESULTS FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DRFO)
DEFAULT VALUE : ”
French keyword : FICHIER DE RESULTATS FORMATE
Formatted file of results made available to the user. The results to be entered into this file shall be written on channel 29.

1.94 FORTRAN FILE

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

1.95 FOURIER ANALYSIS PERIODS

Type : Real
Dimension : 2
Mnemo PERIAF
DEFAULT VALUE : MANDATORY
French keyword : PERIODES D’ANALYSE DE FOURIER
List of periods to be analysed

1.96 FREE SURFACE GRADIENT COMPATIBILITY

Type : Real
Dimension : 1
Mnemo TETAZCOMP
DEFAULT VALUE : 1.
French keyword : COMPATIBILITE DU GRADIENT DE SURFACE LIBRE
Values less than 1 suppress spurious oscillations

1.97 FRICTION COEFFICIENT

Type : Real
Dimension : 1
Mnemo FFON
DEFAULT VALUE : 50.
French keyword : COEFFICIENT DE FROTTEMENT
Sets the value of the friction coefficient for the selected formulation. It is noteworthy that the meaning of this figure changes according to the selected formula (Chezy, Strickler, etc.) : 1 : linear coefficient 2 : Chezy coefficient 3 : Strickler coefficient 4 : Manning coefficient 5 : Nikuradse grain size

1.98 FRICTION DATA

Type : Logical
Dimension : 1
Mnemo FRICTB
DEFAULT VALUE : NO
French keyword : DONNEES POUR LE FROTTEMENT
Friction law defined by area

1.99 FRICTION DATA FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DCOF)
DEFAULT VALUE : ”
French keyword : FICHIER DE DONNEES POUR LE FROTTEMENT
friction data file

1.100 GEOGRAPHIC SYSTEM

Type : Integer
Dimension : 1
Mnemo GEOSYST
DEFAULT VALUE : -1
French keyword : SYSTEME GEOGRAPHIQUE
Geographic coordinates system in which the numerical model is built. Indicate the corresponding zone with the keyword. The possible choices are:

- 0: defined by the user,
- 1: WGS84 longitude/latitude in real degrees,
- 2: WGS84 Northern UTM,
- 3: WGS84 Southern UTM,
- 4: Lambert,
- 5: Mercator projection.

1.101 GEOMETRY FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DGEO)
DEFAULT VALUE :	'MANDATORY'
French keyword :	FICHIER DE GEOMETRIE

Name of the file containing the mesh. This file may also contain the topography and the friction coefficients.

1.102 GEOMETRY FILE FORMAT

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DGEO)
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

1.103 GLOBAL NUMBER OF THE POINT TO CALIBRATE HIGH WATER

Type :	Integer
Dimension :	1
Mnemo	ICALHWG
DEFAULT VALUE :	0
French keyword :	NUMERO GLOBAL DU POINT POUR CALER LA PLEINE MER

Global number of the point with respect to which the tidal constituents have their phase shifted to start the calculation with a high water (for schematic tides only). Only harmonic constants databases like TPXO are concerned.

1.104 GLOBAL NUMBERS OF SOURCE NODES

Type :	Integer
Dimension :	2
Mnemo	ISCE
DEFAULT VALUE :	MANDATORY
French keyword :	NUMEROS GLOBAUX DES NOEUDS DES SOURCES

Global numbers of nodes in the mesh that correspond to source point locations

1.105 GRAPHIC PRINTOUT PERIOD

Type :	Integer
Dimension :	1
Mnemo	LEOPRD
DEFAULT VALUE :	1
French keyword :	PERIODE POUR LES SORTIES GRAPHIQUES

Determines, in number of time steps, the printout period for the VARIABLES FOR GRAPHIC PRINTOUTS in the RESULTS FILE.

1.106 GRAVITY ACCELERATION

Type : Real
Dimension : 1
Mnemo GRAV
DEFAULT VALUE : 9.81
French keyword : ACCELERATION DE LA PESANTEUR
Set the value of the acceleration due to gravity.

1.107 H CLIPPING

Type : Logical
Dimension : 1
Mnemo CLIPH
DEFAULT VALUE : NO
French keyword : CLIPPING DE H
Determines whether limiting the water depth H by a lower value desirable or not. (for instance in the case of tidal flats) This key-word may have an influence on mass conservation since the truncation of depth is equivalent to adding mass.

1.108 HARMONIC CONSTANTS FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DHAR)
DEFAULT VALUE : ”
French keyword : FICHIER DES CONSTANTES HARMONIQUES
Harmonic constants extracted from the tidalmodel file

1.109 ICE PROCESSES

Type : Integer
Dimension : 1
Mnemo ICEPROCESS
DEFAULT VALUE : 1
French keyword : PROCESSUS LIES AUX GLACES
provides the ice process number with the number being defined o basis of a multiplication of primary numbers (2, 3, 5, 7, 11, 13, ...). For instance, 14 (2x7) activate processes 2 and 7. Exception is made for if the number is 1, there will be no ice processes included; if the numb 0, all processes are included, as follows: 2- THERMIMAL BUDGET, 3-..

1.110 IDENTIFICATION METHOD

Type : Integer
Dimension : 1
Mnemo OPTID
DEFAULT VALUE : 1
French keyword : METHODE D’IDENTIFICATION
0 : list of tests 1: gradient 2 : conj. gradient 3 : lagrange interp.

1.111 IMPLICITATION COEFFICIENT OF TRACERS

Type :	Real
Dimension :	1
Mnemo	TETAT
DEFAULT VALUE :	0.6
French keyword :	COEFFICIENT D'IMPLICITATION DES TRACEURS

Sets the value of the implicitation coefficient for the tracer

1.112 IMPLICITATION FOR DEPTH

Type :	Real
Dimension :	1
Mnemo	TETAC
DEFAULT VALUE :	0.55
French keyword :	IMPLICITATION POUR LA HAUTEUR

Sets the value of the implicitation coefficient for C (the celerity of waves) in the propagation step (refer to principle note). Values below 0.5 result in an unstable scheme.

1.113 IMPLICITATION FOR DIFFUSION OF VELOCITY

Type :	Real
Dimension :	1
Mnemo	TETAD
DEFAULT VALUE :	1.
French keyword :	IMPLICITATION POUR LA DIFFUSION DES VITESSES

Sets the value of the implicitation coefficient for the diffusion of velocity

1.114 IMPLICITATION FOR VELOCITY

Type :	Real
Dimension :	1
Mnemo	TETAU
DEFAULT VALUE :	0.55
French keyword :	IMPLICITATION POUR LA VITESSE

Sets the value of the implicitation coefficient for velocity in the propagation step (refer to principle note). Values below 0.5 result in an unstable condition.

1.115 INFORMATION ABOUT K-EPSILON MODEL

Type :	Logical
Dimension :	1
Mnemo	INFOKE
DEFAULT VALUE :	YES
French keyword :	INFORMATIONS SUR LE MODELE K-EPSILON

Gives the number of iterations of the solver in the diffusion and source terms step of the k-epsilon model.

1.116 INFORMATION ABOUT SOLVER

Type : Logical
Dimension : 1
Mnemo INFOGR
DEFAULT VALUE : YES
French keyword : INFORMATIONS SUR LE SOLVEUR
if YES, prints the number of iterations that have been necessar to get the solution of the linear system.

1.117 INFORMATION ABOUT SPALART-ALLMARAS MODEL

Type : Logical
Dimension : 1
Mnemo INFONU
DEFAULT VALUE : YES
French keyword : INFORMATION SUR LE MODELE SPALART-ALLMARAS
if yes, informations about solver of spalart-allmaras model are printed to the listing

1.118 INITIAL CONDITIONS

Type : String
Dimension : 1
Mnemo CDTINI
DEFAULT VALUE : 'ZERO ELEVATION'
French keyword : CONDITIONS INITIALES
Makes it possible to define the initial conditions with the water depth. The possible values are as follows: - ZERO ELEVATION-. Initializes the free surface elevation to 0. The initial water depths are then found by computing the difference between the free surface and the bottom. - CONSTANT ELEVATION-. Initializes the water elevation to the value given by the keyword -INITIAL ELEVATION-. The initial water depths are computed as in the previous case. - ZERO DEPTH-. Initializes the water depths to 0. - CONSTANT DEPTH-. Initializes the water depths to the value given by the key-word -INITIAL DEPTH-. - SPECIAL-. The initial conditions with the water depth should be stated in the CONDIN subroutine. - TPXO SATELITE ALTIMETRY. The initial conditions on the free surface and velocities are established from the TPXO satellite program data, the harmonic constituents of which are stored in the TIDE DATA BASE file.

1.119 INITIAL DEPTH

Type : Real
Dimension : 1
Mnemo HAUTINI
DEFAULT VALUE : 0.
French keyword : HAUTEUR INITIALE
Value to be used along with the option: INITIAL CONDITIONS -CONSTANT DEPTH-

1.120 INITIAL ELEVATION

Type : Real
Dimension : 1
Mnemo COTINI
DEFAULT VALUE : 0.
French keyword : COTE INITIALE

Value to be used with the option : INITIAL CONDITIONS -CONSTANT ELEVATION

1.121 INITIAL GUESS FOR H

Type : Integer
Dimension : 1
Mnemo IORDRH
DEFAULT VALUE : 1
French keyword : ORDRE DU TIR INITIAL POUR H

Initial guess for the solver in the propagation step. Makes it possible to modify the initial value of C, upon each iteration in the propagation step, by using the ultimate values this variable had in the earlier time steps. Thus, the convergence can be speeded up when the system is being solved. 3 options are available: 0: DH = 0 1: DH = DHn (ultimate DH value in the next previous time step) 2: DH = 2DHn - DHn-1 (extrapolation)

1.122 INITIAL GUESS FOR U

Type : Integer
Dimension : 1
Mnemo IORDRU
DEFAULT VALUE : 1
French keyword : ORDRE DU TIR INITIAL POUR U

Initial guess for the solver in the propagation step. Makes it possible to modify the initial value of U, upon each iteration in the propagation step, by using the ultimate values this variable had in the earlier time steps. Thus, the convergence can be speeded up when the system is being solved. 3 options are available: 0 : U = 0 1 : U = U(n) 2 : U = 2 U(n)- U(n-1) (extrapolation)

1.123 INITIAL TIME SET TO ZERO

Type : Logical
Dimension : 1
Mnemo RAZTIM
DEFAULT VALUE : NO
French keyword : REMISE A ZERO DU TEMPS

Initial time set to zero in case of restart

1.124 INITIAL VALUES OF TRACERS

Type : Real
Dimension : 2
Mnemo TRAC0
DEFAULT VALUE : 0.;0.
French keyword : VALEURS INITIALES DES TRACEURS

Sets the initial value of the tracer.

1.125 LAMBERT 93 CONVERSION FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DL93)
DEFAULT VALUE : ”
French keyword : FICHIER DE CONVERSION LAMBERT 93

Name of file GR3DF97A, conversion grid for Lambert 93.

1.126 LANGUAGE

Type : Integer
Dimension : 1
Mnemo LNG
DEFAULT VALUE : 2
French keyword : LANGUE
1: FRENCH 2: ENGLISH

1.127 LATITUDE OF ORIGIN POINT

Type : Real
Dimension : 1
Mnemo LAMBD0
DEFAULT VALUE : 48.
French keyword : LATITUDE DU POINT ORIGINE
Determines the origin used for computing latitudes when a computation is made in spherical coordinates. this latitude is in particular used to compute the Coriolis force. In cartesian coordinates, Coriolis coefficient is considered constant.

1.128 LAW OF BOTTOM FRICTION

Type : Integer
Dimension : 1
Mnemo KFROT
DEFAULT VALUE : MANDATORY
French keyword : LOI DE FROTTEMENT SUR LE FOND
Selects the type of formulation used for the bottom friction. The possible laws are as follows (refer to the Principle note): 0: no friction against bottom, 1: Haaland"s formula 2: CHEZY"s formula 3: STRICKLER"s formula 4: MANNING"s formula 5: NIKURADSE"s formula

1.129 LAW OF FRICTION ON LATERAL BOUNDARIES

Type : Integer
Dimension : 1
Mnemo KFROTL
DEFAULT VALUE : 0
French keyword : LOI DE FROTTEMENT SUR LES PAROIS LATERALES
Selects the type of formulation used for the friction on lateral boundaries. The possible laws are as follows (refer to the Principle note): 0: no friction 1: linear 2: Chezy 3: Strickler 4: Manning 5: NIKURADSE"s formula 6 : law log 7 : Colebrook-White

1.130 LAW OF TRACERS DEGRADATION

Type : Integer
Dimension : 2
Mnemo LOITRAC
DEFAULT VALUE : 0;0
French keyword : LOI DE DEGRADATION DES TRACEURS
Take in account a law for tracers decrease

1.131 LIMIT VALUES

Type :	Real
Dimension :	8
Mnemo	
DEFAULT VALUE :	-1000.;9000.;-1000.;1000.;-1000.;1000.;-1000.;1000.
French keyword :	VALEURS LIMITES

To be used with the key-word CONTROL OF LIMITS min and max acceptable values for H,U,V et T in the following order : min(H) max(H) min(U) max(U) min(V) max(V) min(T) max(T)

1.132 LINEARIZED PROPAGATION

Type :	Logical
Dimension :	1
Mnemo	PROLIN
DEFAULT VALUE :	NO
French keyword :	PROPAGATION LINEARISEE

Provided for linearizing the propagation step, e.g. when performing test-cases for which an analytical solution in the linearized case is available.

1.133 LIQUID BOUNDARIES FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DIMP)
DEFAULT VALUE :	”
French keyword :	FICHIER DES FRONTIERES LIQUIDES

Variations in time of boundary conditions. Data of this file are read on channel 12.

1.134 LIST OF FILES

Type : String
Dimension : 47
Mnemo
DEFAULT VALUE : 'STEERING FILE;
DICTIONARY;
FORTRAN FILE;
GEOMETRY FILE;
BOUNDARY CONDITIONS FILE;
RESULTS FILE;
PREVIOUS COMPUTATION FILE;
BOTTOM TOPOGRAPHY FILE;
BINARY DATA FILE 1;
BINARY DATA FILE 2;
FORMATTED DATA FILE 1;
FORMATTED DATA FILE 2;
BINARY RESULTS FILE;
FORMATTED RESULTS FILE;
REFERENCE FILE;
LIQUID BOUNDARIES FILE;
FRICTION DATA FILE;
VOLUMES DELWAQ FILE;
EXCHANGE AREAS DELWAQ FILE;
VERTICAL FLUXES DELWAQ FILE;
SALINITY DELWAQ FILE;
VELOCITY DELWAQ FILE;
DIFFUSIVITY DELWAQ FILE;
BOTTOM SURFACES DELWAQ FILE;
EXCHANGES BETWEEN NODES DELWAQ FILE;
NODES DISTANCES DELWAQ FILE;
TEMPERATURE DELWAQ FILE;
DELWAQ STEERING FILE;
STAGE-DISCHARGE CURVES FILE;
SOURCES FILE;
SECTIONS INPUT FILE;
SECTIONS OUTPUT FILE;
OIL SPILL STEERING FILE;
HARMONIC CONSTANTS FILE;
TIDAL MODEL FILE;
ASCII DATABASE FOR TIDE;
BINARY DATABASE 1 FOR TIDE;
BINARY DATABASE 2 FOR TIDE;
WEIRS DATA FILE;
SIPHONS DATA FILE;
CULVERTS DATA FILE;
BREACHES DATA FILE;
DROGUES FILE;
ZONES FILE;
FLUXLINE INPUT FILE;
ASCII ATMOSPHERIC DATA FILE;
BINARY ATMOSPHERIC DATA FILE'
French keyword : LISTE DES FICHIERS

File names of the used files

1.135 LIST OF POINTS

Type : Integer
Dimension : 2
Mnemo LIST_PTS
DEFAULT VALUE : MANDATORY
French keyword : LISTE DE POINTS
List of remarkable points for printouts

1.136 LISTING FOR PRINTOUT PERIOD

Type : Integer
Dimension : 1
Mnemo LISPRD
DEFAULT VALUE : 1
French keyword : PERIODE POUR LES SORTIES LISTING
Determines, in number of time steps, the printout period of the VARIABLES TO BE PRINTED The results are systematically printed out on the listing file (file CAS.SORTIE at the workstation).

1.137 LISTING PRINTOUT

Type : Logical
Dimension : 1
Mnemo LISTIN
DEFAULT VALUE : YES
French keyword : SORTIE LISTING
Result printout on hard copy. When NO is selected, the listing only includes the heading and the phrase "NORMAL END OF PROGRAM" In addition, the options MASS BALANCE and VALIDATION are inhibited. Not recommended for use.

1.138 LISTING PRINTOUT PERIOD

Type : Integer
Dimension : 1
Mnemo LISPRD
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 systematically printed out on the listing file (file CAS.SORTIE at the workstation).

1.139 LOCAL NUMBER OF THE POINT TO CALIBRATE HIGH WATER

Type : Integer
Dimension : 1
Mnemo ICALHWB
DEFAULT VALUE : 0
French keyword : NUMERO LOCAL DU POINT POUR CALER LA PLEINE MER
Local number between 1 and the number of tidal boundary points (of the HARMONIC CON-

STANTS FILE) where the tidal boundary conditions are computed with JMJ, NEA, FES, PREVIMER databases (except TPXO-type databases). The tidal constituents have their phase shifted with respect to this point to start the simulation with a high water (for schematic tides only).

1.140 LONGITUDE OF ORIGIN POINT

Type : Real
Dimension : 1
Mnemo PHI0
DEFAULT VALUE : 0.
French keyword : `LONGITUDE DU POINT ORIGINE`
Give the value of the longitude of the origin point of the model, when taking into account of the tide generator force.

1.141 MANNING DEFAULT VALUE FOR COLEBROOK-WHITE LAW

Type : Real
Dimension : 1
Mnemo NDEF
DEFAULT VALUE : 0.02
French keyword : `VALEUR PAR DEFAUT DU MANNING POUR LA LOI DE COLEBROOK-WHITE`
Manning default value for the friction law of Colebrook-White (law number 7)

1.142 MASS-BALANCE

Type : Logical
Dimension : 1
Mnemo BILMAS
DEFAULT VALUE : NO
French keyword : `BILAN DE MASSE`
Determines whether a check of the mass-balance over the domain is mader or not. This procedures computes the following at each time step: the domain inflows and outflows, the overall flow across all the boundaries, the relative error in the mass for that time step. The relative error in the mass over the whole computation can be found at the end of the listing.

