

# 6. WRF Action Items Status

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WRF Executive Oversight Board

Meeting 2005-2

4<sup>th</sup> ExOB Meeting

11 August 2005

**Action Item 3.1-2005 for DTC Director:** As soon as careful validations can be completed, DTC Director will **present to the ExOB WRF statistical evaluations demonstrating the accuracy of the WRF modeling system in major modeling experiments.**

**Status:** **Done.**

Following reconciliation of NCEP and FSL verification codes at DTC, DWFE evaluations have been performed, including calculations to determine statistical significance of the precipitation verification scores. The verifications show that WRF-ARW had somewhat better equitable threat scores than WRF-NMM and Eta, while WRF-NMM had somewhat more accurate surface winds, temperatures and moistures than WRF-ARW and Eta. However, differences among scores of the three models probably are not significant. A final report has been drafted, is under review, and is scheduled for submission in August. (Also, see DTC briefing to ExOB.)

**Action Item 3.2 for AFWA POC: AFWA will request AFIT to include WRF verification-related thesis topics.**

**Status: Done (?)**

**Action Item 3.3-2005 for PC:** Obtain from WRF ExOB members a copy of each organization's strategic plan. **Distribute partner's strategic plans to all WRF organizations and use them to help develop the WRF Five-Year Plan.**

**Status:** **On track.**

Most organizations already have provided a summary of their plans for WRF over the next five years as part of the Five-Year Plan development. Organizations are encouraged to review their summaries and determine if they need to be updated to better integrate with overall WRF strategic plans under development.

**Action Item 3.4-2005 for PC:** As part of the WRF Five-Year Plan development, develop a **joint investment strategy to help the WRF partners guide the flow of their resources to maximize the value of WRF investments.**

**Status:** **Pending.**

Input needed from ExOB.

**Action Item 3.5-2005 for PC:      Restore Slide 3.2.10 (2005-1.2.10) to show Phase 1, Goal 5 as in July '04 meeting.** The slide should describe the original **metrics for correcting critical deficiencies in the WRF software infrastructure (or, CMI).** Change slides 3.2.12-3.2.18 to be consistent with that restoration. Simplify terminology on briefing slides wherever possible.

**Status:** **Done.**

**Action Item 3.6-2005 for PC:** Analyze the whether the **documentation for the WRF software infrastructure** is sufficiently detailed and extensive to meet needs of code developers.

**Status:** **On track.**

This task has been written into the charge to technical experts to be assembled for the WRF-ESMF merger/integration workshop.

**Action Item 3.7 for AFWA POC and DTC Director:** Work with NCAR/MMM and COMET to develop an **on-line training/tutorial for NCAR's WRF-ARW**. AFWA will provide staffing support, as necessary.

**Status:** **On track.**

COMET will participate by videotaping the upcoming WRF-NMM and WRF-ARW tutorials (Sept. and Oct. 2005, respectively). Tapes of each session can later be edited and made available for individuals unable to attend the tutorials.

Note: Creation of full COMET distance learning modules appears to be economically impractical at this time.

**Action Item 3.8-2005 for PC and DTC Director:** Prepare a **joint resource plan for the DTC and WRF Program Office**, with options, for discussion at the next meeting of the Executive Oversight Board, in August 2005.

**Status:** **On track.**

A plan has been drafted for a Joint Numerical Testbed (JNT) for presentation to the WRF ExOB. A joint resource plan will be developed once feedback is received and incorporated into the plan. The JNT concept will address DTC and OTC functions, and redesign the WRF Program Office to provide adequate staffing.

**Action Item 3.9-2005 for PC, DTC Director and Mike Clancy:** As soon as possible, **prepare for and conduct a planning meeting** to develop a technical plan (with options) **for merging, or integrating, WRF and ESMF infrastructures** and report back to the ExOB.

**Status:** **On track.**

A format for the meeting has been agreed on and a charge for meeting participants has been written. A list of organization requirements for infrastructures is available and additional background documents for meeting participants have been solicited. Program Office representatives have been requested to respond with comments on the charge by August 19th. NCAR will help to set up a date and location (probably in October).