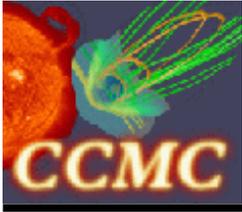


Frameworks Session Report

Peter MacNeice (aka Joe Bredekamp)

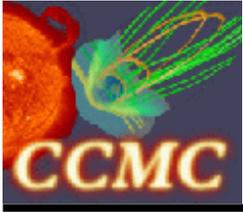
CCMC Workshop
Clearwater Beach
October 14, 2005.





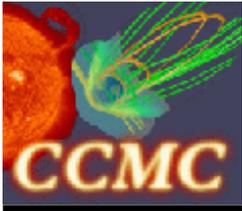
Talks

- Introduction
- SWMF - DeZeeuw
 - Overview and status
 - New results : Halloween storm - 5 s/c comparison
- CISM - Goodrich
 - Overview and status
 - Stressed loosely coupled asynchronous execution design and minimal changes philosophy
- CCMC Data format - Maddox
- USAF - Cade
 - BEI goals - commitment to ESMF
- SEC Perspective - Onsager



Discussion - Questions Posed

- How do I know which framework I should target?
 - Which framework is easiest to plug into?
- Pressure to converge on a single framework?
 - How will BEI satisfy its SW milestone if it is locked into ESMF, and how will this factor into their operational need to work with a single framework?
 - Dangers of legislating standards!
- Accuracy
 - Coupling won't improve results without blood sweat and tears
 - Are framework validation efforts premature?
- Born-again frameworkers
 - Is there a role for CCMC as framework evangelists?
 - No future codes should stand alone - should all design toward modularity!
 - Should there be funding opportunities expressly for code additions to frameworks? (CT did have this notion in round 3)
- Will data assimilation needs take over from coupling imperative in framework design questions in the next decade?



Discussion - Summary

- Consensus - 3 must be collapsed into 1
 - What will the forcing pressure be?
 - When will it arrive? - some time off.
 - I still struggle to grasp what SWFs and ESMF offer to each other beyond political alliance right now.
- Consensus - collapse must emerge naturally, not be legislated
- Consensus - on how to pick the one that is right for you
 - Premature, because of
 - ‘coupling physics’ challenge
 - Data assimilation challenge (?)
 - Will dwarf actual coupling coding tasks
 - Extended initial 2 model coupling phase - choice based on comfort level in working with particular framework team - wrong choice dangers mitigated by steady evolution of frameworks towards ability to cooperate (partial compliance features).
- CCMC actions
 - Play with frameworks - provide feedback to on how easy each is to plug into.