1.143 MASS-LUMPING FOR WEAK CHARACTERISTICS

Type : Real
Dimension : 1
Mnemo AGGLOW
DEFAULT VALUE : 0.
French keyword : `MASS-LUMPING POUR LES CARACTERISTIQUES FAIBLES`
To be applied to the mass matrix

1.144 MASS-LUMPING ON H

Type : Real
Dimension : 1
Mnemo AGGLOC
DEFAULT VALUE : 0.
French keyword : `MASS-LUMPING SUR H`

TELEMAC provides an opportunity to carry out mass-lumping either on C,H or on the velocity. This is equivalent to bringing the matrices AM1 (h) or AM2 (U) and AM3 (V) wholly or partly, back onto their diagonal. Thanks to that technique, the code can be speeded up to a quite significant extent and it can also be made much more stable. The resulting solutions, however, become artificially smoothed. This parameter sets the extent of mass-lumping that is performed on h.

1.145 MASS-LUMPING ON TRACERS

Type : Real
Dimension : 1
Mnemo AGGLOT
DEFAULT VALUE : 0.
French keyword : `MASS-LUMPING SUR LES TRACEURS`

Sets the amount of mass-lumping that is performed on the tracer.

1.146 MASS-LUMPING ON VELOCITY

Type : Real
Dimension : 1
Mnemo AGGLOU
DEFAULT VALUE : 0.
French keyword : `MASS-LUMPING SUR LA VITESSE`

Sets the amount of mass-lumping that is performed on the velocity.

1.147 MATRIX STORAGE

Type : Integer
Dimension : 1
Mnemo OPTASS
DEFAULT VALUE : 3
French keyword : `STOCKAGE DES MATRICES`

1 : classical EBE 3 : Edge-based storage

1.148 MATRIX-VECTOR PRODUCT

Type : Integer
Dimension : 1
Mnemo PRODUC
DEFAULT VALUE : 1
French keyword : `PRODUIT MATRICE-VECTEUR`

1 : classic 2 : frontal beware, with option 2, a special numbering of points is required

1.149 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

1.150 MAXIMUM NUMBER OF FRICTION DOMAINS

Type : Integer
Dimension : 1
Mnemo NZONMX
DEFAULT VALUE : 10
French keyword : NOMBRE MAXIMUM DE DOMAINES DE FROTTEMENT
maximal number of zones defined for the friction. Could be increased if needed

1.151 MAXIMUM NUMBER OF ITERATIONS FOR ADVECTION SCHEMES

Type : Integer
Dimension : 1
Mnemo MAXADV
DEFAULT VALUE : 10
French keyword : MAXIMUM D'ITERATIONS POUR LES SCHEMAS DE CONVECTION
Only for schemes 13 and 14

1.152 MAXIMUM NUMBER OF ITERATIONS FOR DIFFUSION OF TRACERS

Type : Integer
Dimension : 1
Mnemo SLVTRA(ITRAC)
DEFAULT VALUE : 60
French keyword : MAXIMUM D'ITERATIONS POUR LA DIFFUSION DES TRACEURS
Limits the number of solver iterations at each time step for the diffusion of tracer.

1.153 MAXIMUM NUMBER OF ITERATIONS FOR IDENTIFICATION

Type : Integer
Dimension : 1
Mnemo MAXEST
DEFAULT VALUE : 20
French keyword : MAXIMUM D'ITERATIONS POUR L'IDENTIFICATION
every iteration implies at least a direct and an adjoint computation

1.154 MAXIMUM NUMBER OF ITERATIONS FOR K AND EPSILON

Type : Integer
Dimension : 1
Mnemo NKEMAX
DEFAULT VALUE : 50
French keyword : MAXIMUM D'ITERATIONS POUR K ET EPSILON
Sets the maximum number of iterations that are acceptable when solving the diffusion source-terms step of the k-epsilon model.

1.155 MAXIMUM NUMBER OF ITERATIONS FOR SOLVER

Type : Integer
Dimension : 1
Mnemo NITMAX
DEFAULT VALUE : 100
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: a maximum number of 40 iterations per time step seems to be reasonable.

1.156 MAXIMUM NUMBER OF SOURCES

Type : Integer
Dimension : 1
Mnemo MAXSCE
DEFAULT VALUE : 20
French keyword : `NOMBRE MAXIMUM DE SOURCES`

maximal number of punctual sources in the mesh. Used for dimensioning arrays. Can be increased if needed

1.157 MAXIMUM NUMBER OF TRACERS

Type : Integer
Dimension : 1
Mnemo MAXTRA
DEFAULT VALUE : 20
French keyword : `NOMBRE MAXIMUM DE TRACEURS`

maximal number of tracers. Used for dimensioning arrays. Can be increased if needed

1.158 MEAN DEPTH FOR LINEARIZATION

Type : Real
Dimension : 1
Mnemo HAULIN
DEFAULT VALUE : 0.
French keyword : `PROFONDEUR MOYENNE POUR LA LINEARISATION`

Sets the water depth about which the linearization is made when the LINEARIZED PROPAGATION OPTION is selected.

1.159 MEAN TEMPERATURE

Type : Real
Dimension : 1
Mnemo TREF
DEFAULT VALUE : 20.
French keyword : `TEMPERATURE MOYENNE`

REFERENCE TEMPERATURE FOR DENSITY EFFECTS TO BE USED WITH THE KEYWORD "DENSITY EFFECTS"

1.160 MINIMUM VALUE OF DEPTH

Type : Real
Dimension : 1
Mnemo HMIN
DEFAULT VALUE : 0.
French keyword : `VALEUR MINIMUM DE H`

Sets the minimum H value when option H CLIPPING is implemented. Not fully implemented.

1.161 MINOR CONSTITUENTS INFERENCE

Type : Logical
Dimension : 1
Mnemo INTMICON
DEFAULT VALUE : NO
French keyword : INTERPOLATION DE COMPOSANTES MINEURES

For TPXO tidal data base only. Inference of minor constituents from the one read in input files linked to keywords BINARY DATABASE 1 FOR TIDE and BINARY DATABASE 2 FOR TIDE

1.162 NAMES OF CLANDESTINE VARIABLES

Type : String
Dimension : 2
Mnemo VARCLA
DEFAULT VALUE : 'MANDATORY'
French keyword : NOMS DES VARIABLES CLANDESTINES

Names of variables that are not used by TELEMAC, but should be preserved when it is being run. This keyword may be used, for instance when it if TELEMAC is coupled with another code. Thus, the clandestine variables belong to the other code and are given back in the results file.

1.163 NAMES OF POINTS

Type : String
Dimension : 2
Mnemo NAME_PTS
DEFAULT VALUE : 'MANDATORY'
French keyword : NOMS DES POINTS

Names of remarkable points for printouts

1.164 NAMES OF PRIVATE VARIABLES

Type : String
Dimension : 2
Mnemo NAMES_PRIVE
DEFAULT VALUE : 'MANDATORY'
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

1.165 NAMES OF TRACERS

Type : String
Dimension : 2
Mnemo NAMETRAC
DEFAULT VALUE : 'MANDATORY'
French keyword : NOMS DES TRACEURS

Name of tracers in 32 characters, 16 for the name, 16 for the unit.

1.166 NEWMARK TIME INTEGRATION COEFFICIENT

Type : Real
Dimension : 1
Mnemo GAMMA
DEFAULT VALUE : 1.
French keyword : COEFFICIENT D'INTEGRATION EN TEMPS DE NEWMARK
1. : Euler explicit 0.5 : order 2 in time

1.167 NODES DISTANCES DELWAQ FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DDL7)
DEFAULT VALUE : ”
French keyword : FICHIER DELWAQ DES DISTANCES ENTRE NOEUDS
Results file for coupling with Delwaq

1.168 NON-DIMENSIONAL DISPERSION COEFFICIENTS

Type : Real
Dimension : 2
Mnemo ELDER
DEFAULT VALUE : 6.;0.6
French keyword : COEFFICIENTS ADIMENSIONNELS DE DISPERSION
Longitudinal and transversal coefficients in elder s formula. Used only with turbulence model number 2

1.169 NON-SUBMERGED VEGETATION FRICTION

Type : Logical
Dimension : 1
Mnemo LINDNER
DEFAULT VALUE : NO
French keyword : FROTTEMENT POUR LA VEGETATION NON SUBMERGEE
friction calculation of the non-submerged vegetation

1.170 NORTH

Type : Real
Dimension : 1
Mnemo NORD
DEFAULT VALUE : 0.
French keyword : NORD
Angle of the North with the y axis, in degrees. 10.5 means 10 degrees and 30 minutes.

1.171 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

1.172 NUMBER OF CULVERTS

Type : Integer
Dimension : 1
Mnemo NBUSE
DEFAULT VALUE : 0
French keyword : NOMBRE DE BUSES

Number of culverts, tubes or bridges treated as source terms. They must be described as sources in the domain and their features are given in the culverts data file (see written documentation)

1.173 NUMBER OF DROGUES

Type : Integer
Dimension : 1
Mnemo NFLOT_MAX
DEFAULT VALUE : 0
French keyword : NOMBRE DE FLOTTEURS

Number of drogues in the computation. The user must then fill the subroutine FLOT specifying the coordinates of the starting points, their departure and arrival times. The trajectory of drogues is recorded in the BINARY RESULTS FILE that must be given in the steering file

1.174 NUMBER OF FIRST TIME STEP FOR GRAPHIC PRINTOUTS

Type : Integer
Dimension : 1
Mnemo PTINIG
DEFAULT VALUE : 0
French keyword : NUMERO DU PREMIER PAS DE TEMPS POUR LES SORTIES GRAPHIQUES

Determines the number of time steps after which the results are first written into the RESULTS FILE.

1.175 NUMBER OF FIRST TIME STEP FOR LISTING PRINTOUTS

Type : Integer
Dimension : 1
Mnemo PTINIL
DEFAULT VALUE : 0
French keyword : NUMERO DU PREMIER PAS DE TEMPS POUR LES SORTIES LISTING

Determines the number of time steps after which the results are first written into the listing.

1.176 NUMBER OF GAUSS POINTS FOR WEAK CHARACTERISTICS

Type : Integer
Dimension : 1
Mnemo NGAUSS
DEFAULT VALUE : 3
French keyword : NOMBRE DE POINTS DE GAUSS POUR LES CARACTERISTIQUES FAIBLES

See release notes 6.3

1.177 NUMBER OF LAGRANGIAN DRIFTS

Type : Integer
Dimension : 1
Mnemo NFLAG
DEFAULT VALUE : 0
French keyword : NOMBRE DE DERIVES LAGRANGIENNES
Provided for performing several computations of lagrangian drifts starting at different times. Add A and G in the VARIABLES FOR GRAPHIC PRINTOUTS key-word

1.178 NUMBER OF PRIVATE ARRAYS

Type : Integer
Dimension : 1
Mnemo NPRIV
DEFAULT VALUE : 0
French keyword : NOMBRE DE TABLEAUX PRIVES
Number of arrays for own user programming

1.179 NUMBER OF SIPHONS

Type : Integer
Dimension : 1
Mnemo NSIPH
DEFAULT VALUE : 0
French keyword : NOMBRE DE SIPHONS
Number of siphons treated as source terms. They must be described as sources in the domain and their features are given in the culvert data file (see written documentation)

1.180 NUMBER OF SUB-ITERATIONS FOR NON-LINEARITIES

Type : Integer
Dimension : 1
Mnemo NSOUSI
DEFAULT VALUE : 1
French keyword : NOMBRE DE SOUS-ITERATIONS POUR LES NON-LINEARITES
Used for updating, within one time step, the advection and propagation field. upon the first sub-iteration, these fields are given by C and the velocity field in the previous time step. At subsequent iterations, the results of the previous sub-iteration is used to update the advection and propagation field. The non-linearities can be taken into account through this technique.

1.181 NUMBER OF SUB-STEPS OF DISTRIBUTIVE SCHEMES

Type : Integer
Dimension : 1
Mnemo NSP_DIST
DEFAULT VALUE : 1
French keyword : NOMBRE DE SOUS-PAS DES SCHEMAS DISTRIBUTIFS
Only for implicit scheme with predictor-corrector

1.182 NUMBER OF TIME STEPS

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

Specifies the number of time steps performed when running the code.

1.183 NUMBER OF TRACERS

Type :	Integer
Dimension :	1
Mnemo	NTRAC
DEFAULT VALUE :	0
French keyword :	NOMBRE DE TRACEURS

Defines the number of tracers

1.184 NUMBER OF WEIRS

Type :	Integer
Dimension :	1
Mnemo	NWEIRS
DEFAULT VALUE :	0
French keyword :	NOMBRE DE SEUILS

Number of weirs that will be treated by boundary conditions. They must be described as boundaries of the domain and their features are given in the weir data file (see written documentation)

1.185 OIL SPILL MODEL

Type :	Logical
Dimension :	1
Mnemo	SPILL_MODEL
DEFAULT VALUE :	NO
French keyword :	MODELE DE NAPPES D'HYDROCARBURES

WILL TRIGGER THE OIL SPILL MODEL, IN THIS CASE THE MIGRHYCAR STEERING FILE IS NEEDED

1.186 OIL SPILL STEERING FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DMIG)
DEFAULT VALUE :	”
French keyword :	FICHIER DE COMMANDES HYDROCARBURES

Contains data for the oil spill model

1.187 OPTION FOR CHARACTERISTICS

Type : Integer
Dimension : 1
Mnemo OPTCHA
DEFAULT VALUE : 1
French keyword : OPTION POUR LES CARACTERISTIQUES
1: strong form 2: weak form

1.188 OPTION FOR CULVERTS

Type : Integer
Dimension : 1
Mnemo OPTBUSE
DEFAULT VALUE : 1
French keyword : OPTION POUR LES BUSES
Option for the treatment of culverts. There are two options in Telemac

1.189 OPTION FOR INITIAL ABSTRACTION RATIO

Type : Integer
Dimension : 1
Mnemo IASCNOPT
DEFAULT VALUE : 1
French keyword : OPTION POUR RATIO DES PERTES INITIALES
Gives the ratio for Initial Abstraction to Maximal Potential Retention S for the SCS CN runoff model. Available options are: 1 : IA/S = 0.2 (standard method) 2 : IA/S = 0.05 (revised method, see Woodward, Hawkins et al. 2003. Wi this option the CN values given in input are automatically convers see user manual). This keyword is only useful for runoff model 1 (SCS CN model)

1.190 OPTION FOR LIQUID BOUNDARIES

Type : Integer
Dimension : 2
Mnemo FRTYPE
DEFAULT VALUE : MANDATORY
French keyword : OPTION POUR LES FRONTIERES LIQUIDES
One integer per liquid boundary is given 1 : classical boundary conditions 2 : Thompson method based on characteristics

1.191 OPTION FOR THE DIFFUSION OF TRACERS

Type : Integer
Dimension : 1
Mnemo OPDTRA
DEFAULT VALUE : 1
French keyword : OPTION POUR LA DIFFUSION DES TRACEURS
1: Diffusion in the form div(nu grad(T)) 2: Diffusion in the form 1/h div (h nu grad(T))

1.192 OPTION FOR THE DIFFUSION OF VELOCITIES

Type :	Integer
Dimension :	1
Mnemo	OPDVIT
DEFAULT VALUE :	1
French keyword :	OPTION POUR LA DIFFUSION DES VITESSES

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

1.193 OPTION FOR THE SOLVER FOR K-EPSILON MODEL

Type :	Integer
Dimension :	1
Mnemo	ISOLKE
DEFAULT VALUE :	2
French keyword :	OPTION DU SOLVEUR POUR LE MODELE K-EPSILON

WHEN GMRES (7) IS CHOSEN, DIMENSION OF THE KRYLOV SPACE TRY VALUES BETWEEN 2 AND 15

1.194 OPTION FOR THE TREATMENT OF TIDAL FLATS

Type :	Integer
Dimension :	1
Mnemo	OPTBAN
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 3 : LIKE 1 BUT WITH POROSITY (DEFINA METHOD)

1.195 OPTION FOR TIDAL BOUNDARY CONDITIONS

Type :	Integer
Dimension :	2
Mnemo	BND_TIDE
DEFAULT VALUE :	MANDATORY
French keyword :	OPTION POUR LES CONDITIONS AUX LIMITES DE MAREE

Option for tidal boundary conditions. For real tides, option 1 is recommended. This keyword has been an array with a value given per liquid boundary, separated by semicolons, since version 7.1. This enables to have tidal conditions (or not) computed on liquid boundaries with prescribed velocities or depths, avoiding a clash when using weirs in the domain. 0 codes for conditions other than tidal. BEWARE since version 7.1! Old models must be changed if their tidal boundary is not number 1. In that case this keyword must be changed and more values given. Possible calibration with the keywords COEFFICIENT TO ADJUST TIDAL RANGE, COEFFICENT TO CALIBRATE TIDAL VELOCITIES, and COEFFICIENT TO ADJUST SEA LEVEL.

1.196 OPTION FOR TSUNAMI GENERATION

Type : Integer
Dimension : 1
Mnemo OPTTSUNAMI
DEFAULT VALUE : 0
French keyword : OPTION POUR LA GENERATION DE TSUNAMI
TODO: WRITE HELP FOR THAT KEYWORD

1.197 OPTION FOR WIND

Type : Integer
Dimension : 1
Mnemo OPTWIND
DEFAULT VALUE : 1
French keyword : OPTION DU VENT
gives option for managing the wind: 1: constant in time and space, given by keyword SPEED AND DIRECTION OF WIND 2: variable in time and (constant in space), given by formated file 3: variable in time and space , given by formated file or by a binary serafin file

1.198 OPTION OF THE HYDROSTATIC RECONSTRUCTION

Type : Integer
Dimension : 1
Mnemo HROPT
DEFAULT VALUE : 1
French keyword : OPTION DE LA RECONSTRUCION HYDROSTATIQUE
gives the option for hydrostatic reconstruction (used only for finite volumes): 1: option of Audusse, 2: option of Noelle

1.199 ORDINATES OF SOURCES

Type : Real
Dimension : 2
Mnemo YSCE
DEFAULT VALUE : MANDATORY
French keyword : ORDONNEES DES SOURCES
ordinates of sources of flowrate and/or tracer

1.200 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

1.201 ORIGINAL DATE OF TIME

Type : Integer
Dimension : 3
Mnemo MARDAT
DEFAULT VALUE : 1900;1;1
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.

1.202 ORIGINAL HOUR OF TIME

Type : Integer
Dimension : 3
Mnemo MARTIM
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.

1.203 PARALLEL PROCESSORS

Type : Integer
Dimension : 1
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....

1.204 PARAMETER ESTIMATION

Type : String
Dimension : 1
Mnemo ESTIME
DEFAULT VALUE : ”
French keyword : ESTIMATION DE PARAMETRE
List of parameter to be estimated, choice : FRICTION or FRICTION, STEADY

1.205 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...

