

A) Agreement on what changes to aim to make

Should be based on expected impact and level of readiness.

Start with the three below. Come back to consider other ones once we've sorted out this first three.

B) Clarification of **independent components of major changes**

New time-level scheme

- 1) Renaming of variables; have to insert time-levels in dummy & actual argument lists at same time
- 2) Writing stp_MLF and stp_RK3
- 3) Open issue: on what time-levels will diagnostics be output in RK3 and other new schemes ?

Two-point halo exchange

- 4) Changes to lbc_Ink routines
- 5) Changes to calls to lbc_Ink routines (a lot of these become redundant for 2-halo option)
- 6) Are read / write of restart files and diagnostics affected ?
- 7) Issue: Is one-point halo retained as an option

Horizontal tiling

- 8) DO loop macros (only introduced in 3D routines that will be tiled ??)
- 9) Handling of diagnostics (changes just within XIOS ?)
- 10) Full implementation requires 2-point halo exchange

C) Scenario options

- a) Implement changes sequentially on a branch and merge other 4.1 developments with this branch at the end of the year to create the 4.1 release.
- b) Merge initial code changes (probably just task (1) above) into the trunk by the end of March so that other 4.1 developers can branch from this point. This makes the merge at the end of the year a bit easier. Would require agreement from the System Team.

D) Agree who will contribute to what

Gurvan – contributes ideas for design on all aspects

1) and 8) Andrew C, Dave S, (could be Daley C ?)

2-point halos – CMCC