**InterFrost spread sheet for participant’s code information**

*File is code related, if you use more than one code please provide one file per code …*

*Aims: 1°) provide pieces of information that will probably be essential to understand possible differences in the results or performances, 2°) provide info that will be essential to improve the codes from a “best practice” perspective.*

Name of the code

Participant laboratory

Participant name(s)

Is the code used or developed by the team?

Numerical scheme, order of the numerical scheme

Time discretization strategy (fixed time steps / if adaptative, provide further information)

Spatial discretization

* 2D / 3D
* external/internal mesh generator
* structured or unstructured grids, what kind of polyhedral mesh (tetra ? hexa ?)

Treatment of non-linearities?

* Method used (Newton, Picard …)
* Convergence criterion expression and threshold value

Resolution of linear systems

* Linear solvers
* pre-conditioner

How is the TH coupling managed?

* Sequential resolution / iterative process / simultaneous inversion?

List of available boundary conditions options in the code

Sources of averaging (under relaxation, spatial averaging on variables …)

Constitutive laws implemented

* Saturation curve
* Permeability as a function of temperature

What kind of averaging for the properties (depending on water, ice, bulk parameters)?

Is (massively)parallel resolution implemented?

* Which approach (domain decomposition, loop decomposition).
* Indicative number of processors

Papers / reports / web siteproviding (further) information

Further pieces of information?