1.206 PHYSICAL CHARACTERISTICS OF THE TSUNAMI

Type : Real
Dimension : 10
Mnemo COETSUNAMI
DEFAULT VALUE : 100.;210000.;75000.;13.6;81.;41.;110.;0.;0.;3.
French keyword : PARAMETRES PHYSIQUES DU TSUNAMI
TODO: WRITE HELP FOR THAT KEYWORD

1.207 PRECONDITIONING

Type : Integer
Dimension : 1
Mnemo SLVPRO
DEFAULT VALUE : 2
French keyword : PRECONDITIONNEMENT
Choice of the preconditioning in the propagation step linear system that the convergence is speeded up when it is being solved. 0: no preconditioning 2: diagonal preconditioning 3: block-diagonal preconditioning (systemes a 4 ou 9 matrices) 7: Crout"s preconditioning per element or segment 11: Gauss-Seidel"s preconditioning per element or segment 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.

1.208 PRECONDITIONING FOR DIFFUSION OF TRACERS

Type : Integer
Dimension : 1
Mnemo SLVTRA(ITRAC)
DEFAULT VALUE : 2
French keyword : PRECONDITIONNEMENT POUR LA DIFFUSION DES TRACEURS
Preconditioning of the linear system in the tracer diffusion step. Same definition and possibilities as for the keyword PRECONDITIONING 0: no preconditioning 2: diagonal preconditioning 7: Crout"s preconditioning per element.

1.209 PRECONDITIONING FOR K-EPSILON MODEL

Type : Integer
Dimension : 1
Mnemo IPREKE
DEFAULT VALUE : 2
French keyword : PRECONDITIONNEMENT POUR LE MODELE K-EPSILON
Preconditioning of the linear system in the diffusion step of the k-epsilon model. 0: no preconditioning 2: diagonal preconditioning 7: Crout"s preconditioning per element

1.210 PRESCRIBED ELEVATIONS

Type : Real
Dimension : 2
Mnemo COTES
DEFAULT VALUE : MANDATORY
French keyword : COTES IMPOSEES

Values of prescribed elevations at the inflow boundaries. The section about boundary conditions is to be read in the manual

1.211 PRESCRIBED FLOWRATES

Type :	Real
Dimension :	2
Mnemo	DEBIT
DEFAULT VALUE :	MANDATORY
French keyword :	DEBITS IMPOSES

Values of prescribed flowrates at the inflow boundaries. The section about boundary conditions is to be read in the manual

1.212 PRESCRIBED TRACERS VALUES

Type :	Real
Dimension :	2
Mnemo	TRACER
DEFAULT VALUE :	MANDATORY
French keyword :	VALEURS IMPOSEES DES TRACEURS

Tracer values prescribed at the inflow boundaries. Read the usermanual section dealing with the boundary conditions

1.213 PRESCRIBED VELOCITIES

Type :	Real
Dimension :	2
Mnemo	VITES
DEFAULT VALUE :	MANDATORY
French keyword :	VITESSES IMPOSEES

Values of prescribed velocities at the liquid inflow boundaries. Refer to the section dealing with the boundary conditions

1.214 PREVIOUS COMPUTATION FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DPRE)
DEFAULT VALUE :	”
French keyword :	FICHIER DU CALCUL PRECEDENT

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

1.215 PREVIOUS COMPUTATION FILE FORMAT

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DPRE)
DEFAULT VALUE :	’SERAFIN?’
French keyword :	FORMAT DU FICHIER DU CALCUL PRECEDENT

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

1.216 PRINTING CUMULATED FLOWRATES

Type : Logical
Dimension : 1
Mnemo CUMFLO
DEFAULT VALUE : NO
French keyword : IMPRESSION DU CUMUL DES FLUX
PRINTING THE CUMULATED FLOWRATES THROUGH CONTROL SECTIONS

1.217 PRINTOUT PERIOD FOR DROGUES

Type : Integer
Dimension : 1
Mnemo FLOPRD
DEFAULT VALUE : 1
French keyword : PERIODE POUR LES SORTIES DE FLOTTEURS
Number of time steps between 2 outputs of drogues positions in the binary file

1.218 PRODUCTION COEFFICIENT FOR SECONDARY CURRENTS

Type : Real
Dimension : 1
Mnemo SEC_AS
DEFAULT VALUE : 7.071
French keyword : COEFFICIENT DE PRODUCTION POUR COURANTS SECONDAIRES
A constant in the production terms of Omega

1.219 PROPAGATION

Type : Logical
Dimension : 1
Mnemo PROPA
DEFAULT VALUE : YES
French keyword : PROPAGATION
Determines whether the propagation step is taken into account or not. The diffusion being included in that step will be deleted as well.

1.220 PROPAGATION OPTION

Type : Integer
Dimension : 1
Mnemo OPTPRO
DEFAULT VALUE : 3
French keyword : OPTION DE PROPAGATION
Not yet implemented.

1.221 PSI SCHEME OPTION

Type :	Integer
Dimension :	1
Mnemo	OPTPSI
DEFAULT VALUE :	1
French keyword :	`OPTION DU SCHEMA PSI`

1: explicit 2: predictor-corrector

1.222 RAIN OR EVAPORATION

Type :	Logical
Dimension :	1
Mnemo	RAIN
DEFAULT VALUE :	NO
French keyword :	`PLUIE OU EVAPORATION`

to add or remove water at the free surface. See the key-word RAIN OR EVAPORATION IN MM PER DAY

1.223 RAIN OR EVAPORATION IN MM PER DAY

Type :	Real
Dimension :	1
Mnemo	RAIN_MMPD
DEFAULT VALUE :	0.0
French keyword :	`PLUIE OU EVAPORATION EN MM PAR JOUR`

to add or remove water at the free surface

1.224 RAINFALL-RUNOFF MODEL

Type :	Integer
Dimension :	1
Mnemo	RUNOFFOPT
DEFAULT VALUE :	0
French keyword :	`MODELE PLUIE-DEBIT`

Option for the rainfall-runoff model. Available options are: 0 : No infiltration 1 : CN runoff model (Curve Number method of the SCS)

1.225 RECORD NUMBER FOR RESTART

Type :	Integer
Dimension :	1
Mnemo	START_RECORD
DEFAULT VALUE :	0
French keyword :	`ENREGISTREMENT POUR SUITE DE CALCUL`

In case of COMPUTATION CONTINUED, record number to start from in the PREVIOUS COMPUTATION FILE

1.226 RECORD NUMBER IN WAVE FILE

Type : Integer
Dimension : 1
Mnemo NPTH
DEFAULT VALUE : 1
French keyword : NUMERO DE L'ENREGISTREMENT DANS LE FICHIER DE HOULE
Record number to read in the wave driven currents file

1.227 REFERENCE FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DREF)
DEFAULT VALUE : ”
French keyword : FICHIER DE REFERENCE
Binary-coded result file for validation. The results to be entered into this file shall be written on channel 22.

1.228 REFERENCE FILE FORMAT

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DREF)
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

1.229 REFINEMENT LEVELS

Type : Integer
Dimension : 1
Mnemo RLEVELS
DEFAULT VALUE : 0
French keyword : NIVEAUX DE RAFFINEMENT
Gives the number of refinement levels that the user wants to use in the convergence study (when activating CONVERGENCE). Each level multiplies the number of elements by 4

1.230 RELEASE

Type : String
Dimension : 1
Mnemo
DEFAULT VALUE : 'TRUNK'
French keyword : NUMERO DE VERSION
version number of the libraries used by TELEMAC. ON A WORKSTATION 5 numbers are given, corresponding to the libraries called: TELEMAC,DAMO,UTILE,BIEF,HP

1.231 RESULT FILE IN LONGITUDE-LATITUDE

Type :	Logical
Dimension :	1
Mnemo	KEEP_LONLAT
DEFAULT VALUE :	YES
French keyword :	FICHIER RESULTAT EN LONGITUDE-LATITUDE

gives result file in longitude latitude if geo file is also given in long lat

1.232 RESULTS FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DRES)
DEFAULT VALUE :	”
French keyword :	FICHIER DES RESULTATS

Name of the file into which the computation results shall be written, the periodicity being given by the key-word: GRAPHIC PRINTOUT PERIOD.

1.233 RESULTS FILE FORMAT

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DRES)
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

1.234 RICE2D STEERING FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(RICE2D)
DEFAULT VALUE :	”
French keyword :	FICHIER DES PARAMETRES DE RICE2D

Steering file for physical parameters of ice processes

1.235 ROUGHNESS COEFFICIENT OF BOUNDARIES

Type :	Real
Dimension :	1
Mnemo	SB
DEFAULT VALUE :	100.
French keyword :	COEFFICIENT DE RUGOSITE DES BORDS

Sets the value of the friction coefficient of the solid boundary with the bed roughness option. Same meaning than friction coefficient

1.236 SALINITY DELWAQ FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DDL4)
DEFAULT VALUE : ”
French keyword : FICHIER DELWAQ DE LA SALINITE
Results file for coupling with Delwaq

1.237 SALINITY FOR DELWAQ

Type : Logical
Dimension : 1
Mnemo SALI_DEL
DEFAULT VALUE : NO
French keyword : SALINITE POUR DELWAQ
Triggers output of salinity for Delwaq

1.238 SCHEME FOR ADVECTION OF K-EPSILON

Type : Integer
Dimension : 1
Mnemo ICONVF(4)
DEFAULT VALUE : 1
French keyword : SCHEMA POUR LA CONVECTION DU K-EPSILON
Choice of the advection scheme for k and epsilon, replaces TYPE OF ADVECTION

1.239 SCHEME FOR ADVECTION OF TRACERS

Type : Integer
Dimension : 1
Mnemo ICONVFT
DEFAULT VALUE : 1
French keyword : SCHEMA POUR LA CONVECTION DES TRACEURS
Choice of the advection scheme for the tracers, replaces TYPE OF ADVECTION

1.240 SCHEME FOR ADVECTION OF VELOCITIES

Type : Integer
Dimension : 1
Mnemo ICONVF(1)
DEFAULT VALUE : 1
French keyword : SCHEMA POUR LA CONVECTION DES VITESSES
Choice of the advection scheme for the velocities, replaces TYPE OF ADVECTION

1.241 SCHEME OPTION FOR ADVECTION OF K-EPSILON

Type : Integer
Dimension : 1
Mnemo OPTADV_KE
DEFAULT VALUE : 1
French keyword : OPTION DU SCHEMA POUR LA CONVECTION DU K-EPSILON
If present replaces and has priority over: OPTION FOR CHARACTERISTICS SUPG OPTION

if N or PSI SCHEME: 1=explicit 2=predictor-corrector 3= predictor-corrector second-order in time 4= implicit

1.242 SCHEME OPTION FOR ADVECTION OF TRACERS

Type : Integer
Dimension : 1
Mnemo OPTADV_TR
DEFAULT VALUE : 1
French keyword : `OPTION DU SCHEMA POUR LA CONVECTION DES TRACEURS`
If present replaces and has priority over: OPTION FOR CHARACTERISTICS SUPG OPTION
if N or PSI SCHEME: 1=explicit 2=predictor-corrector 3= predictor-corrector second-order in time 4= implicit

1.243 SCHEME OPTION FOR ADVECTION OF VELOCITIES

Type : Integer
Dimension : 1
Mnemo OPTADV_VI
DEFAULT VALUE : 1
French keyword : `OPTION DU SCHEMA POUR LA CONVECTION DES VITESSES`
If present replaces and has priority over: OPTION FOR CHARACTERISTICS SUPG OPTION
if N or PSI SCHEME: 1=explicit 2=predictor-corrector 3= predictor-corrector second-order in time 4= implicit

1.244 SECONDARY CURRENTS

Type : Logical
Dimension : 1
Mnemo SECCURRENTS
DEFAULT VALUE : NO
French keyword : `COURANTS SECONDAIRES`
Using the parametrisation for secondary currents

1.245 SECTIONS INPUT FILE

Type : String
Dimension : 1
Mnemo T2D_FILES
DEFAULT VALUE : ”
French keyword : `FICHIER DES SECTIONS DE CONTROLE`
sections input file, partitioned

1.246 SECTIONS OUTPUT FILE

Type : String
Dimension : 1
Mnemo T2D_FILES
DEFAULT VALUE : ”
French keyword : `FICHIER DE SORTIE DES SECTIONS DE CONTROLE`
sections output file, written by the master

1.247 SIPHONS DATA FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DSIP)
DEFAULT VALUE : ”
French keyword : FICHIER DE DONNEES DES SIPHONS
Description of culvert existing in the model

1.248 SISYPHE STEERING FILE

Type : String
Dimension : 1
Mnemo PAS DE MNEMO
DEFAULT VALUE : ”
French keyword : FICHIER DES PARAMETRES DE SISYPHE
Sisyphe parameter file in case of internal coupling

1.249 SOLVER

Type : Integer
Dimension : 1
Mnemo ISOLVE
DEFAULT VALUE : 3
French keyword : SOLVEUR
Makes it possible to select the solver used for solving the propagation step. 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) 8: direct

1.250 SOLVER ACCURACY

Type : Real
Dimension : 1
Mnemo EPSI1
DEFAULT VALUE : 1.E-4
French keyword : PRECISION DU SOLVEUR
Required accuracy for solving the propagation step (refer to Principle note).

1.251 SOLVER FOR DIFFUSION OF TRACERS

Type : Integer
Dimension : 2
Mnemo SLVTRA(ITRAC)
DEFAULT VALUE : 1;1
French keyword : SOLVEUR POUR LA DIFFUSION DES TRACEURS
1 : conjugate gradient 2 : conjugate gradient 3 : conjugate gradient on a normal equation 4 : minimum error 5 : squared conjugate gradient 6 : cgstab 7 : gmres (see option for the solver for tracer diffusion) 8 : direct

1.252 SOLVER FOR K-EPSILON MODEL

Type : Integer
Dimension : 1
Mnemo ISOLKE
DEFAULT VALUE : 1
French keyword : SOLVEUR POUR LE MODELE K-EPSILON
Makes it possible to select the solver used for solving the system of the k-epsilon model. 1: conjugate gradient 2: conjugate residuals 3: conjugate gradient on normal equation 4: minimum error 5: conjugate gradient squared 6: conjugate gradient squared stabilised (cgstab) 7: gmres (see option for the solver for k-epsilon model) 8: direct

1.253 SOLVER OPTION

Type : Integer
Dimension : 1
Mnemo ISOLVE
DEFAULT VALUE : 2
French keyword : OPTION DU SOLVEUR
WHEN GMRES (7) IS CHOSEN, DIMENSION OF THE KRYLOV SPACE TRY VALUES BETWEEN 2 AND 15

1.254 SOLVER OPTION FOR TRACERS DIFFUSION

Type : Integer
Dimension : 1
Mnemo SLVTRA(ITRAC)
DEFAULT VALUE : 2
French keyword : OPTION DU SOLVEUR POUR LA DIFFUSION DES TRACEURS
WHEN GMRES (7) IS CHOSEN, DIMENSION OF THE KRYLOV SPACE TRY VALUES BETWEEN 2 AND 15

1.255 SOURCES FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DVEF)
DEFAULT VALUE : ”
French keyword : FICHIER DES SOURCES
Name of the file containing time-dependent information on sources

1.256 SPACING OF ROUGHNESS ELEMENTS

Type : Real
Dimension : 1
Mnemo SP
DEFAULT VALUE : 0.14
French keyword : ESPACEMENT DES ELEMENTS DE FROTTEMENT
spacing of rouhness element

1.257 SPATIAL PROJECTION TYPE

Type : Integer
Dimension : 1
Mnemo PROTYP
DEFAULT VALUE : 1
French keyword : TYPE DE PROJECTION SPATIALE
Option 2 or 3 mandatory for spherical coordinates Option 3: latitude and longitude in degrees!

1.258 SPEED AND DIRECTION OF WIND

Type : Real
Dimension : 2
Mnemo WIND_SPD
DEFAULT VALUE : 0.;0.
French keyword : VITESSE ET DIRECTION DU VENT
gives the speed and direction (degre (from 0 to 360), 0 given y=0 anx x=+infinity) when they are constant in time and space (keyword OPTION FOR WIND = 1)

1.259 SPHERICAL COORDINATES

Type : Logical
Dimension : 1
Mnemo SPHERI
DEFAULT VALUE : NO
French keyword : COORDONNEES SPHERIQUES
Selection of spherical coordinates to perform the computation (for large computation domains). Warning: this option is closely related to the mesh that should have been entered onto a nautical chart drawn as per Mercator projection The LATITUDE OF ORIGIN POINT (another keyword), which corresponds to ordinate y=0 in the mesh, must moreover be given.

1.260 STAGE-DISCHARGE CURVES

Type : Integer
Dimension : 2
Mnemo STA_DIS_CURVES
DEFAULT VALUE : MANDATORY
French keyword : COURBES DE TARAGE
Says if a discharge-elevation curve must be used for a given boundary 0:NO 1:Z(Q) 2: Q(Z)

1.261 STAGE-DISCHARGE CURVES FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DMAB)
DEFAULT VALUE : ”
French keyword : FICHIER DES COURBES DE TARAGE
Name of the file containing stage-discharge curves

1.262 STEERING FILE

Type :	String
Dimension :	1
Mnemo	NOMCAS
DEFAULT VALUE :	”
French keyword :	FICHIER DES PARAMETRES

Name of the file containing the parameters of the computation Written by the user.

