NWS REQUEST FOR CHANGE FORM	1. WSH TRACKING NUMBER	1A. REV LEVEL	2. DATE RECEIVED

PART A - COVER SHEET

This form is in three parts. Submitters must complete unshaded blocks in Part A, and as much of Part B and C as possible. If there is no specific required change date, enter 60 days from date submitted. Address questions to NWS Change Management at (301) 713-1373. Submit change requests to the NWSRC mailbox (External: NWSRC@noaa.gov).

3. ORIGINATOR OFFICE	4. SUBMITTING AUTHORITY	5. COGNIZANT TECHNICAL INDIVIDUAL	6. ORIGINATOR TRACKING NUMBER	7. DATE SUBMITTED
NWS/OST/MDL	Name: Rebecca Cosgrove Routing Code: W/OST22	Name: Paul Dallavalle Routing Code: W/OST22 Phone: 301-713-0023 x135	MDL2005-05	July 7, 2005

8. SYSTEMS AFFECTED BY CHANGE

- [ ] ASOS
- [x] AWIPS
- [ ] CSSA
- [ ] CRS
- [x] DATA PRODUCTS
- [ ] EMWIN
- [ ] NEXRAD
- [ ] RRS
- [ ] OTHER (specify)

9. ORD IDENTIFIER

10. TITLE OF CHANGE
Addition of GFS-based gridded MOS guidance for the CONUS

11. CATEGORY OF CHANGE

- [x] RC
- [ ] PECP
- [ ] ECP

12. TYPE OF CHANGE

- [ ] DOCUMENTATION ONLY
- [ ] HARDWARE
- [x] SOFTWARE
- [x] DATA

13. SITES AFFECTED
all

14. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY OF EXISTING SYSTEM
To support the NDFD, forecasters must produce accurate forecasts on a high-resolution grid in an optimal manner, using guidance available on a grid at a resolution comparable to that used in the WFO forecast process. The current MOS system is only available at specific sites, and the direct numerical model output is not available at the desired grid resolution. The IFPS ISST has recommended the development of MOS guidance in gridded format.
(Text adapted from Gridded MOS OSIP Stage 2 documents)

15. KNOWN OR PROPOSED SOLUTION
MDL will generate GFS-based MOS guidance on the 5-km NDFD CONUS grid twice daily (0000 and 1200 UTC model cycles) in GRIB2 format. Guidance will be available for projections of 6 to 192 hours after model run time. The initial implementation will consist of guidance for maximum and minimum temperature, 2-m spot temperatures and dewpoints, 6- and 12-h probability of precipitation (POP), wind direction and speed, 6- and 12-hr probability of thunderstorms, relative humidity, and categorical snowfall amount. More elements will follow, along with some OCONUS grids, as they become available. Although the grid encompasses the entire CONUS, initially some or all elements will only have forecast data for the Western third of the grid, with the rest of the grid containing missing values. We will populate the other 2/3rds of the CONUS grid as the guidance becomes available.

The GRIB2 products will be sent from the NCEP CCS via the SBN to AWIPS, decoded by the GRIB2 decoder, and then ingested into GFE and the volume browser. These products are slated for Application Release 6.1. We anticipate these products to add roughly 80 MB of data to the SBN twice per day.

16. ALTERNATE SOLUTIONS
none

17. REQUIRED CHANGE DATE	18. RATIONALE FOR REQUIRED CHANGE DATE	19. PRIORITY
ASAP for testNCF November 29, 2005 for SBN transmission	SEC needs sample data on the testNCF as soon as possible for testing. November 29, 2005 for official SBN transmission corresponds to 120 advance notice for new WMO headers	[x] ROUTINE [ ] URGENT [ ] EMERGENCY

DRG/CCB/PMC/CMB DECISION

20. DECISION AUTHORITY AND IMPACT LEVEL

- [ ] PMC or NWS CMB DECISION REQUIRED
- [ ] CCB LEVEL ONLY
- [ ] FAST TRACK
- [ ] MAJOR CHANGE
- [ ] MINOR CHANGE

21. CCB LEVEL DECISION

- [ ] APPROVED
- [ ] DISAPPROVED
- [ ] RECOMMEND APPROVAL
- [ ] REFERRED TO OSIP

SIGNATURE

DATE SIGNED

FOR USE ONLY WHEN PMC or NWS CMB DECISION REQUIRED

22. PMC OR NWS CMB DECISION

- [ ] APPROVED
- [ ] DISAPPROVED

SIGNATURE/DATE

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PART A - DATA PRODUCTS SUPPLEMENT

This information is required for Data Products submissions.

3. INTERNAL NWS USE ONLY	4. PRODUCT SOURCE	5. AWIPS DATA TYPE
☐ YES ☒ NO	NCEP CCS	Grids (GRIB2)

6A. NOTIFICATION	6B. CHANGE NOTICE NUMBER	6C. ISSUE DATE	6D. TEST DATE	6E. IMPLEMENT DATE
AWIPS				
EMWIN				
NWWS				

7. NODE ID	8. AWIPS ID NNNXXX	9. WMO HEADER	10. ADD REV DEL	11. SEAS Y/N	12. CHAR PER MSG	13. FREQUENCY	14. NWSTG DISTR
Please see attached documents for complete header and product size/projection information							
		LBUxxx	Add	N	225K/grid	Twice daily	SBN/NOAAPORT
		LCUxxx	Add	N	125K/grid	Twice daily	SBN/NOAAPORT
		LDUxxx	Add	N	100K/grid	Twice daily	SBN/NOAAPORT
		LEUxxx	Add	N	250K/grid	Twice daily	SBN/NOAAPORT
		LFUxxx	Add	N	250K/grid	Twice daily	SBN/NOAAPORT
		LGUxxx	Add	N	250K/grid	Twice daily	SBN/NOAAPORT
		LHUxxx	Add	N	250K/grid	Twice daily	SBN/NOAAPORT
		LJUxxx	Add	N	100K/grid	Twice daily	SBN/NOAAPORT
		LRUxxx	Add	N	100K/grid	Twice daily	SBN/NOAAPORT
		LSUxxx	Add	N	100K/grid	Twice daily	SBN/NOAAPORT
		LUUxxx	Add	N	100K/grid	Twice daily	SBN/NOAAPORT
		LXUxxx	Add	N	100K/grid	Twice daily	SBN/NOAAPORT

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