

## TELEMAC-3D VERSION 5.8

### NEW OPTIONS AND NEW KEY-WORDS

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**final version 12/02/2008**

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**The main new features of this version 5.8 are:**

- **Compatible fluxes at exits with prescribed depth give an exact mass-balance.**
- **Monotonicity of advection-diffusion is ensured provided that distributive schemes are used, even with obtuse angles in triangles of the 2D mesh.**
- **Filtering of buoyancy terms in stratifications.**
- **K-epsilon model revisited and much more stable.**

**New or modified key-words :**

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New outputs for DELWAQ: now salinity and temperature can be passed to DELWAQ, with the following key-words:

For salinity:

SALINITY FOR DELWAQ = YES  
(SALINITE POUR DELWAQ : OUI)

SALINITY DELWAQ FILE : name\_of\_file  
(FICHIER DELWAQ DE LA SALINITE : nom\_du\_fichier)

For temperature:

TEMPERATURE FOR DELWAQ = YES  
(TEMPERATURE POUR DELWAQ : OUI)

TEMPERATURE DELWAQ FILE : name\_of\_file  
(FICHIER DELWAQ DE LA TEMPERATURE : nom\_du\_fichier)

Important note : to know what tracer is the salinity and what tracer is the temperature, the key-word « NAMES OF TRACERS » is used. Salinity name must begin with “SALINIT” and temperature name must begin with “TEMPERATURE”. The program will be stopped if the correct tracer name is missing.

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### **New user subroutine and modifications in user subroutines:**

In TRISOU a new choice is offered for filtering hydrostatic inconsistencies. Look for FORMUL(6:6)='2' and try instead FORMUL(6:6)='4'. Explanations are given in the Telemac version 5.8 release notes.