1.263 STOCHASTIC DIFFUSION MODEL

Type :	Integer
Dimension :	1
Mnemo	STOCHA
DEFAULT VALUE :	0
French keyword :	MODELE DE DIFFUSION STOCHASTIQUE

Meant for particles: drogues, oil spills

1.264 STOP CRITERIA

Type :	Real
Dimension :	3
Mnemo	CRIPER
DEFAULT VALUE :	1.E-4;1.E-4;1.E-4
French keyword :	CRITERES D'ARRET

Stop criteria for a steady state These coefficients are applied respectively to 1) U and V 2) H 3) T To be used with the key-word: STOP IF A STEADY STATE IS REACHED

1.265 STOP IF A STEADY STATE IS REACHED

Type :	Logical
Dimension :	1
Mnemo	STOPER
DEFAULT VALUE :	NO
French keyword :	ARRET SI UN ETAT PERMANENT EST ATTEINT

TO BE USED WITH THE KEY-WORD: STOP CRITERIA

1.266 SUPG OPTION

Type :	Integer
Dimension :	4
Mnemo	OPTSUP
DEFAULT VALUE :	2;2;2;2
French keyword :	OPTION DE SUPG

0:no upwinding 1: classical SUPG 2:modified SUPG These coefficients are applied respectively to 1) U et V 2) H 3) T 4) K and EPSILON

1.267 TEMPERATURE DELWAQ FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DDL8)
DEFAULT VALUE : ”
French keyword : FICHIER DELWAQ DE LA TEMPERATURE
Results file for coupling with Delwaq

1.268 TEMPERATURE FOR DELWAQ

Type : Logical
Dimension : 1
Mnemo TEMP_DEL
DEFAULT VALUE : NO
French keyword : TEMPERATURE POUR DELWAQ
Triggers output of temperature for Delwaq

1.269 THICKNESS OF ALGAE

Type : Real
Dimension : 1
Mnemo EALGAE
DEFAULT VALUE : 0.01
French keyword : EPAISSEUR DES ALGUES
Thickness of algae in m

1.270 THRESHOLD DEPTH FOR RECEDING PROCEDURE

Type : Real
Dimension : 1
Mnemo HREC
DEFAULT VALUE : 0.
French keyword : PROFONDEUR LIMITE POUR PROCEDURE DE RESSUYAGE
If > 0., will trigger the receding procedure that avoids overwhelming of dykes which are too loosely discretised

1.271 THRESHOLD DEPTH FOR WIND

Type : Real
Dimension : 1
Mnemo HWIND
DEFAULT VALUE : 1.
French keyword : PROFONDEUR LIMITE POUR LE VENT
Wind is not taken into account for small depths

1.272 THRESHOLD FOR NEGATIVE DEPTHS

Type : Real
Dimension : 1
Mnemo HNEG
DEFAULT VALUE : 0.
French keyword : SEUIL POUR LES PROFONDEURS NEGATIVES

Below the threshold the negative depths are smoothed

1.273 TIDAL DATA BASE

Type :	Integer
Dimension :	1
Mnemo	TIDALDB
DEFAULT VALUE :	-1
French keyword :	BASE DE DONNEES DE MAREE

For JMJ, indicate the location of the files bdd_jmj and geofin with keywords TIDE DATA BASE and TIDAL MODEL FILE. For TPXO, LEGOS-NEA, FES20XX and PREVIMER, the user has to download files of harmonic constituents on the internet

1.274 TIDAL FLATS

Type :	Logical
Dimension :	1
Mnemo	BANDEC
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

1.275 TIDAL MODEL FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DTID)
DEFAULT VALUE :	”
French keyword :	FICHIER DU MODELE DE MAREE

Geometry file of the model from which harmonic constituents are extracted

1.276 TIDAL MODEL FILE FORMAT

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DTID)%FMT
DEFAULT VALUE :	’SERAFIN?’
French keyword :	FORMAT DU FICHIER DU MODELE DE MAREE

Format of the TIDAL MODEL FILE. Possible choices are:

- SERAFIN : classical single precision format in TELEMAC,
- SERAFIND: classical double precision format in TELEMAC,
- MED : MED double precision format based on HDF5.

1.277 TIDE GENERATING FORCE

Type :	Logical
Dimension :	1
Mnemo	MAREE
DEFAULT VALUE :	NO
French keyword :	FORCE GENERATRICE DE LA MAREE

The tide generating force is taken into account.

1.278 TIME RANGE FOR FOURIER ANALYSIS

Type :	Real
Dimension :	2
Mnemo	TAFBGN,TAFEND
DEFAULT VALUE :	0.;0.
French keyword :	BORNES EN TEMPS POUR L'ANALYSE DE FOURIER

For computing tidal range and phase of tide

1.279 TIME STEP

Type :	Real
Dimension :	1
Mnemo	DT
DEFAULT VALUE :	1.
French keyword :	PAS DE TEMPS

Specifies the time step in seconds.

1.280 TIME STEP REDUCTION FOR K-EPSILON MODEL

Type :	Real
Dimension :	1
Mnemo	REDUC
DEFAULT VALUE :	1.
French keyword :	REDUCTION DU PAS DE TEMPS POUR LE MODELE K-EPSILON

Time step reduction coefficient for k-epsilon model (which is normally same the same as that of the hydrodynamic system) Not recommended for use.

1.281 TITLE

Type :	String
Dimension :	1
Mnemo	TITCAS
DEFAULT VALUE :	”
French keyword :	TITRE

Title of the case being considered. This title shall be marked on the drawings.

1.282 TOLERANCES FOR IDENTIFICATION

Type :	Real
Dimension :	4
Mnemo	TOLEST
DEFAULT VALUE :	1.E-3;1.E-3;1.E-3;1.E-4
French keyword :	PRECISIONS POUR L'IDENTIFICATION

4 numbers: absolute precision on H, U V, and relative precision on the cost function

1.283 TOMAWAC STEERING FILE

Type :	String
Dimension :	1
Mnemo	PAS DE MNEMO
DEFAULT VALUE :	”
French keyword :	FICHIER DES PARAMETRES DE TOMAWAC

Tomawac parameter file in case of internal coupling

1.284 TREATMENT OF FLUXES AT THE BOUNDARIES

Type :	Integer
Dimension :	2
Mnemo	DIRFLU
DEFAULT VALUE :	1;1
French keyword :	TRAITEMENT DES FLUX AUX FRONTIERES

Used so far only with the SUPG, PSI and N schemes. With option 2, Dirichlet prescribed values are not obeyed, but the fluxes are correct

1.285 TREATMENT OF NEGATIVE DEPTHS

Type :	Integer
Dimension :	1
Mnemo	OPT_HNEG
DEFAULT VALUE :	1
French keyword :	TRAITEMENT DES HAUTEURS NEGATIVES

Only with OPTION FOR THE TREATMENT OF TIDAL FLATS=1 0:no treatment 1:smoothing 2:flux control, by segment 3:flux control, by element

1.286 TREATMENT OF THE LINEAR SYSTEM

Type :	Integer
Dimension :	1
Mnemo	SOLSYS
DEFAULT VALUE :	1
French keyword :	TRAITEMENT DU SYSTEME LINEAIRE

1 : Coupled 2 : wave equation

1.287 TURBULENCE MODEL

Type :	Integer
Dimension :	1
Mnemo	ITURB
DEFAULT VALUE :	1
French keyword :	MODELE DE TURBULENCE

The current alternatives are as follows: constant viscosity (1) elder”s model (2) or k-epsilon model (3). NOTE: when option 1 is chosen, it should be kept in mind that the value of the keyword VELOCITY DIFFUSIVITY has to be ajusted. When option 2 is chosen, the two values of key-word : NON-DIMENSIONAL DISPERSION COEFFICIENTS are used When option 3 is chosen, this parameter should recover its true physical value, since it is used as such in the turbulence model.

1.288 TURBULENCE REGIME FOR SOLID BOUNDARIES

Type : Integer
Dimension : 1
Mnemo LISRUG
DEFAULT VALUE : 2
French keyword : `REGIME DE TURBULENCE POUR LES PAROIS`
Provided for selecting the type of friction on the walls 1: smooth 2: rough

1.289 TYPE OF ADVECTION

Type : Integer
Dimension : 4
Mnemo ICONVF
DEFAULT VALUE : 1;5;1;1
French keyword : `FORME DE LA CONVECTION`
Choice of advection schemes for every variable These coefficients are applied respectively to 1) U et V 2) H 3) T 4) K and EPSILON 1: characteristics 2: SUPG 3: Conservative N-scheme 4: Conservative N-scheme 5: Conservative PSI-scheme 13 : Edge-based N-scheme 14 : Edge-based N-scheme 15 : ERIA scheme Second integer must be 5

1.290 TYPE OF SOURCES

Type : Integer
Dimension : 1
Mnemo OPTSOU
DEFAULT VALUE : 1
French keyword : `TYPE DES SOURCES`
1: Source term multiplied by a finite element basis 2: Source term multiplied by a Dirac function

1.291 TYPE OF WEIRS

Type : Integer
Dimension : 1
Mnemo TYPSEUIL
DEFAULT VALUE : 1
French keyword : `TYPE DES SEUILS`
Method for treatment of weirs. Two options: - HORIZONTAL WITH SAME NUMBER OF NODES UPSTREAM/DOWNSTREAM (Historical solution with bord) - GENERAL (New solution with sources points

1.292 UPWIND COEFFICIENTS

Type : Real
Dimension : 4
Mnemo COSUPG
DEFAULT VALUE : 1.;1.;1.;1
French keyword : `COEFFICIENTS DE DECENTREMENT`
Upwind coefficients used by the S.U.P.G. method These coefficients are applied respectively to 1) U and V 2) H or C 3) T 4) K and epsilon

1.293 VALIDATION

Type : Logical
Dimension : 1
Mnemo VALID
DEFAULT VALUE : NO
French keyword : VALIDATION
This option is primarily used for the validation documents. The PREVIOUS COMPUTATION 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 as to so as to include, for example,a comparison with an exact solution.

1.294 VALUE OF ATMOSPHERIC PRESSURE

Type : Real
Dimension : 1
Mnemo PATMOS_VALUE
DEFAULT VALUE : 100000.
French keyword : VALEUR DE LA PRESSION ATMOSPHERIQUE
gives the value of atmospheric pressure when it is contant in time and space

1.295 VALUES OF THE TRACERS AT THE SOURCES

Type : Real
Dimension : 2
Mnemo TSCE
DEFAULT VALUE : MANDATORY
French keyword : VALEURS DES TRACEURS DES SOURCES
Values of the tracers at the sources

1.296 VALUES OF TRACERS IN THE RAIN

Type : Real
Dimension : 2
Mnemo TRAIN
DEFAULT VALUE : MANDATORY
French keyword : VALEURS DES TRACEURS DANS LA PLUIE
most often, this tracer is temperature, in this case this value should be modified, otherwise, default value of 0 seems reasonable

1.297 VARIABLE TIME-STEP

Type : Logical
Dimension : 1
Mnemo DTVARI
DEFAULT VALUE : NO
French keyword : PAS DE TEMPS VARIABLE
Variable time-step to get a given Courant number

1.298 VARIABLES FOR GRAPHIC PRINTOUTS

Type :	String
Dimension :	4
Mnemo	SORTIE
DEFAULT VALUE :	'U;V;H;B'
French keyword :	VARIABLES POUR LES SORTIES GRAPHIQUES

Names of variables the user wants to write into the results file. Each variable is represented by a letter. The separators can be freely selected. The available capabilities are as follows: - U : velocity along x axis (m/s), - V : velocity along y axis (m/s), - C : wave celerity (m/s), - H : water depth (m), - S : free surface elevation (m), - B : bottom elevation (m), - F : Froude number, - Q : scalar flowrate of fluid (m2/s), - Tn : tracer, with n the tracer number, - K : turbulent kinetic energy in k-epsilon model (J/kg), - E : dissipation of turbulent energy (W/kg), - D : turbulent viscosity of k-epsilon model (m2/s), - I : flowrate along x axis (m2/s), - J : flowrate along y axis (m2/s), - M : scalar velocity (m/s), - X : wind along x axis (m/s) Y : wind along y axis (m/s), - P : air pressure (Pa), - W : friction coefficient , - A : drift along x, - G : drift along y, - L : nombre de courant, - Gn : differentiated gradient, with n the gradient reference number. Four other variables are also made available to the user who may use them for writing into the file the results of variables he creates himself. These user-specific variables should be computed in the subroutine PRERES and their desired name should be written into the subroutine NOMVAR. These seven variables are as follows: - N, O, R, Z which correspond to arrays PRIVE(1,1) up to PRIVE(1, Unlike the preceding variables, they are preserved throughout the program, so that they can be used again. In the latter case, do not forget to provide the array PRIVE with sufficiently large dimensions (in FORTRAN file). With this key-word, one can limit the size of the RESULTS FILE. It should be kept in mind, however, that if a computation has to be continued, the RESULTS FILE should contain the appropriate information for running the code,i.e.: - velocities U and V, - water depths H, - bottom elevations B. TELEMAC, however, can compute some of these variables from others for example, it will compute H from S and B.

1.299 VARIABLES TO BE PRINTED

Type :	String
Dimension :	1
Mnemo	VARIMP
DEFAULT VALUE :	"
French keyword :	VARIABLES A IMPRIMER

Name of the variables that the user wants printed on screen. Same values available as graphical outputs

1.300 VECTOR LENGTH

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

VECTOR LENGTH ON VECTOR MACHINES

1.301 VELOCITIES OF THE SOURCES ALONG X

Type :	Real
Dimension :	2
Mnemo	USCE
DEFAULT VALUE :	MANDATORY
French keyword :	VITESSES DES SOURCES SELON X

Velocities at the sources. If they are not given, the velocity of the flow at this location is taken

1.302 VELOCITIES OF THE SOURCES ALONG Y

Type :	Real
Dimension :	2
Mnemo	VSCE
DEFAULT VALUE :	MANDATORY
French keyword :	VITESSES DES SOURCES SELON Y

Velocities at the sources

1.303 VELOCITY DELWAQ FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DDL9)
DEFAULT VALUE :	”
French keyword :	FICHIER DELWAQ DE LA VITESSE

Results file for coupling with Delwaq

1.304 VELOCITY DIFFUSIVITY

Type :	Real
Dimension :	1
Mnemo	PROPNU
DEFAULT VALUE :	1.E-6
French keyword :	COEFFICIENT DE DIFFUSION DES VITESSES

Sets, in an even way for the whole domain, the value of the coefficient of global (dynamic+turbulent) viscosity. this value may have a significant effect both on the shapes and sizes of recirculation zones.

1.305 VELOCITY FOR DELWAQ

Type :	Logical
Dimension :	1
Mnemo	VELO_DEL
DEFAULT VALUE :	NO
French keyword :	VITESSE POUR DELWAQ

Triggers output of velocity for Delwaq

1.306 VELOCITY PROFILES

Type : Integer
Dimension : 2
Mnemo PROVEL
DEFAULT VALUE : MANDATORY
French keyword : PROFILS DE VITESSE
1:constant normal profile 2:u and v given in the conlim file 3:normal velocity given in ubor in the conlim file 4:sqrt(depth) profile 5:sqrt(depth) profile, variant

1.307 VERTICAL FLUXES DELWAQ FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DDL3)
DEFAULT VALUE : ”
French keyword : FICHIER DELWAQ DES FLUX VERTICAUX
Results file for coupling with Delwaq

1.308 VERTICAL STRUCTURES

Type : Logical
Dimension : 1
Mnemo VERTIC
DEFAULT VALUE : NO
French keyword : STRUCTURES VERTICALES
drag forces from vertical structures are taken into account. (subroutine DRAGFO must then be implemented)

1.309 VOLUMES DELWAQ FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DSOU)
DEFAULT VALUE : ”
French keyword : FICHIER DELWAQ DES VOLUMES
Results file for coupling with Delwaq

1.310 WAQTEL STEERING FILE

Type : String
Dimension : 1
Mnemo
DEFAULT VALUE : ”
French keyword : FICHIER DES PARAMETRES DE WAQTEL
file for physical parameters of waq processes (local ones of Telemac-tracer not those of DELWAQ)

1.311 WATER DENSITY

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

1.312 WATER DISCHARGE OF SOURCES

Type : Real
Dimension : 2
Mnemo DSCE
DEFAULT VALUE : MANDATORY
French keyword : DEBITS DES SOURCES
values of water discharge of sources

1.313 WATER QUALITY PROCESS

Type : Integer
Dimension : 1
Mnemo WAQPROCESS
DEFAULT VALUE : 0
French keyword : PROCESSUS QUALITE D'EAU
gives the waq process number (from 1 to 5) 0-NOTHING, 1-O2, 2-BIOMASS, 3-EUTRO 4-MICROPOL 5-THERMIC)

1.314 WAVE DRIVEN CURRENTS

Type : Logical
Dimension : 1
Mnemo COUROU
DEFAULT VALUE : NO
French keyword : COURANTS DE HOULE
Wave driven currents are taken into account.

1.315 WAVE ENHANCED FRICTION FACTOR

Type : Logical
Dimension : 1
Mnemo FRICOU
DEFAULT VALUE : NO
French keyword : AUGMENTATION DU FROTTEMENT PAR LA HOULE
Wave friction enhancement for the calculation of the wave generated longshore current (cf OConnor and Yoo, 1988, Coast Eng.12.)

1.316 WEIRS DATA FILE

Type : String
Dimension : 1
Mnemo T2D_FILES(T2DSEU)
DEFAULT VALUE : ”
French keyword : FICHIER DE DONNEES DES SEUILS
Description of weirs existing in the model

1.317 WIND

Type : Logical
Dimension : 1
Mnemo VENT
DEFAULT VALUE : NO
French keyword : VENT
Determines whether the wind effects are to be taken into account or not.

1.318 WIND VELOCITY ALONG X

Type : Real
Dimension : 1
Mnemo FUAIR
DEFAULT VALUE : 0.
French keyword : VITESSE DU VENT SUIVANT X
Wind velocity, component along x axis (m/s).

1.319 WIND VELOCITY ALONG Y

Type : Real
Dimension : 1
Mnemo FVAIR
DEFAULT VALUE : 0.
French keyword : VITESSE DU VENT SUIVANT Y
Wind velocity, component along y axis (m/s).

1.320 ZERO

Type : Real
Dimension : 1
Mnemo SLVPRO
DEFAULT VALUE : 1.E-10
French keyword : ZERO
Not yet implemented

1.321 ZONE NUMBER IN GEOGRAPHIC SYSTEM

Type : Integer
Dimension : 1
Mnemo NUMZONE
DEFAULT VALUE : -1
French keyword : NUMERO DE FUSEAU OU PROJECTION DANS LE SYSTEME GEOGRAPHIQUE
Number of zone when using a plane projection. Indicate the geographic system in which the

numerical model is built with the keyword GEOGRAPHIC SYSTEM. Possible choices are:

- 1: Lambert 1 north,
- 2: Lambert 2 center,
- 3: Lambert 3 south,
- 4: Lambert 4 Corsica,
- 22: Lambert 22 extended,
- 93: Lambert 93 extended,
- X: UTM zone with WGS84 (X is the number of the zone).

