



NAEFS (NUOPC) Version 6.0

Status as of 1/18/18



Project Information & Highlights

Leads: Yuejian Zhu/ Bo Cui (EMC), Steven Earle (NCO)

Scope: Introduce higher resolution raw (CMC) and bias corrected (NCEP and CMC) global ensemble forecast. Improve methodology (hybrid of decaying and reforecast) for bias correction. Introduce extreme forecast products.

Expected benefits: Higher quality NAEFS products

Dependencies: Data exchange with CMC (and FNMOC)



Issues/Risks

Issues: CMC 0.5 degree ensemble arrival time ;

Mitigation: delay implementation



Schedule

| Milestones & Deliverables | Date | Status |
|---|----------|---|
| Freeze system code; deliver to NCO if applicable | 4/10/17 | Completed |
| Complete full retrospective/real time runs and evaluation | 9/06/17 | Completed |
| Conduct CCB and deliver final system code to NCO | 9/13/17 | Completed |
| Issue Technical Information Notice | 9/29/17? | Delayed |
| Complete 30-day evaluation and IT testing | 3/20/18 | TBD |
| Operational Implementation | 4/10/18 | TBD |
| EMC | NCO | Red text indicates change from previous quarter |



Resources

Staff: 0.5 Fed FTEs (Yuejian Zhu 0.3; Dingchen Hou 0.2) + 2.0 contractor FTEs (Bo Cui 0.8; Richard Wobus 0.5; Yan Luo 0.2; Hong Guan 0.2; Jiayi Peng 0.2; Wei Li 0.1) including dev of NAEFS and NUOPC.

Funding Source: STI

Compute: parallels: 50 nodes for 2 months (Delta: 40 nodes); **EMC Dev:** 50 nodes for 1-year (Delta: 40 nodes); **Ops:** 40 nodes (Delta: 30 nodes - higher water mark)

Archive: 10TB (no changes); **Ops:** 12 GB per cycle (no major changes)



Management Attention Required



Potential Management Attention Needed



On Target