GEFS v12 relevant info

GEFS v12 coordination google drive (link)

Updated on 7/30/19

High Level Timeline (dates as of 9/12/19, 2/26/20, 4/23/20, 5/20/20)

- Freeze GEFS-Atmosphere configuration for reanalysis/reforecast - **Q1FY19**
- Freeze GEFS-Atmosphere configuration for retrospectives - **Q3FY19**
- Freeze GEFS-Wave configuration/code for retrospectives - **Q4FY19**
- Freeze GEFS-Aerosols configuration/code - **Q4FY19 → Q2FY20**
- Produce 20 years reanalysis datasets (ESRL/PSD): **Q3FY18 - Q4FY19 → Q3FY18 - Q1FY20**
- Produce 30 years reforecast extended to 35 days: **Q1FY19 - Q1FY20**
- Produce 2-3 years retrospectives for atmosphere: **Q3FY19 - Q2FY20**
- Produce one year retrospectives for wave ensemble: **Q4FY19 - Q2FY20**
- Produce one year retrospectives for aerosol: **Q1FY20 - Q2FY20**
- **Freese all components code (including workflow and post) for final I&T and EE2 compliance - 4/1/20 → 4/23/2020**
- EE2 process and coordination with NCO: **Q4FY19 - Q4FY20**
- Deliver PNS to HQ: **PNS1 (12/2019)**, **PNS2 (04/2020)**, PNS3-Wave (5/2020), SCN (30 days before)
- Field evaluation for all components: **Q2FY20 (03/02/20 - 03/16/20) → 3/2/20 - 4/10/20**
- MEG final briefing 4/23/2020
- Field evaluation recommendation due to EMC/MEG by 4/27/20
- EMC CCB **05/1/2020**
- Science OD brief on ~~or before~~ **5/5/2020**
- Deliver final package to NCO: **Q3FY20; May 2020 → 04/17/20 → 05/15/20 (Tentative) → 5/22/20**
- Transition to Operations **Q4FY20 (Aug 26, 2020) → 09/07/20 (Tentative)**

Project plans related to GEFS v12

- DRAFT GEFS v12 project plan and charter ([link](#))
- GEFS v12 latest Gantt chart ([link](#))
- GEFS v12 retrospective plan ([link](#))
- GEFS v12 reforecast plan ([link](#))
- GEFS v12 field evaluation plan ([link](#))
- Wave Ensemble development/evaluation plan ([link](#))
- Aerosol evaluation plan ([link](#))
- Latest SIP document ([link](#))
- GEFS V12 test plan on Dell 3.5 ([link](#))
- GEFS v12 SCN draft ([link](#))
- Published NWS PNSs ([link](#))

GEFS v12 related info

- EMC/NCO kick-off meeting - 9/12/19 (link)
- Products retirement list (link)
- Downstream products validation (link)
- Model dependency spreadsheet (link)
- NWS notification: PNS, SCN,... (link)

GEFS v12 related V&V information

- GEFS-ops verification page (link)
- GEFS v12-retrospective verification page (link)
- GEFS v12-retrospective monitor system page (link)
- Integrated GEFS Official Evaluation page (link)
- EE2 document (link)
- Example of GEFS v12 retro case study (link)

Quad charts related to GEFS v12

- Global Ensemble Dev quad (link)
- GEFS v12 T2O quad (link)
- Wave Modeling Dev quad (link)
- Air Quality Modeling Dev quad (link)
- Verification and Validation quad (link)
- Post Processing & Products quad (link)
- Model Evaluation quad (link)

GEFS v12 R&R

Component	Manager	Lead	Developers (based on redmine tasks)
Overall management	Vijay	Farida	
Atmospheric ensemble	Vijay	Yuejian/Dingchen	
Wave Ensemble	Vijay	Henrique	Henrique, Roberto
Aerosols/Chemistry	Vijay	Jeff	
V&V	Jason		Binbin, Yan Luo, Jiayi, Alicia, Deanna, Partha
Model evaluation	Jason	Geoff	Alicia
Post Processing & Products	Jason	Hui-ya	Wen Meng (Atm & Aerosol), Bhavani (Wave)
Infrastructure	Arun	Lin Gan	?? (workflow), Lin (EE2)

GEFS v12 R&R for V&V activities (FINAL)

Activity	Lead	Developers	Notes	Branch
Integrated GEFS field evaluation	Geoff Manikin	Alicia Bentley	Field evaluation	VPPPGB/Jason
Develop GEFS evaluation plan for atmospheric week 1	Geoff Manikin	Alicia Bentley		VPPPGB/Jason
Develop GEFS evaluation plan for atmospheric week 2-4	CPC			VPPPGB/Jason Vijay/MDAB
GEFS test plan and execution	Yuejian		Need to coordinate with Wave and NGAC teams	MDAB/Vijay
Execute verification package	BinBin Zhou	BinBin Zhou, Yan Luo, Alicia Bentley		VPPPGB/Jason
Develop verification tools/metrics for week 1	BinBin Zhou	BinBin Zhou, Yan Luo, Jiayi Peng, Alicia Bentley	METplus and VSDB Is METplus ready/validated?	VPPPGB/Jason
Develop verification tools/metrics for week 2-4	CPC			VPPPGB/Jason Vijay/MDAB
Evaluation plan for wave ensemble	Henrique		Share it with the GEFS team	MDAB/Vijay
Wave verification tools and execution	Deanna Spindler	Todd Spindler, Deanna Spindler	Python3	VPPPGB/Jason
Evaluation plan for NGAC	Jeff		Share it with the GEFS team	MDAB/Vijay