1.322 ZONES FILE

Type :	String
Dimension :	1
Mnemo	T2D_FILES(T2DZFI)
DEFAULT VALUE :	”
French keyword :	FICHIER DES ZONES

Zones file, with on every line: point number zone number

2. List of keywords classified according to type

2.1 COMPUTATION ENVIRONMENT

2.1.1 INITIALIZATION

BINARY DATA FILE 1
BINARY DATA FILE 1 FORMAT
BINARY DATA FILE 2
BINARY DATA FILE 2 FORMAT
FORMATTED DATA FILE 1
FORMATTED DATA FILE 2
INITIAL CONDITIONS
INITIAL DEPTH
INITIAL ELEVATION
TITLE

GLOBAL

CHECKING THE MESH
MAXIMUM NUMBER OF BOUNDARIES
MAXIMUM NUMBER OF SOURCES
MAXIMUM NUMBER OF TRACERS
PARALLEL PROCESSORS
VECTOR LENGTH

INPUT FILES

BOTTOM SMOOTHINGS
BOTTOM TOPOGRAPHY FILE
BOUNDARY CONDITIONS FILE
FORTRAN FILE
GEOMETRY FILE
GEOMETRY FILE FORMAT
REFERENCE FILE
REFERENCE FILE FORMAT
VALIDATION

2.1.2 OUTPUT FILES

CONTROL SECTION

COMPATIBLE COMPUTATION OF FLUXES
CONTROL SECTIONS
FLUXLINE
FLUXLINE INPUT FILE
PRINTING CUMULATED FLOWRATES
SECTIONS INPUT FILE
SECTIONS OUTPUT FILE

FOURIER

FOURIER ANALYSIS PERIODS
TIME RANGE FOR FOURIER ANALYSIS

LISTING

INFORMATION ABOUT SOLVER
LIST OF POINTS
LISTING FOR PRINTOUT PERIOD
LISTING PRINTOUT
LISTING PRINTOUT PERIOD
MASS-BALANCE
NAMES OF POINTS
NUMBER OF FIRST TIME STEP FOR LISTING PRINTOUTS
VARIABLES TO BE PRINTED

RESULTS FILES

BINARY RESULTS FILE
BINARY RESULTS FILE FORMAT
FORMATTED RESULTS FILE
GRAPHIC PRINTOUT PERIOD
NAMES OF PRIVATE VARIABLES
NUMBER OF FIRST TIME STEP FOR GRAPHIC PRINTOUTS
NUMBER OF PRIVATE ARRAYS
RESULT FILE IN LONGITUDE-LATITUDE
RESULTS FILE
RESULTS FILE FORMAT
VARIABLES FOR GRAPHIC PRINTOUTS

2.1.3 RESTART

COMPUTATION CONTINUED
INITIAL TIME SET TO ZERO
PREVIOUS COMPUTATION FILE
PREVIOUS COMPUTATION FILE FORMAT
RECORD NUMBER FOR RESTART

2.2 COUPLING

COUPLING DIRECTORY
COUPLING WITH
NAMES OF CLANDESTINE VARIABLES

2.2.1 DELWAQ

BOTTOM SURFACES DELWAQ FILE
DELWAQ PRINTOUT PERIOD
DELWAQ STEERING FILE
DIFFUSIVITY DELWAQ FILE
DIFFUSIVITY FOR DELWAQ
EXCHANGE AREAS DELWAQ FILE
EXCHANGES BETWEEN NODES DELWAQ FILE
NODES DISTANCES DELWAQ FILE
SALINITY DELWAQ FILE
SALINITY FOR DELWAQ
TEMPERATURE DELWAQ FILE
TEMPERATURE FOR DELWAQ
VELOCITY DELWAQ FILE
VELOCITY FOR DELWAQ
VERTICAL FLUXES DELWAQ FILE
VOLUMES DELWAQ FILE

2.2.2 RICE2D

RICE2D STEERING FILE

2.2.3 SISYPHE

COUPLING PERIOD FOR SISYPHE
SISYPHE STEERING FILE

2.2.4 TOMAWAC

COUPLING PERIOD FOR TOMAWAC
TOMAWAC STEERING FILE

2.2.5 WAQTEL

WAQTEL STEERING FILE

2.3 GENERAL PARAMETERS

DEBUGGER

2.3.1 LOCATION

LATITUDE OF ORIGIN POINT
LONGITUDE OF ORIGIN POINT
NORTH
ORIGIN COORDINATES
SPATIAL PROJECTION TYPE
SPHERICAL COORDINATES

2.3.2 TIME

CONTROL OF LIMITS
DESIRED COURANT NUMBER
DURATION
LIMIT VALUES
NUMBER OF TIME STEPS
ORIGINAL DATE OF TIME
ORIGINAL HOUR OF TIME
STOP CRITERIA
STOP IF A STEADY STATE IS REACHED
TIME STEP
VARIABLE TIME-STEP

2.4 HYDRAULIC STRUCTURES

2.4.1 BREACHES

BREACH
BREACHES DATA FILE

2.4.2 CULVERTS

CULVERTS DATA FILE
NUMBER OF CULVERTS
OPTION FOR CULVERTS

2.4.3 SIPHONS

NUMBER OF SIPHONS
SIPHONS DATA FILE

2.4.4 WEIRS

NUMBER OF WEIRS
TYPE OF WEIRS
WEIRS DATA FILE

2.5 HYDRO

2.5.1 BOUNDARY CONDITIONS

PRESCRIBED ELEVATIONS
PRESCRIBED FLOWRATES
PRESCRIBED VELOCITIES

2.5.2 BOUNDARY CONDITIONS OTHERS

ELEMENTS MASKED BY USER
LIQUID BOUNDARIES FILE
OPTION FOR LIQUID BOUNDARIES
STAGE-DISCHARGE CURVES
STAGE-DISCHARGE CURVES FILE
VELOCITY PROFILES

2.5.3 FLUID

CORIOLIS EFFECT

CORIOLIS
CORIOLIS COEFFICIENT

SECONDARY CURRENTS INFO

DISSIPATION COEFFICIENT FOR SECONDARY CURRENTS
PRODUCTION COEFFICIENT FOR SECONDARY CURRENTS
SECONDARY CURRENTS

TSUNAMI

OPTION FOR TSUNAMI GENERATION
PHYSICAL CHARACTERISTICS OF THE TSUNAMI

2.5.4 NUMERICAL PARAMETERS HYDRO

EQUATIONS
FINITE VOLUME SCHEME
TREATMENT OF THE LINEAR SYSTEM

2.5.5 PHYSICAL PARAMETERS HYDRO

ADVANCED-PHY

GRAVITY ACCELERATION
VERTICAL STRUCTURES
WATER DENSITY

ESTIMATION

COST FUNCTION
IDENTIFICATION METHOD

MAXIMUM NUMBER OF ITERATIONS FOR IDENTIFICATION
PARAMETER ESTIMATION
TOLERANCES FOR IDENTIFICATION

FRICTION

DEFINITION OF ZONES
DEPTH IN FRICTION TERMS
DIAMETER OF ROUGHNESS ELEMENTS
FRICTION COEFFICIENT
FRICTION DATA
FRICTION DATA FILE
LAW OF BOTTOM FRICTION
LAW OF FRICTION ON LATERAL BOUNDARIES
MANNING DEFAULT VALUE FOR COLEBROOK-WHITE LAW
MAXIMUM NUMBER OF FRICTION DOMAINS
NON-SUBMERGED VEGETATION FRICTION
ROUGHNESS COEFFICIENT OF BOUNDARIES
SPACING OF ROUGHNESS ELEMENTS
ZONES FILE

ICE

ICE PROCESSES

METEOROLOGY

AIR PRESSURE
ANTECEDENT MOISTURE CONDITIONS
ASCII ATMOSPHERIC DATA FILE
BINARY ATMOSPHERIC DATA FILE
BINARY ATMOSPHERIC DATA FILE FORMAT
COEFFICIENT OF WIND INFLUENCE
DURATION OF RAIN OR EVAPORATION IN HOURS
OPTION FOR INITIAL ABSTRACTION RATIO
OPTION FOR WIND
RAIN OR EVAPORATION
RAIN OR EVAPORATION IN MM PER DAY
RAINFALL-RUNOFF MODEL
SPEED AND DIRECTION OF WIND
THRESHOLD DEPTH FOR WIND
VALUE OF ATMOSPHERIC PRESSURE
WIND
WIND VELOCITY ALONG X
WIND VELOCITY ALONG Y

SOURCES

ABSCISSAE OF SOURCES
GLOBAL NUMBERS OF SOURCE NODES
ORDINATES OF SOURCES

SOURCES FILE
TYPE OF SOURCES
VELOCITIES OF THE SOURCES ALONG X
VELOCITIES OF THE SOURCES ALONG Y
WATER DISCHARGE OF SOURCES

WATER QUALITY INFO

WATER QUALITY PROCESS

WAVE

RECORD NUMBER IN WAVE FILE
WAVE DRIVEN CURRENTS
WAVE ENHANCED FRICTION FACTOR

2.6 INTERNAL

DEFAULT EXECUTABLE
DEFAULT PARALLEL EXECUTABLE
DESCRIPTION OF LIBRARIES
DICTIONARY
LANGUAGE
LIST OF FILES
PARTITIONING TOOL
RELEASE
STEERING FILE

2.7 NUMERICAL PARAMETERS

2.7.1 ADVANCED

CONVERGENCE STUDY
MATRIX STORAGE
MATRIX-VECTOR PRODUCT
NEWMARK TIME INTEGRATION COEFFICIENT
OPTION OF THE HYDROSTATIC RECONSTRUCTION
PROPAGATION OPTION
REFINEMENT LEVELS
ZERO

2.7.2 ADVECTION INFO

ADVECTION
ADVECTION OF H
ADVECTION OF U AND V
FREE SURFACE GRADIENT COMPATIBILITY
MASS-LUMPING FOR WEAK CHARACTERISTICS
MASS-LUMPING ON H

MASS-LUMPING ON VELOCITY
MAXIMUM NUMBER OF ITERATIONS FOR ADVECTION SCHEMES
NUMBER OF CORRECTIONS OF DISTRIBUTIVE SCHEMES
NUMBER OF GAUSS POINTS FOR WEAK CHARACTERISTICS
NUMBER OF SUB-ITERATIONS FOR NON-LINEARITIES
NUMBER OF SUB-STEPS OF DISTRIBUTIVE SCHEMES
OPTION FOR CHARACTERISTICS
PSI SCHEME OPTION
SCHEME FOR ADVECTION OF VELOCITIES
SCHEME OPTION FOR ADVECTION OF VELOCITIES
SUPG OPTION
TREATMENT OF FLUXES AT THE BOUNDARIES
TYPE OF ADVECTION
UPWIND COEFFICIENTS

2.7.3 AUTOMATIC DIFFERENTIATION

AD LINEAR SOLVER DERIVATIVE CONVERGENCE
AD LINEAR SOLVER RESET DERIVATIVES
AD NAMES OF DERIVATIVES
AD NUMBER OF DERIVATIVES
AD SYMBOLIC LINEAR SOLVER

2.7.4 DIFFUSION

DIFFUSION OF VELOCITY
IMPLICITATION FOR DIFFUSION OF VELOCITY
OPTION FOR THE DIFFUSION OF VELOCITIES

2.7.5 DISCRETISATIONS IMPLICITATION

DISCRETIZATIONS IN SPACE
IMPLICITATION FOR DEPTH
IMPLICITATION FOR VELOCITY

2.7.6 PROPAGATION INFO

INITIAL GUESS FOR H
INITIAL GUESS FOR U
LINEARIZED PROPAGATION
MEAN DEPTH FOR LINEARIZATION
PROPAGATION

2.7.7 SOLVER INFO

C-U PRECONDITIONING
CONTINUITY CORRECTION
FINITE ELEMENT ASSEMBLY

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

2.8 PARTICLE TRANSPORT

2.8.1 ALGAES

ALGAE TRANSPORT MODEL
ALGAE TYPE
DENSITY OF ALGAE
DIAMETER OF ALGAE
THICKNESS OF ALGAE

2.8.2 BROWNIAN MOTION

STOCHASTIC DIFFUSION MODEL

2.8.3 DROGUES

DROGUES FILE
NUMBER OF DROGUES
PRINTOUT PERIOD FOR DROGUES

2.8.4 LAGRANGIAN DRIFTS

NUMBER OF LAGRANGIAN DRIFTS

2.8.5 OIL SPILL

OIL SPILL MODEL
OIL SPILL STEERING FILE

2.9 TIDAL FLATS INFO

H CLIPPING
MINIMUM VALUE OF DEPTH
OPTION FOR THE TREATMENT OF TIDAL FLATS
THRESHOLD DEPTH FOR RECEDING PROCEDURE
THRESHOLD FOR NEGATIVE DEPTHS
TIDAL FLATS
TREATMENT OF NEGATIVE DEPTHS

2.10 TIDES

BINARY DATABASE 1 FOR TIDE
BINARY DATABASE 2 FOR TIDE
COEFFICIENT TO CALIBRATE SEA LEVEL
GEOGRAPHIC SYSTEM
GLOBAL NUMBER OF THE POINT TO CALIBRATE HIGH WATER
LAMBERT 93 CONVERSION FILE
MINOR CONSTITUENTS INFERENCE
ZONE NUMBER IN GEOGRAPHIC SYSTEM

2.10.1 BOUNDARY CONDITIONS

ASCII DATABASE FOR TIDE
COEFFICIENT TO CALIBRATE TIDAL RANGE
COEFFICIENT TO CALIBRATE TIDAL VELOCITIES
HARMONIC CONSTANTS FILE
LOCAL NUMBER OF THE POINT TO CALIBRATE HIGH WATER
OPTION FOR TIDAL BOUNDARY CONDITIONS
TIDAL DATA BASE
TIDAL MODEL FILE
TIDAL MODEL FILE FORMAT

2.10.2 PHYSICAL PARAMETERS

TIDE GENERATING FORCE

2.11 TRACERS

2.11.1 ACCURACY TRA

ACCURACY FOR DIFFUSION OF TRACERS
MAXIMUM NUMBER OF ITERATIONS FOR DIFFUSION OF TRACERS

2.11.2 BOUNDARY CONDITIONS FOR TRACERS

PRESCRIBED TRACERS VALUES

2.11.3 DEGRADATION

COEFFICIENT 1 FOR LAW OF TRACERS DEGRADATION
LAW OF TRACERS DEGRADATION

2.11.4 METEOROLOGY TRA

VALUES OF TRACERS IN THE RAIN

2.11.5 NUMERICAL

ADVECTION OF TRACERS
COEFFICIENT FOR DIFFUSION OF TRACERS
DIFFUSION OF TRACERS
IMPLICITATION COEFFICIENT OF TRACERS
MASS-LUMPING ON TRACERS
OPTION FOR THE DIFFUSION OF TRACERS
SCHEME FOR ADVECTION OF TRACERS
SCHEME OPTION FOR ADVECTION OF TRACERS

2.11.6 SETTING

DENSITY EFFECTS
INITIAL VALUES OF TRACERS
MEAN TEMPERATURE
NAMES OF TRACERS
NUMBER OF TRACERS

2.11.7 SOLVER TRA

PRECONDITIONING FOR DIFFUSION OF TRACERS
SOLVER FOR DIFFUSION OF TRACERS
SOLVER OPTION FOR TRACERS DIFFUSION

2.11.8 SOURCES TRA

VALUES OF THE TRACERS AT THE SOURCES

2.12 TURBULENCE

ACCURACY OF SPALART-ALLMARAS
INFORMATION ABOUT SPALART-ALLMARAS MODEL
TURBULENCE MODEL
VELOCITY DIFFUSIVITY

2.12.1 ACCURACY

ACCURACY OF EPSILON
ACCURACY OF K
MAXIMUM NUMBER OF ITERATIONS FOR K AND EPSILON

2.12.2 ADVANCED

ADVECTION OF K AND EPSILON
INFORMATION ABOUT K-EPSILON MODEL
NON-DIMENSIONAL DISPERSION COEFFICIENTS
SCHEME FOR ADVECTION OF K-EPSILON

SCHEME OPTION FOR ADVECTION OF K-EPSILON
TIME STEP REDUCTION FOR K-EPSILON MODEL
TURBULENCE REGIME FOR SOLID BOUNDARIES

2.12.3 SOLVER INFO

OPTION FOR THE SOLVER FOR K-EPSILON MODEL
PRECONDITIONING FOR K-EPSILON MODEL
SOLVER FOR K-EPSILON MODEL

3. glossary

3.1 english/french glossary

ABSCISSAE OF SOURCES	ABSCISSES DES SOURCES
ACCURACY FOR DIFFUSION OF TRACERS	PRECISION POUR LA DIFFUSION DES TRACEURS
ACCURACY OF EPSILON	PRECISION SUR EPSILON
ACCURACY OF K	PRECISION SUR K
ACCURACY OF SPALART-ALLMARAS	PRECISION SUR SPALART-ALLMARAS
AD LINEAR SOLVER DERIVATIVE CONVERGENCE	AD CONVERGENCE DES DERIVEES POUR LE SOLVEUR LINEAIRE
AD LINEAR SOLVER RESET DERIVATIVES	AD REMISE A ZERO DES DERIVEES DU SOLVEUR LINEAIRE
AD NAMES OF DERIVATIVES	AD NOMS DES DERIVEES
AD NUMBER OF DERIVATIVES	AD NOMBRE DE DERIVEES
AD SYMBOLIC LINEAR SOLVER	AD SOLVEUR LINEAIRE SYMBOLIQUE
ADVECTION	CONVECTION
ADVECTION OF H	CONVECTION DE H
ADVECTION OF K AND EPSILON	CONVECTION DE K ET EPSILON
ADVECTION OF TRACERS	CONVECTION DES TRACEURS
ADVECTION OF U AND V	CONVECTION DE U ET V
AIR PRESSURE	PRESSION ATMOSPHERIQUE
ALGAE TRANSPORT MODEL	MODELE DE TRANSPORT DES ALGUES
ALGAE TYPE	TYPE DES ALGUES
ANTECEDENT MOISTURE CONDITIONS	CONDITIONS D'HUMIDITE PRECEDENTE
ASCII ATMOSPHERIC DATA FILE	FICHIER ASCII DE DONNEES ATMOSPHERIQUES
ASCII DATABASE FOR TIDE	BASE ASCII DE DONNEES DE MAREE
BINARY ATMOSPHERIC DATA FILE	FICHIER BINAIRE DE DONNEES ATMOSPHERIQUES
BINARY ATMOSPHERIC DATA FILE FORMAT	FORMAT DU FICHIER BINAIRE DE DONNEES ATMOSPHERIQUES
BINARY DATA FILE 1	FICHIER DE DONNEES BINAIRE 1

