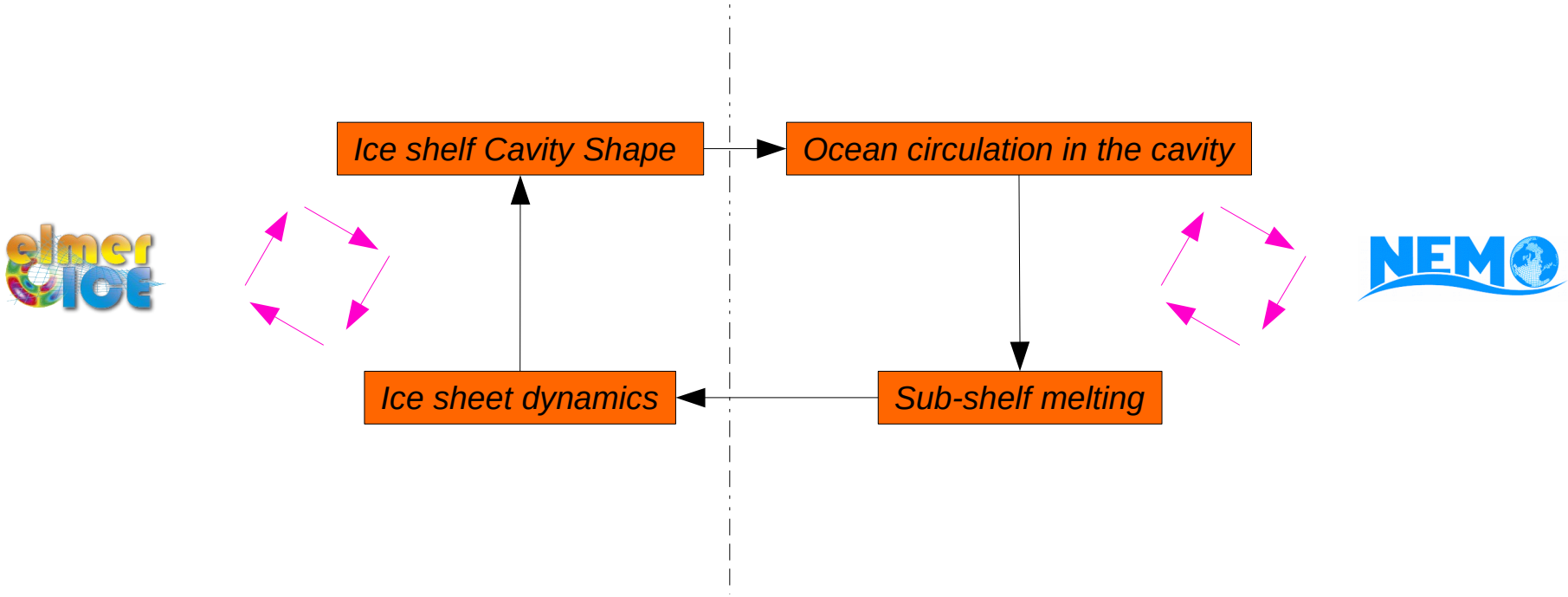
Elmer/Ice – NEMO coupled framework

MOTIVATIONS :

- Melting beneath ice shelves responsible for half the loss of Antarctic ice in the ocean
- Poor representation of melting in Antarctic ice modelling → sea level rise uncertainties
- Need better representation of Ocean – Ice sheet feedbacks to improve projections



Elmer/Ice – NEMO coupled framework

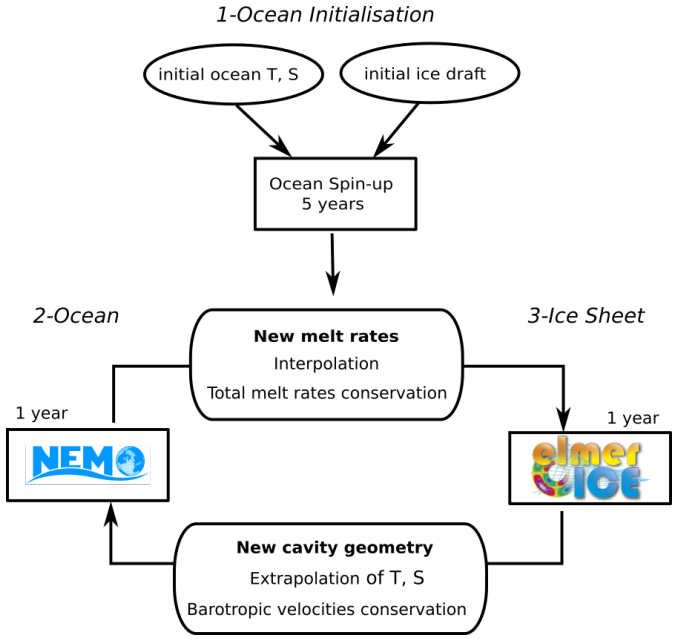
Geosci. Model Dev. Discuss., https://doi.org/10.5194/gmd-2019-26
Manuscript under review for journal Geosci. Model Dev.
Discussion started: 15 February 2019

Geoscientific Model Development Discussions

Assessment of Sub-Shelf Melting Parameterisations Using the Ocean-Ice Sheet Coupled Model NEMO(v3.6)-Elmer/Ice(v8.3)

Lionel Favier[1], Nicolas C. Jourdain[1], Adrian Jenkins[2], Nacho Merino[1], Gaël Durand[1], Olivier Gagliardini[1], Fabien Gillet-Chaulet[1], and Pierre Mathiot[3]

→ *Using the coupled model as a reference to assess melting params within an idealised framework (MISOMIP1)*



Almost no sensitivity to coupling time step