BINARY DATA FILE 1 FORMAT	FORMAT DU FICHIER DE DONNEES BINAIRE 1
BINARY DATA FILE 2	FICHIER DE DONNEES BINAIRE 2
BINARY DATA FILE 2 FORMAT	FORMAT DU FICHIER DE DONNEES BINAIRE 2
BINARY DATABASE 1 FOR TIDE	BASE BINAIRE 1 DE DONNEES DE MAREE
BINARY DATABASE 2 FOR TIDE	BASE BINAIRE 2 DE DONNEES DE MAREE
BINARY RESULTS FILE	FICHIER DE RESULTATS BINAIRE
BINARY RESULTS FILE FORMAT	FORMAT DU FICHIER DE RESULTATS BINAIRE
BOTTOM SMOOTHINGS	LISSAGES DU FOND
BOTTOM SURFACES DELWAQ FILE	FICHIER DELWAQ DES SURFACES DU FOND
BOTTOM TOPOGRAPHY FILE	FICHIER DES FONDS
BOUNDARY CONDITIONS FILE	FICHIER DES CONDITIONS AUX LIMITES
BREACH	BRECHE
BREACHES DATA FILE	FICHIER DE DONNEES DES BRECHES
C-U PRECONDITIONING	PRECONDITIONNEMENT C-U
CHECKING THE MESH	VERIFICATION DU MAILLAGE
COEFFICIENT 1 FOR LAW OF TRACERS DEGRADATION	COEFFICIENT 1 DE LA LOI DE DEGRADATION DES TRACEURS
COEFFICIENT FOR DIFFUSION OF TRACERS	COEFFICIENT DE DIFFUSION DES TRACEURS
COEFFICIENT OF WIND INFLUENCE	COEFFICIENT D'INFLUENCE DU VENT
COEFFICIENT TO CALIBRATE SEA LEVEL	COEFFICIENT DE CALAGE DU NIVEAU DE MER
COEFFICIENT TO CALIBRATE TIDAL RANGE	COEFFICIENT DE CALAGE DU MARNAGE
COEFFICIENT TO CALIBRATE TIDAL VELOCITIES	COEFFICIENT DE CALAGE DES VITESSES DE COURANT
COMPATIBLE COMPUTATION OF FLUXES	CALCUL COMPATIBLE DES FLUX
COMPUTATION CONTINUED	SUITE DE CALCUL
CONTINUITY CORRECTION	CORRECTION DE CONTINUITE
CONTROL OF LIMITS	CONTROLE DES LIMITES
CONTROL SECTIONS	SECTIONS DE CONTROLE
CONVERGENCE STUDY	ETUDE DE CONVERGENCE
CORIOLIS	CORIOLIS
CORIOLIS COEFFICIENT	COEFFICIENT DE CORIOLIS
COST FUNCTION	FONCTION COUT
COUPLING DIRECTORY	DOSSIER DE COUPLAGE
COUPLING PERIOD FOR SISYPHE	PERIODE DE COUPLAGE POUR SISYPHE

COUPLING PERIOD FOR TOMAWAC	PERIODE DE COUPLAGE POUR TOMAWAC
COUPLING WITH	COUPLAGE AVEC
CULVERTS DATA FILE	FICHIER DE DONNEES DES BUSES
DEBUGGER	DEBUGGER
DEFAULT EXECUTABLE	EXECUTABLE PAR DEFAUT
DEFAULT PARALLEL EXECUTABLE	EXECUTABLE PARALLELE PAR DEFAUT
DEFINITION OF ZONES	DEFINITION DE ZONES
DELWAQ PRINTOUT PERIOD	PERIODE DE SORTIE POUR DELWAQ
DELWAQ STEERING FILE	FICHIER DE COMMANDE DELWAQ
DENSITY EFFECTS	EFFETS DE DENSITE
DENSITY OF ALGAE	MASSE VOLUMIQUE DES ALGUES
DEPTH IN FRICTION TERMS	HAUTEUR DANS LES TERMES DE FROTTEMENT
DESCRIPTION OF LIBRARIES	DESCRIPTION DES LIBRAIRIES
DESIRED COURANT NUMBER	NOMBRE DE COURANT SOUHAITE
DIAMETER OF ALGAE	DIAMETRE DES ALGUES
DIAMETER OF ROUGHNESS ELEMENTS	DIAMETRE DES ELEMENTS DE FROTTEMENT
DICTIONARY	DICTIONNAIRE
DIFFUSION OF TRACERS	DIFFUSION DES TRACEURS
DIFFUSION OF VELOCITY	DIFFUSION DES VITESSES
DIFFUSIVITY DELWAQ FILE	FICHIER DELWAQ DE LA DIFFUSION
DIFFUSIVITY FOR DELWAQ	DIFFUSION POUR DELWAQ
DISCRETIZATIONS IN SPACE	DISCRETISATIONS EN ESPACE
DISSIPATION COEFFICIENT FOR SECONDARY CURRENTS	COEFFICIENT DE DISSIPATION POUR COURANTS SECONDAIRES
DROGUES FILE	FICHIER DES FLOTTEURS
DURATION	DUREE DU CALCUL
DURATION OF RAIN OR EVAPORATION IN HOURS	DUREE DE LA PLUIE OU EVAPORATION EN HEURES
ELEMENTS MASKED BY USER	ELEMENTS MASQUES PAR L'UTILISATEUR
EQUATIONS	EQUATIONS
EXCHANGE AREAS DELWAQ FILE	FICHIER DELWAQ DES SURFACES DE FLUX
EXCHANGES BETWEEN NODES DELWAQ FILE	FICHIER DELWAQ DES ECHANGES ENTRE NOEUDS
FINITE ELEMENT ASSEMBLY	ASSEMBLAGE EN ELEMENTS FINIS
FINITE VOLUME SCHEME	SCHEMA EN VOLUMES FINIS
FLUXLINE	FLUXLINE
FLUXLINE INPUT FILE	FICHIER DE FLUXLINE
FORMATTED DATA FILE 1	FICHIER DE DONNEES FORMATE 1
FORMATTED DATA FILE 2	FICHIER DE DONNEES FORMATE 2
FORMATTED RESULTS FILE	FICHIER DE RESULTATS FORMATE
FORTRAN FILE	FICHIER FORTRAN
FOURIER ANALYSIS PERIODS	PERIODES D'ANALYSE DE FOURIER

FREE SURFACE GRADIENT COMPATIBILITY	COMPATIBILITE DU GRADIENT DE SURFACE LIBRE
FRICTION COEFFICIENT	COEFFICIENT DE FROTTEMENT
FRICTION DATA	DONNEES POUR LE FROTTEMENT
FRICTION DATA FILE	FICHIER DE DONNEES POUR LE FROTTEMENT
GEOGRAPHIC SYSTEM	SYSTEME GEOGRAPHIQUE
GEOMETRY FILE	FICHIER DE GEOMETRIE
GEOMETRY FILE FORMAT	FORMAT DU FICHIER DE GEOMETRIE
GLOBAL NUMBER OF THE POINT TO CALIBRATE HIGH WATER	NUMERO GLOBAL DU POINT POUR CALER LA PLEINE MER
GLOBAL NUMBERS OF SOURCE NODES	NUMEROS GLOBAUX DES NOEUDS DES SOURCES
GRAPHIC PRINTOUT PERIOD	PERIODE POUR LES SORTIES GRAPHIQUES
GRAVITY ACCELERATION	ACCELERATION DE LA PESANTEUR
H CLIPPING	CLIPPING DE H
HARMONIC CONSTANTS FILE	FICHIER DES CONSTANTES HARMONIQUES
ICE PROCESSES	PROCESSUS LIES AUX GLACES
IDENTIFICATION METHOD	METHODE D'IDENTIFICATION
IMPLICITATION COEFFICIENT OF TRACERS	COEFFICIENT D'IMPLICITATION DES TRACEURS
IMPLICITATION FOR DEPTH	IMPLICITATION POUR LA HAUTEUR
IMPLICITATION FOR DIFFUSION OF VELOCITY	IMPLICITATION POUR LA DIFFUSION DES VITESSES
IMPLICITATION FOR VELOCITY	IMPLICITATION POUR LA VITESSE
INFORMATION ABOUT K-EPSILON MODEL	INFORMATIONS SUR LE MODELE K-EPSILON
INFORMATION ABOUT SOLVER	INFORMATIONS SUR LE SOLVEUR
INFORMATION ABOUT SPALART-ALLMARAS MODEL	INFORMATION SUR LE MODELE SPALART-ALLMARAS
INITIAL CONDITIONS	CONDITIONS INITIALES
INITIAL DEPTH	HAUTEUR INITIALE
INITIAL ELEVATION	COTE INITIALE
INITIAL GUESS FOR H	ORDRE DU TIR INITIAL POUR H
INITIAL GUESS FOR U	ORDRE DU TIR INITIAL POUR U
INITIAL TIME SET TO ZERO	REMISE A ZERO DU TEMPS
INITIAL VALUES OF TRACERS	VALEURS INITIALES DES TRACEURS
LAMBERT 93 CONVERSION FILE	FICHIER DE CONVERSION LAMBERT 93
LANGUAGE	LANGUE
LATITUDE OF ORIGIN POINT	LATITUDE DU POINT ORIGINE
LAW OF BOTTOM FRICTION	LOI DE FROTTEMENT SUR LE FOND
LAW OF FRICTION ON LATERAL BOUNDARIES	LOI DE FROTTEMENT SUR LES PAROIS LATERALES
LAW OF TRACERS DEGRADATION	LOI DE DEGRADATION DES TRACEURS

LIMIT VALUES	VALEURS LIMITES
LINEARIZED PROPAGATION	PROPAGATION LINEARISEE
LIQUID BOUNDARIES FILE	FICHIER DES FRONTIERES LIQUIDES
LIST OF FILES	LISTE DES FICHIERS
LIST OF POINTS	LISTE DE POINTS
LISTING FOR PRINTOUT PERIOD	PERIODE POUR LES SORTIES LISTING
LISTING PRINTOUT	SORTIE LISTING
LISTING PRINTOUT PERIOD	PERIODE DE SORTIE LISTING
LOCAL NUMBER OF THE POINT TO CALIBRATE HIGH WATER	NUMERO LOCAL DU POINT POUR CALER LA PLEINE MER
LONGITUDE OF ORIGIN POINT	LONGITUDE DU POINT ORIGINE
MANNING DEFAULT VALUE FOR COLEBROOK-WHITE LAW	VALEUR PAR DEFAUT DU MANNING POUR LA LOI DE COLEBROOK-WHITE
MASS-BALANCE	BILAN DE MASSE
MASS-LUMPING FOR WEAK CHARACTERISTICS	MASS-LUMPING POUR LES CARACTERISTIQUES FAIBLES
MASS-LUMPING ON H	MASS-LUMPING SUR H
MASS-LUMPING ON TRACERS	MASS-LUMPING SUR LES TRACEURS
MASS-LUMPING ON VELOCITY	MASS-LUMPING SUR LA VITESSE
MATRIX STORAGE	STOCKAGE DES MATRICES
MATRIX-VECTOR PRODUCT	PRODUIT MATRICE-VECTEUR
MAXIMUM NUMBER OF BOUNDARIES	NOMBRE MAXIMUM DE FRONTIERES
MAXIMUM NUMBER OF FRICTION DOMAINS	NOMBRE MAXIMUM DE DOMAINES DE FROTTEMENT
MAXIMUM NUMBER OF ITERATIONS FOR ADVECTION SCHEMES	MAXIMUM D'ITERATIONS POUR LES SCHEMAS DE CONVECTION
MAXIMUM NUMBER OF ITERATIONS FOR DIFFUSION OF TRACERS	MAXIMUM D'ITERATIONS POUR LA DIFFUSION DES TRACEURS
MAXIMUM NUMBER OF ITERATIONS FOR IDENTIFICATION	MAXIMUM D'ITERATIONS POUR L'IDENTIFICATION
MAXIMUM NUMBER OF ITERATIONS FOR K AND EPSILON	MAXIMUM D'ITERATIONS POUR K ET EPSILON
MAXIMUM NUMBER OF ITERATIONS FOR SOLVER	MAXIMUM D'ITERATIONS POUR LE SOLVEUR
MAXIMUM NUMBER OF SOURCES	NOMBRE MAXIMUM DE SOURCES
MAXIMUM NUMBER OF TRACERS	NOMBRE MAXIMUM DE TRACEURS
MEAN DEPTH FOR LINEARIZATION	PROFONDEUR MOYENNE POUR LA LINEARISATION
MEAN TEMPERATURE	TEMPERATURE MOYENNE
MINIMUM VALUE OF DEPTH	VALEUR MINIMUM DE H
MINOR CONSTITUENTS INFERENCE	INTERPOLATION DE COMPOSANTES MINEURES
NAMES OF CLANDESTINE VARIABLES	NOMS DES VARIABLES CLANDESTINES
NAMES OF POINTS	NOMS DES POINTS
NAMES OF PRIVATE VARIABLES	NOMS DES VARIABLES PRIVEES
NAMES OF TRACERS	NOMS DES TRACEURS

NEWMARK TIME INTEGRATION COEFFICIENT	COEFFICIENT D'INTEGRATION EN TEMPS DE NEWMARK
NODES DISTANCES DELWAQ FILE	FICHIER DELWAQ DES DISTANCES ENTRE NOEUDS
NON-DIMENSIONAL DISPERSION COEFFICIENTS	COEFFICIENTS ADIMENSIONNELS DE DISPERSION
NON-SUBMERGED VEGETATION FRICTION	FROTTEMENT POUR LA VEGETATION NON SUBMERGEE
NORTH	NORD
NUMBER OF CORRECTIONS OF DISTRIBUTIVE SCHEMES	NOMBRE DE CORRECTIONS DES SCHEMAS DISTRIBUTIFS
NUMBER OF CULVERTS	NOMBRE DE BUSES
NUMBER OF DROGUES	NOMBRE DE FLOTTEURS
NUMBER OF FIRST TIME STEP FOR GRAPHIC PRINTOUTS	NUMERO DU PREMIER PAS DE TEMPS POUR LES SORTIES GRAPHIQUES
NUMBER OF FIRST TIME STEP FOR LISTING PRINTOUTS	NUMERO DU PREMIER PAS DE TEMPS POUR LES SORTIES LISTING
NUMBER OF GAUSS POINTS FOR WEAK CHARACTERISTICS	NOMBRE DE POINTS DE GAUSS POUR LES CARACTERISTIQUES FAIBLES
NUMBER OF LAGRANGIAN DRIFTS	NOMBRE DE DERIVES LAGRANGIENNES
NUMBER OF PRIVATE ARRAYS	NOMBRE DE TABLEAUX PRIVES
NUMBER OF SIPHONS	NOMBRE DE SIPHONS
NUMBER OF SUB-ITERATIONS FOR NON-LINEARITIES	NOMBRE DE SOUS-ITERATIONS POUR LES NON-LINEARITES
NUMBER OF SUB-STEPS OF DISTRIBUTIVE SCHEMES	NOMBRE DE SOUS-PAS DES SCHEMAS DISTRIBUTIFS
NUMBER OF TIME STEPS	NOMBRE DE PAS DE TEMPS
NUMBER OF TRACERS	NOMBRE DE TRACEURS
NUMBER OF WEIRS	NOMBRE DE SEUILS
OIL SPILL MODEL	MODELE DE NAPPES D'HYDROCARBURES
OIL SPILL STEERING FILE	FICHIER DE COMMANDES HYDROCARBURES
OPTION FOR CHARACTERISTICS	OPTION POUR LES CARACTERISTIQUES
OPTION FOR CULVERTS	OPTION POUR LES BUSES
OPTION FOR INITIAL ABSTRACTION RATIO	OPTION POUR RATIO DES PERTES INITIALES
OPTION FOR LIQUID BOUNDARIES	OPTION POUR LES FRONTIERES LIQUIDES
OPTION FOR THE DIFFUSION OF TRACERS	OPTION POUR LA DIFFUSION DES TRACEURS
OPTION FOR THE DIFFUSION OF VELOCITIES	OPTION POUR LA DIFFUSION DES VITESSES
OPTION FOR THE SOLVER FOR K-EPSILON MODEL	OPTION DU SOLVEUR POUR LE MODELE K-EPSILON

OPTION FOR THE TREATMENT OF TIDAL FLATS	OPTION DE TRAITEMENT DES BANCS DECOUVRANTS
OPTION FOR TIDAL BOUNDARY CONDITIONS	OPTION POUR LES CONDITIONS AUX LIMITES DE MAREE
OPTION FOR TSUNAMI GENERATION	OPTION POUR LA GENERATION DE TSUNAMI
OPTION FOR WIND	OPTION DU VENT
OPTION OF THE HYDROSTATIC RECONSTRUCTION	OPTION DE LA RECONSTRUCION HYDROSTATIQUE
ORDINATES OF SOURCES	ORDONNEES DES SOURCES
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 ESTIMATION	ESTIMATION DE PARAMETRE
PARTITIONING TOOL	PARTITIONNEUR
PHYSICAL CHARACTERISTICS OF THE TSUNAMI	PARAMETRES PHYSIQUES DU TSUNAMI
PRECONDITIONING	PRECONDITIONNEMENT
PRECONDITIONING FOR DIFFUSION OF TRACERS	PRECONDITIONNEMENT POUR LA DIFFUSION DES TRACEURS
PRECONDITIONING FOR K-EPSILON MODEL	PRECONDITIONNEMENT POUR LE MODELE K-EPSILON
PRESCRIBED ELEVATIONS	COTES IMPOSEES
PRESCRIBED FLOWRATES	DEBITS IMPOSES
PRESCRIBED TRACERS VALUES	VALEURS IMPOSEES DES TRACEURS
PRESCRIBED VELOCITIES	VITESSES IMPOSEES
PREVIOUS COMPUTATION FILE	FICHIER DU CALCUL PRECEDENT
PREVIOUS COMPUTATION FILE FORMAT	FORMAT DU FICHIER DU CALCUL PRECEDENT
PRINTING CUMULATED FLOWRATES	IMPRESSION DU CUMUL DES FLUX
PRINTOUT PERIOD FOR DROGUES	PERIODE POUR LES SORTIES DE FLOTTEURS
PRODUCTION COEFFICIENT FOR SECONDARY CURRENTS	COEFFICIENT DE PRODUCTION POUR COURANTS SECONDAIRES
PROPAGATION	PROPAGATION
PROPAGATION OPTION	OPTION DE PROPAGATION
PSI SCHEME OPTION	OPTION DU SCHEMA PSI
RAIN OR EVAPORATION	PLUIE OU EVAPORATION
RAIN OR EVAPORATION IN MM PER DAY	PLUIE OU EVAPORATION EN MM PAR JOUR
RAINFALL-RUNOFF MODEL	MODELE PLUIE-DEBIT
RECORD NUMBER FOR RESTART	ENREGISTREMENT POUR SUITE DE CALCUL
RECORD NUMBER IN WAVE FILE	NUMERO DE L'ENREGISTREMENT DANS LE FICHIER DE HOULE
REFERENCE FILE	FICHIER DE REFERENCE

REFERENCE FILE FORMAT	FORMAT DU FICHIER DE REFERENCE
REFINEMENT LEVELS	NIVEAUX DE RAFFINEMENT
RELEASE	NUMERO DE VERSION
RESULT FILE IN LONGITUDE-LATITUDE	FICHIER RESULTAT EN LONGITUDE-LATITUDE
RESULTS FILE	FICHIER DES RESULTATS
RESULTS FILE FORMAT	FORMAT DU FICHIER DES RESULTATS
RICE2D STEERING FILE	FICHIER DES PARAMETRES DE RICE2D
ROUGHNESS COEFFICIENT OF BOUNDARIES	COEFFICIENT DE RUGOSITE DES BORDS
SALINITY DELWAQ FILE	FICHIER DELWAQ DE LA SALINITE
SALINITY FOR DELWAQ	SALINITE POUR DELWAQ
SCHEME FOR ADVECTION OF K-EPSILON	SCHEMA POUR LA CONVECTION DU K-EPSILON
SCHEME FOR ADVECTION OF TRACERS	SCHEMA POUR LA CONVECTION DES TRACEURS
SCHEME FOR ADVECTION OF VELOCITIES	SCHEMA POUR LA CONVECTION DES VITESSES
SCHEME OPTION FOR ADVECTION OF K-EPSILON	OPTION DU SCHEMA POUR LA CONVECTION DU K-EPSILON
SCHEME OPTION FOR ADVECTION OF TRACERS	OPTION DU SCHEMA POUR LA CONVECTION DES TRACEURS
SCHEME OPTION FOR ADVECTION OF VELOCITIES	OPTION DU SCHEMA POUR LA CONVECTION DES VITESSES
SECONDARY CURRENTS	COURANTS SECONDAIRES
SECTIONS INPUT FILE	FICHIER DES SECTIONS DE CONTROLE
SECTIONS OUTPUT FILE	FICHIER DE SORTIE DES SECTIONS DE CONTROLE
SIPHONS DATA FILE	FICHIER DE DONNEES DES SIPHONS
SISYPHE STEERING FILE	FICHIER DES PARAMETRES DE SISYPHE
SOLVER	SOLVEUR
SOLVER ACCURACY	PRECISION DU SOLVEUR
SOLVER FOR DIFFUSION OF TRACERS	SOLVEUR POUR LA DIFFUSION DES TRACEURS
SOLVER FOR K-EPSILON MODEL	SOLVEUR POUR LE MODELE K-EPSILON
SOLVER OPTION	OPTION DU SOLVEUR
SOLVER OPTION FOR TRACERS DIFFUSION	OPTION DU SOLVEUR POUR LA DIFFUSION DES TRACEURS
SOURCES FILE	FICHIER DES SOURCES
SPACING OF ROUGHNESS ELEMENTS	ESPACEMENT DES ELEMENTS DE FROTTEMENT
SPATIAL PROJECTION TYPE	TYPE DE PROJECTION SPATIALE
SPEED AND DIRECTION OF WIND	VITESSE ET DIRECTION DU VENT

SPHERICAL COORDINATES	COORDONNEES SPHERIQUES
STAGE-DISCHARGE CURVES	COURBES DE TARAGE
STAGE-DISCHARGE CURVES FILE	FICHIER DES COURBES DE TARAGE
STEERING FILE	FICHIER DES PARAMETRES
STOCHASTIC DIFFUSION MODEL	MODELE DE DIFFUSION STOCHASTIQUE
STOP CRITERIA	CRITERES D'ARRET
STOP IF A STEADY STATE IS REACHED	ARRET SI UN ETAT PERMANENT EST ATTEINT
SUPG OPTION	OPTION DE SUPG
TEMPERATURE DELWAQ FILE	FICHIER DELWAQ DE LA TEMPERATURE
TEMPERATURE FOR DELWAQ	TEMPERATURE POUR DELWAQ
THICKNESS OF ALGAE	EPAISSEUR DES ALGUES
THRESHOLD DEPTH FOR RECEDING PROCEDURE	PROFONDEUR LIMITE POUR PROCEDURE DE RESSUYAGE
THRESHOLD DEPTH FOR WIND	PROFONDEUR LIMITE POUR LE VENT
THRESHOLD FOR NEGATIVE DEPTHS	SEUIL POUR LES PROFONDEURS NEGATIVES
TIDAL DATA BASE	BASE DE DONNEES DE MAREE
TIDAL FLATS	BANCS DECOUVRANTS
TIDAL MODEL FILE	FICHIER DU MODELE DE MAREE
TIDAL MODEL FILE FORMAT	FORMAT DU FICHIER DU MODELE DE MAREE
TIDE GENERATING FORCE	FORCE GENERATRICE DE LA MAREE
TIME RANGE FOR FOURIER ANALYSIS	BORNES EN TEMPS POUR L'ANALYSE DE FOURIER
TIME STEP	PAS DE TEMPS
TIME STEP REDUCTION FOR K-EPSILON MODEL	REDUCTION DU PAS DE TEMPS POUR LE MODELE K-EPSILON
TITLE	TITRE
TOLERANCES FOR IDENTIFICATION	PRECISIONS POUR L'IDENTIFICATION
TOMAWAC STEERING FILE	FICHIER DES PARAMETRES DE TOMAWAC
TREATMENT OF FLUXES AT THE BOUNDARIES	TRAITEMENT DES FLUX AUX FRONTIERES
TREATMENT OF NEGATIVE DEPTHS	TRAITEMENT DES HAUTEURS NEGATIVES
TREATMENT OF THE LINEAR SYSTEM	TRAITEMENT DU SYSTEME LINEAIRE
TURBULENCE MODEL	MODELE DE TURBULENCE
TURBULENCE REGIME FOR SOLID BOUNDARIES	REGIME DE TURBULENCE POUR LES PAROIS
TYPE OF ADVECTION	FORME DE LA CONVECTION
TYPE OF SOURCES	TYPE DES SOURCES
TYPE OF WEIRS	TYPE DES SEUILS
UPWIND COEFFICIENTS	COEFFICIENTS DE DECENTREMENT

VALIDATION	VALIDATION
VALUE OF ATMOSPHERIC PRESSURE	VALEUR DE LA PRESSION ATMOSPHERIQUE
VALUES OF THE TRACERS AT THE SOURCES	VALEURS DES TRACEURS DES SOURCES
VALUES OF TRACERS IN THE RAIN	VALEURS DES TRACEURS DANS LA PLUIE
VARIABLE TIME-STEP	PAS DE TEMPS VARIABLE
VARIABLES FOR GRAPHIC PRINTOUTS	VARIABLES POUR LES SORTIES GRAPHIQUES
VARIABLES TO BE PRINTED	VARIABLES A IMPRIMER
VECTOR LENGTH	LONGUEUR DU VECTEUR
VELOCITIES OF THE SOURCES ALONG X	VITESSES DES SOURCES SELON X
VELOCITIES OF THE SOURCES ALONG Y	VITESSES DES SOURCES SELON Y
VELOCITY DELWAQ FILE	FICHIER DELWAQ DE LA VITESSE
VELOCITY DIFFUSIVITY	COEFFICIENT DE DIFFUSION DES VITESSES
VELOCITY FOR DELWAQ	VITESSE POUR DELWAQ
VELOCITY PROFILES	PROFILS DE VITESSE
VERTICAL FLUXES DELWAQ FILE	FICHIER DELWAQ DES FLUX VERTICAUX
VERTICAL STRUCTURES	STRUCTURES VERTICALES
VOLUMES DELWAQ FILE	FICHIER DELWAQ DES VOLUMES
WAQTEL STEERING FILE	FICHIER DES PARAMETRES DE WAQTEL
WATER DENSITY	MASSE VOLUMIQUE DE L'EAU
WATER DISCHARGE OF SOURCES	DEBITS DES SOURCES
WATER QUALITY PROCESS	PROCESSUS QUALITE D'EAU
WAVE DRIVEN CURRENTS	COURANTS DE HOULE
WAVE ENHANCED FRICTION FACTOR	AUGMENTATION DU FROTTEMENT PAR LA HOULE
WEIRS DATA FILE	FICHIER DE DONNEES DES SEUILS
WIND	VENT
WIND VELOCITY ALONG X	VITESSE DU VENT SUIVANT X
WIND VELOCITY ALONG Y	VITESSE DU VENT SUIVANT Y
ZERO	ZERO
ZONE NUMBER IN GEOGRAPHIC SYSTEM	NUMERO DE FUSEAU OU PROJECTION DANS LE SYSTEME GEOGRAPHIQUE
ZONES FILE	FICHIER DES ZONES

3.2 French/English glossary

ABSCISSES DES SOURCES	ABSCISSAE OF SOURCES
ACCELERATION DE LA PESANTEUR	GRAVITY ACCELERATION
AD CONVERGENCE DES DERIVEES POUR LE SOLVEUR LINEAIRE	AD LINEAR SOLVER DERIVATIVE CONVERGENCE

AD NOMBRE DE DERIVEES	AD NUMBER OF DERIVATIVES
AD NOMS DES DERIVEES	AD NAMES OF DERIVATIVES
AD REMISE A ZERO DES DERIVEES DU SOLVEUR LINEAIRE	AD LINEAR SOLVER RESET DERIVATIVES
AD SOLVEUR LINEAIRE SYMBOLIQUE	AD SYMBOLIC LINEAR SOLVER
ARRET SI UN ETAT PERMANENT EST ATTEINT	STOP IF A STEADY STATE IS REACHED
ASSEMBLAGE EN ELEMENTS FINIS	FINITE ELEMENT ASSEMBLY
AUGMENTATION DU FROTTEMENT PAR LA HOULE	WAVE ENHANCED FRICTION FACTOR
BANCS DECOUVRANTS	TIDAL FLATS
BASE ASCII DE DONNEES DE MAREE	ASCII DATABASE FOR TIDE
BASE BINAIRE 1 DE DONNEES DE MAREE	BINARY DATABASE 1 FOR TIDE
BASE BINAIRE 2 DE DONNEES DE MAREE	BINARY DATABASE 2 FOR TIDE
BASE DE DONNEES DE MAREE	TIDAL DATA BASE
BILAN DE MASSE	MASS-BALANCE
BORNES EN TEMPS POUR L'ANALYSE DE FOURIER	TIME RANGE FOR FOURIER ANALYSIS
BRECHE	BREACH
CALCUL COMPATIBLE DES FLUX	COMPATIBLE COMPUTATION OF FLUXES
CLIPPING DE H	H CLIPPING
COEFFICIENT 1 DE LA LOI DE DEGRADATION DES TRACEURS	COEFFICIENT 1 FOR LAW OF TRACERS DEGRADATION
COEFFICIENT D'IMPLICITATION DES TRACEURS	IMPLICITATION COEFFICIENT OF TRACERS
COEFFICIENT D'INFLUENCE DU VENT	COEFFICIENT OF WIND INFLUENCE
COEFFICIENT D'INTEGRATION EN TEMPS DE NEWMARK	NEWMARK TIME INTEGRATION COEFFICIENT
COEFFICIENT DE CALAGE DES VITESSES DE COURANT	COEFFICIENT TO CALIBRATE TIDAL VELOCITIES
COEFFICIENT DE CALAGE DU MARNAGE	COEFFICIENT TO CALIBRATE TIDAL RANGE
COEFFICIENT DE CALAGE DU NIVEAU DE MER	COEFFICIENT TO CALIBRATE SEA LEVEL
COEFFICIENT DE CORIOLIS	CORIOLIS COEFFICIENT
COEFFICIENT DE DIFFUSION DES TRACEURS	COEFFICIENT FOR DIFFUSION OF TRACERS
COEFFICIENT DE DIFFUSION DES VITESSES	VELOCITY DIFFUSIVITY
COEFFICIENT DE DISSIPATION POUR COURANTS SECONDAIRES	DISSIPATION COEFFICIENT FOR SECONDARY CURRENTS
COEFFICIENT DE FROTTEMENT	FRICTION COEFFICIENT
COEFFICIENT DE PRODUCTION POUR COURANTS SECONDAIRES	PRODUCTION COEFFICIENT FOR SECONDARY CURRENTS

COEFFICIENT DE RUGOSITE DES BORDS	ROUGHNESS COEFFICIENT OF BOUNDARIES
COEFFICIENTS ADIMENSIONNELS DE DISPERSION	NON-DIMENSIONAL DISPERSION COEFFICIENTS
COEFFICIENTS DE DECENTREMENT	UPWIND COEFFICIENTS
COMPATIBILITE DU GRADIENT DE SURFACE LIBRE	FREE SURFACE GRADIENT COMPATIBILITY
CONDITIONS D'HUMIDITE PRECEDENTE	ANTECEDENT MOISTURE CONDITIONS
CONDITIONS INITIALES	INITIAL CONDITIONS
CONTROLE DES LIMITES	CONTROL OF LIMITS
CONVECTION	ADVECTION
CONVECTION DE H	ADVECTION OF H
CONVECTION DE K ET EPSILON	ADVECTION OF K AND EPSILON
CONVECTION DE U ET V	ADVECTION OF U AND V
CONVECTION DES TRACEURS	ADVECTION OF TRACERS
COORDONNEES DE L'ORIGINE	ORIGIN COORDINATES
COORDONNEES SPHERIQUES	SPHERICAL COORDINATES
CORIOLIS	CORIOLIS
CORRECTION DE CONTINUITE	CONTINUITY CORRECTION
COTE INITIALE	INITIAL ELEVATION
COTES IMPOSEES	PRESCRIBED ELEVATIONS
COUPLAGE AVEC	COUPLING WITH
COURANTS DE HOULE	WAVE DRIVEN CURRENTS
COURANTS SECONDAIRES	SECONDARY CURRENTS
COURBES DE TARAGE	STAGE-DISCHARGE CURVES
CRITERES D'ARRET	STOP CRITERIA
DATE DE L'ORIGINE DES TEMPS	ORIGINAL DATE OF TIME
DEBITS DES SOURCES	WATER DISCHARGE OF SOURCES
DEBITS IMPOSES	PRESCRIBED FLOWRATES
DEBUGGER	DEBUGGER
DEFINITION DE ZONES	DEFINITION OF ZONES
DESCRIPTION DES LIBRAIRIES	DESCRIPTION OF LIBRARIES
DIAMETRE DES ALGUES	DIAMETER OF ALGAE
DIAMETRE DES ELEMENTS DE FROTTEMENT	DIAMETER OF ROUGHNESS ELEMENTS
DICTIONNAIRE	DICTIONARY
DIFFUSION DES TRACEURS	DIFFUSION OF TRACERS
DIFFUSION DES VITESSES	DIFFUSION OF VELOCITY
DIFFUSION POUR DELWAQ	DIFFUSIVITY FOR DELWAQ
DISCRETISATIONS EN ESPACE	DISCRETIZATIONS IN SPACE
DONNEES POUR LE FROTTEMENT	FRICTION DATA
DOSSIER DE COUPLAGE	COUPLING DIRECTORY
DUREE DE LA PLUIE OU EVAPORATION EN HEURES	DURATION OF RAIN OR EVAPORATION IN HOURS
DUREE DU CALCUL	DURATION
EFFETS DE DENSITE	DENSITY EFFECTS

ELEMENTS MASQUES PAR L'UTILISATEUR	ELEMENTS MASKED BY USER
ENREGISTREMENT POUR SUITE DE CALCUL	RECORD NUMBER FOR RESTART
EPAISSEUR DES ALGUES	THICKNESS OF ALGAE
EQUATIONS	EQUATIONS
ESPACEMENT DES ELEMENTS DE FROTTEMENT	SPACING OF ROUGHNESS ELEMENTS
ESTIMATION DE PARAMETRE	PARAMETER ESTIMATION
ETUDE DE CONVERGENCE	CONVERGENCE STUDY
EXECUTABLE PAR DEFAUT	DEFAULT EXECUTABLE
EXECUTABLE PARALLELE PAR DEFAUT	DEFAULT PARALLEL EXECUTABLE
FICHIER ASCII DE DONNEES ATMOSPHERIQUES	ASCII ATMOSPHERIC DATA FILE
FICHIER BINAIRE DE DONNEES ATMOSPHERIQUES	BINARY ATMOSPHERIC DATA FILE
FICHIER DE COMMANDE DELWAQ	DELWAQ STEERING FILE
FICHIER DE COMMANDES HYDROCARBURES	OIL SPILL STEERING FILE
FICHIER DE CONVERSION LAMBERT 93	LAMBERT 93 CONVERSION FILE
FICHIER DE DONNEES BINAIRE 1	BINARY DATA FILE 1
FICHIER DE DONNEES BINAIRE 2	BINARY DATA FILE 2
FICHIER DE DONNEES DES BRECHES	BREACHES DATA FILE
FICHIER DE DONNEES DES BUSES	CULVERTS DATA FILE
FICHIER DE DONNEES DES SEUILS	WEIRS DATA FILE
FICHIER DE DONNEES DES SIPHONS	SIPHONS DATA FILE
FICHIER DE DONNEES FORMATE 1	FORMATTED DATA FILE 1
FICHIER DE DONNEES FORMATE 2	FORMATTED DATA FILE 2
FICHIER DE DONNEES POUR LE FROTTEMENT	FRICTION DATA FILE
FICHIER DE FLUXLINE	FLUXLINE INPUT FILE
FICHIER DE GEOMETRIE	GEOMETRY FILE
FICHIER DE REFERENCE	REFERENCE FILE
FICHIER DE RESULTATS BINAIRE	BINARY RESULTS FILE
FICHIER DE RESULTATS FORMATE	FORMATTED RESULTS FILE
FICHIER DE SORTIE DES SECTIONS DE CONTROLE	SECTIONS OUTPUT FILE
FICHIER DELWAQ DE LA DIFFUSION	DIFFUSIVITY DELWAQ FILE
FICHIER DELWAQ DE LA SALINITE	SALINITY DELWAQ FILE
FICHIER DELWAQ DE LA TEMPERATURE	TEMPERATURE DELWAQ FILE
FICHIER DELWAQ DE LA VITESSE	VELOCITY DELWAQ FILE
FICHIER DELWAQ DES DISTANCES ENTRE NOEUDS	NODES DISTANCES DELWAQ FILE
FICHIER DELWAQ DES ECHANGES ENTRE NOEUDS	EXCHANGES BETWEEN NODES DELWAQ FILE

FICHIER DELWAQ DES FLUX VERTICAUX	VERTICAL FLUXES DELWAQ FILE
FICHIER DELWAQ DES SURFACES DE FLUX	EXCHANGE AREAS DELWAQ FILE
FICHIER DELWAQ DES SURFACES DU FOND	BOTTOM SURFACES DELWAQ FILE
FICHIER DELWAQ DES VOLUMES	VOLUMES DELWAQ FILE
FICHIER DES CONDITIONS AUX LIMITES	BOUNDARY CONDITIONS FILE
FICHIER DES CONSTANTES HARMONIQUES	HARMONIC CONSTANTS FILE
FICHIER DES COURBES DE TARAGE	STAGE-DISCHARGE CURVES FILE
FICHIER DES FLOTTEURS	DROGUES FILE
FICHIER DES FONDS	BOTTOM TOPOGRAPHY FILE
FICHIER DES FRONTIERES LIQUIDES	LIQUID BOUNDARIES FILE
FICHIER DES PARAMETRES	STEERING FILE
FICHIER DES PARAMETRES DE RICE2D	RICE2D STEERING FILE
FICHIER DES PARAMETRES DE SISYPHE	SISYPHE STEERING FILE
FICHIER DES PARAMETRES DE TOMAWAC	TOMAWAC STEERING FILE
FICHIER DES PARAMETRES DE WAQTEL	WAQTEL STEERING FILE
FICHIER DES RESULTATS	RESULTS FILE
FICHIER DES SECTIONS DE CONTROLE	SECTIONS INPUT FILE
FICHIER DES SOURCES	SOURCES FILE
FICHIER DES ZONES	ZONES FILE
FICHIER DU CALCUL PRECEDENT	PREVIOUS COMPUTATION FILE
FICHIER DU MODELE DE MAREE	TIDAL MODEL FILE
FICHIER FORTRAN	FORTRAN FILE
FICHIER RESULTAT EN LONGITUDE-LATITUDE	RESULT FILE IN LONGITUDE-LATITUDE
FLUXLINE	FLUXLINE
FONCTION COUT	COST FUNCTION
FORCE GENERATRICE DE LA MAREE	TIDE GENERATING FORCE
FORMAT DU FICHIER BINAIRE DE DONNEES ATMOSPHERIQUES	BINARY ATMOSPHERIC DATA FILE FORMAT
FORMAT DU FICHIER DE DONNEES BINAIRE 1	BINARY DATA FILE 1 FORMAT
FORMAT DU FICHIER DE DONNEES BINAIRE 2	BINARY DATA FILE 2 FORMAT
FORMAT DU FICHIER DE GEOMETRIE	GEOMETRY FILE FORMAT
FORMAT DU FICHIER DE REFERENCE	REFERENCE FILE FORMAT
FORMAT DU FICHIER DE RESULTATS BINAIRE	BINARY RESULTS FILE FORMAT

FORMAT DU FICHIER DES RESULTATS	RESULTS FILE FORMAT
FORMAT DU FICHIER DU CALCUL PRECEDENT	PREVIOUS COMPUTATION FILE FORMAT
FORMAT DU FICHIER DU MODELE DE MAREE	TIDAL MODEL FILE FORMAT
FORME DE LA CONVECTION	TYPE OF ADVECTION
FROTTEMENT POUR LA VEGETATION NON SUBMERGEE	NON-SUBMERGED VEGETATION FRICTION
HAUTEUR DANS LES TERMES DE FROTTEMENT	DEPTH IN FRICTION TERMS
HAUTEUR INITIALE	INITIAL DEPTH
HEURE DE L'ORIGINE DES TEMPS	ORIGINAL HOUR OF TIME
IMPLICITATION POUR LA DIFFUSION DES VITESSES	IMPLICITATION FOR DIFFUSION OF VELOCITY
IMPLICITATION POUR LA HAUTEUR	IMPLICITATION FOR DEPTH
IMPLICITATION POUR LA VITESSE	IMPLICITATION FOR VELOCITY
IMPRESSION DU CUMUL DES FLUX	PRINTING CUMULATED FLOWRATES
INFORMATION SUR LE MODELE SPALART-ALLMARAS	INFORMATION ABOUT SPALART-ALLMARAS MODEL
INFORMATIONS SUR LE MODELE K-EPSILON	INFORMATION ABOUT K-EPSILON MODEL
INFORMATIONS SUR LE SOLVEUR	INFORMATION ABOUT SOLVER
INTERPOLATION DE COMPOSANTES MINEURES	MINOR CONSTITUENTS INFERENCE
LANGUE	LANGUAGE
LATITUDE DU POINT ORIGINE	LATITUDE OF ORIGIN POINT
LISSAGES DU FOND	BOTTOM SMOOTHINGS
LISTE DE POINTS	LIST OF POINTS
LISTE DES FICHIERS	LIST OF FILES
LOI DE DEGRADATION DES TRACEURS	LAW OF TRACERS DEGRADATION
LOI DE FROTTEMENT SUR LE FOND	LAW OF BOTTOM FRICTION
LOI DE FROTTEMENT SUR LES PAROIS LATERALES	LAW OF FRICTION ON LATERAL BOUNDARIES
LONGITUDE DU POINT ORIGINE	LONGITUDE OF ORIGIN POINT
LONGUEUR DU VECTEUR	VECTOR LENGTH
MASS-LUMPING POUR LES CARACTERISTIQUES FAIBLES	MASS-LUMPING FOR WEAK CHARACTERISTICS
MASS-LUMPING SUR H	MASS-LUMPING ON H
MASS-LUMPING SUR LA VITESSE	MASS-LUMPING ON VELOCITY
MASS-LUMPING SUR LES TRACEURS	MASS-LUMPING ON TRACERS
MASSE VOLUMIQUE DE L'EAU	WATER DENSITY
MASSE VOLUMIQUE DES ALGUES	DENSITY OF ALGAE
MAXIMUM D'ITERATIONS POUR K ET EPSILON	MAXIMUM NUMBER OF ITERATIONS FOR K AND EPSILON
MAXIMUM D'ITERATIONS POUR L'IDENTIFICATION	MAXIMUM NUMBER OF ITERATIONS FOR IDENTIFICATION

MAXIMUM D'ITERATIONS POUR LA DIFFUSION DES TRACEURS	MAXIMUM NUMBER OF ITERATIONS FOR DIFFUSION OF TRACERS
MAXIMUM D'ITERATIONS POUR LE SOLVEUR	MAXIMUM NUMBER OF ITERATIONS FOR SOLVER
MAXIMUM D'ITERATIONS POUR LES SCHEMAS DE CONVECTION	MAXIMUM NUMBER OF ITERATIONS FOR ADVECTION SCHEMES
METHODE D'IDENTIFICATION	IDENTIFICATION METHOD
MODELE DE DIFFUSION STOCHASTIQUE	STOCHASTIC DIFFUSION MODEL
MODELE DE NAPPES D'HYDROCARBURES	OIL SPILL MODEL
MODELE DE TRANSPORT DES ALGUES	ALGAE TRANSPORT MODEL
MODELE DE TURBULENCE	TURBULENCE MODEL
MODELE PLUIE-DEBIT	RAINFALL-RUNOFF MODEL
NIVEAUX DE RAFFINEMENT	REFINEMENT LEVELS
NOMBRE DE BUSES	NUMBER OF CULVERTS
NOMBRE DE CORRECTIONS DES SCHEMAS DISTRIBUTIFS	NUMBER OF CORRECTIONS OF DISTRIBUTIVE SCHEMES
NOMBRE DE COURANT SOUHAITE	DESIRED COURANT NUMBER
NOMBRE DE DERIVES LAGRANGIENNES	NUMBER OF LAGRANGIAN DRIFTS
NOMBRE DE FLOTTEURS	NUMBER OF DROGUES
NOMBRE DE PAS DE TEMPS	NUMBER OF TIME STEPS
NOMBRE DE POINTS DE GAUSS POUR LES CARACTERISTIQUES FAIBLES	NUMBER OF GAUSS POINTS FOR WEAK CHARACTERISTICS
NOMBRE DE SEUILS	NUMBER OF WEIRS
NOMBRE DE SIPHONS	NUMBER OF SIPHONS
NOMBRE DE SOUS-ITERATIONS POUR LES NON-LINEARITES	NUMBER OF SUB-ITERATIONS FOR NON-LINEARITIES
NOMBRE DE SOUS-PAS DES SCHEMAS DISTRIBUTIFS	NUMBER OF SUB-STEPS OF DISTRIBUTIVE SCHEMES
NOMBRE DE TABLEAUX PRIVES	NUMBER OF PRIVATE ARRAYS
NOMBRE DE TRACEURS	NUMBER OF TRACERS
NOMBRE MAXIMUM DE DOMAINES DE FROTTEMENT	MAXIMUM NUMBER OF FRICTION DOMAINS
NOMBRE MAXIMUM DE FRONTIERES	MAXIMUM NUMBER OF BOUNDARIES
NOMBRE MAXIMUM DE SOURCES	MAXIMUM NUMBER OF SOURCES
NOMBRE MAXIMUM DE TRACEURS	MAXIMUM NUMBER OF TRACERS
NOMS DES POINTS	NAMES OF POINTS
NOMS DES TRACEURS	NAMES OF TRACERS
NOMS DES VARIABLES CLANDESTINES	NAMES OF CLANDESTINE VARIABLES
NOMS DES VARIABLES PRIVEES	NAMES OF PRIVATE VARIABLES
NORD	NORTH
NUMERO DE FUSEAU OU PROJECTION DANS LE SYSTEME GEOGRAPHIQUE	ZONE NUMBER IN GEOGRAPHIC SYSTEM
NUMERO DE L'ENREGISTREMENT DANS LE FICHIER DE HOULE	RECORD NUMBER IN WAVE FILE
NUMERO DE VERSION	RELEASE

NUMERO DU PREMIER PAS DE TEMPS POUR LES SORTIES GRAPHIQUES	NUMBER OF FIRST TIME STEP FOR GRAPHIC PRINTOUTS
NUMERO DU PREMIER PAS DE TEMPS POUR LES SORTIES LISTING	NUMBER OF FIRST TIME STEP FOR LISTING PRINTOUTS
NUMERO GLOBAL DU POINT POUR CALER LA PLEINE MER	GLOBAL NUMBER OF THE POINT TO CALIBRATE HIGH WATER
NUMERO LOCAL DU POINT POUR CALER LA PLEINE MER	LOCAL NUMBER OF THE POINT TO CALIBRATE HIGH WATER
NUMEROS GLOBAUX DES NOEUDS DES SOURCES	GLOBAL NUMBERS OF SOURCE NODES
OPTION DE LA RECONSTRUCION HYDROSTATIQUE	OPTION OF THE HYDROSTATIC RECONSTRUCTION
OPTION DE PROPAGATION	PROPAGATION OPTION
OPTION DE SUPG	SUPG OPTION
OPTION DE TRAITEMENT DES BANCS DECOUVRANTS	OPTION FOR THE TREATMENT OF TIDAL FLATS
OPTION DU SCHEMA POUR LA CONVECTION DES TRACEURS	SCHEME OPTION FOR ADVECTION OF TRACERS
OPTION DU SCHEMA POUR LA CONVECTION DES VITESSES	SCHEME OPTION FOR ADVECTION OF VELOCITIES
OPTION DU SCHEMA POUR LA CONVECTION DU K-EPSILON	SCHEME OPTION FOR ADVECTION OF K-EPSILON
OPTION DU SCHEMA PSI	PSI SCHEME OPTION
OPTION DU SOLVEUR	SOLVER OPTION
OPTION DU SOLVEUR POUR LA DIFFUSION DES TRACEURS	SOLVER OPTION FOR TRACERS DIFFUSION
OPTION DU SOLVEUR POUR LE MODELE K-EPSILON	OPTION FOR THE SOLVER FOR K-EPSILON MODEL
OPTION DU VENT	OPTION FOR WIND
OPTION POUR LA DIFFUSION DES TRACEURS	OPTION FOR THE DIFFUSION OF TRACERS
OPTION POUR LA DIFFUSION DES VITESSES	OPTION FOR THE DIFFUSION OF VELOCITIES
OPTION POUR LA GENERATION DE TSUNAMI	OPTION FOR TSUNAMI GENERATION
OPTION POUR LES BUSES	OPTION FOR CULVERTS
OPTION POUR LES CARACTERISTIQUES	OPTION FOR CHARACTERISTICS
OPTION POUR LES CONDITIONS AUX LIMITES DE MAREE	OPTION FOR TIDAL BOUNDARY CONDITIONS
OPTION POUR LES FRONTIERES LIQUIDES	OPTION FOR LIQUID BOUNDARIES
OPTION POUR RATIO DES PERTES INITIALES	OPTION FOR INITIAL ABSTRACTION RATIO
ORDONNEES DES SOURCES	ORDINATES OF SOURCES
ORDRE DU TIR INITIAL POUR H	INITIAL GUESS FOR H
ORDRE DU TIR INITIAL POUR U	INITIAL GUESS FOR U

PARAMETRES PHYSIQUES DU TSUNAMI	PHYSICAL CHARACTERISTICS OF THE TSUNAMI
PARTITIONNEUR	PARTITIONING TOOL
PAS DE TEMPS	TIME STEP
PAS DE TEMPS VARIABLE	VARIABLE TIME-STEP
PERIODE DE COUPLAGE POUR SISYPHE	COUPLING PERIOD FOR SISYPHE
PERIODE DE COUPLAGE POUR TOMAWAC	COUPLING PERIOD FOR TOMAWAC
PERIODE DE SORTIE LISTING	LISTING PRINTOUT PERIOD
PERIODE DE SORTIE POUR DELWAQ	DELWAQ PRINTOUT PERIOD
PERIODE POUR LES SORTIES DE FLOTTEURS	PRINTOUT PERIOD FOR DROGUES
PERIODE POUR LES SORTIES GRAPHIQUES	GRAPHIC PRINTOUT PERIOD
PERIODE POUR LES SORTIES LISTING	LISTING FOR PRINTOUT PERIOD
PERIODES D'ANALYSE DE FOURIER	FOURIER ANALYSIS PERIODS
PLUIE OU EVAPORATION	RAIN OR EVAPORATION
PLUIE OU EVAPORATION EN MM PAR JOUR	RAIN OR EVAPORATION IN MM PER DAY
PRECISION DU SOLVEUR	SOLVER ACCURACY
PRECISION POUR LA DIFFUSION DES TRACEURS	ACCURACY FOR DIFFUSION OF TRACERS
PRECISION SUR EPSILON	ACCURACY OF EPSILON
PRECISION SUR K	ACCURACY OF K
PRECISION SUR SPALART-ALLMARAS	ACCURACY OF SPALART-ALLMARAS
PRECISIONS POUR L'IDENTIFICATION	TOLERANCES FOR IDENTIFICATION
PRECONDITIONNEMENT	PRECONDITIONING
PRECONDITIONNEMENT C-U	C-U PRECONDITIONING
PRECONDITIONNEMENT POUR LA DIFFUSION DES TRACEURS	PRECONDITIONING FOR DIFFUSION OF TRACERS
PRECONDITIONNEMENT POUR LE MODELE K-EPSILON	PRECONDITIONING FOR K-EPSILON MODEL
PRESSION ATMOSPHERIQUE	AIR PRESSURE
PROCESSEURS PARALLELES	PARALLEL PROCESSORS
PROCESSUS LIES AUX GLACES	ICE PROCESSES
PROCESSUS QUALITE D'EAU	WATER QUALITY PROCESS
PRODUIT MATRICE-VECTEUR	MATRIX-VECTOR PRODUCT
PROFILS DE VITESSE	VELOCITY PROFILES
PROFONDEUR LIMITE POUR LE VENT	THRESHOLD DEPTH FOR WIND
PROFONDEUR LIMITE POUR PROCEDURE DE RESSUYAGE	THRESHOLD DEPTH FOR RECEDING PROCEDURE
PROFONDEUR MOYENNE POUR LA LINEARISATION	MEAN DEPTH FOR LINEARIZATION
PROPAGATION	PROPAGATION

PROPAGATION LINEARISEE	LINEARIZED PROPAGATION
REDUCTION DU PAS DE TEMPS POUR LE MODELE K-EPSILON	TIME STEP REDUCTION FOR K-EPSILON MODEL
REGIME DE TURBULENCE POUR LES PAROIS	TURBULENCE REGIME FOR SOLID BOUNDARIES
REMISE A ZERO DU TEMPS	INITIAL TIME SET TO ZERO
SALINITE POUR DELWAQ	SALINITY FOR DELWAQ
SCHEMA EN VOLUMES FINIS	FINITE VOLUME SCHEME
SCHEMA POUR LA CONVECTION DES TRACEURS	SCHEME FOR ADVECTION OF TRACERS
SCHEMA POUR LA CONVECTION DES VITESSES	SCHEME FOR ADVECTION OF VELOCITIES
SCHEMA POUR LA CONVECTION DU K-EPSILON	SCHEME FOR ADVECTION OF K-EPSILON
SECTIONS DE CONTROLE	CONTROL SECTIONS
SEUIL POUR LES PROFONDEURS NEGATIVES	THRESHOLD FOR NEGATIVE DEPTHS
SOLVEUR	SOLVER
SOLVEUR POUR LA DIFFUSION DES TRACEURS	SOLVER FOR DIFFUSION OF TRACERS
SOLVEUR POUR LE MODELE K-EPSILON	SOLVER FOR K-EPSILON MODEL
SORTIE LISTING	LISTING PRINTOUT
STOCKAGE DES MATRICES	MATRIX STORAGE
STRUCTURES VERTICALES	VERTICAL STRUCTURES
SUITE DE CALCUL	COMPUTATION CONTINUED
SYSTEME GEOGRAPHIQUE	GEOGRAPHIC SYSTEM
TEMPERATURE MOYENNE	MEAN TEMPERATURE
TEMPERATURE POUR DELWAQ	TEMPERATURE FOR DELWAQ
TITRE	TITLE
TRAITEMENT DES FLUX AUX FRONTIERES	TREATMENT OF FLUXES AT THE BOUNDARIES
TRAITEMENT DES HAUTEURS NEGATIVES	TREATMENT OF NEGATIVE DEPTHS
TRAITEMENT DU SYSTEME LINEAIRE	TREATMENT OF THE LINEAR SYSTEM
TYPE DE PROJECTION SPATIALE	SPATIAL PROJECTION TYPE
TYPE DES ALGUES	ALGAE TYPE
TYPE DES SEUILS	TYPE OF WEIRS
TYPE DES SOURCES	TYPE OF SOURCES
VALEUR DE LA PRESSION ATMOSPHERIQUE	VALUE OF ATMOSPHERIC PRESSURE
VALEUR MINIMUM DE H	MINIMUM VALUE OF DEPTH
VALEUR PAR DEFAUT DU MANNING POUR LA LOI DE COLEBROOK-WHITE	MANNING DEFAULT VALUE FOR COLEBROOK-WHITE LAW
VALEURS DES TRACEURS DANS LA PLUIE	VALUES OF TRACERS IN THE RAIN

VALEURS DES TRACEURS DES SOURCES	VALUES OF THE TRACERS AT THE SOURCES
VALEURS IMPOSEES DES TRACEURS	PRESCRIBED TRACERS VALUES
VALEURS INITIALES DES TRACEURS	INITIAL VALUES OF TRACERS
VALEURS LIMITES	LIMIT VALUES
VALIDATION	VALIDATION
VARIABLES A IMPRIMER	VARIABLES TO BE PRINTED
VARIABLES POUR LES SORTIES GRAPHIQUES	VARIABLES FOR GRAPHIC PRINTOUTS
VENT	WIND
VERIFICATION DU MAILLAGE	CHECKING THE MESH
VITESSE DU VENT SUIVANT X	WIND VELOCITY ALONG X
VITESSE DU VENT SUIVANT Y	WIND VELOCITY ALONG Y
VITESSE ET DIRECTION DU VENT	SPEED AND DIRECTION OF WIND
VITESSE POUR DELWAQ	VELOCITY FOR DELWAQ
VITESSES DES SOURCES SELON X	VELOCITIES OF THE SOURCES ALONG X
VITESSES DES SOURCES SELON Y	VELOCITIES OF THE SOURCES ALONG Y
VITESSES IMPOSEES	PRESCRIBED VELOCITIES
ZERO	ZERO

[1]

[1] HERVOUET J.-M. *Hydrodynamics of Free Surface Flows. Modelling with the finite element method.* Wiley, 2007.