Topic:	NCCF Product Upgrade 1.26-1.1 Products
Date/Time Issued:	
Product(s) or Data Impacted:	Several products distributed to users via PDA OPS
Date/Time of Initial Impact:	
Date/Time of Expected End:	
Length of Outage:	None
Details/Specifics of Change:	Listed in the table below

Updated Products:

Product Group:	GeoSST	
Satellites:	MSG 9 and 10	
Impact on Users:	Yes: filename changes. Gridded original files to be provided.	
List of Scientific Changes:	None.	
PDA Short Names	**PDA Filename Patterns (Old)**	**PDA Filename Patterns (New)**
GeoSSTL2P_MSG	\d{14}-OSPO-L2P_GHRSST-SSTskin-MSG0[2|3|4]-v\d{2}\.\d{1}-fv\d{2}\.\d{1}\.nc$	\d{14}-OSPO-L2P_GHRSST-SSTskin-MSG\d{2}-v%-fv%.nc
MSG_SSTmatchupsascii	match_msg_\d{4}_\d{3}\.\d{2}S\.gz$	GeoSST-BuoyMatch__v%_msg\d_s\d{15}_e\d{15}_c\d{15}.S
MSG_SSTmatchupsBayesian	match_msg_\d{4}_\d{3}\.\d{2}B\.gz$	GeoSST-BuoyMatch__v%_msg\d_s\d{15}_e\d{15}_c\d{15}.bin
GeoSST_MSG_dailygriddedBayesian	sst24b_msg_\d{4}_\d{3}\.gz$	GeoSST-Grid24avg-B_v%_msg\d_s\d{15}_e\d{15}_c\d{15}.bin
GeoSST_MSG_dailygriddedoriginal	sst3o_msg_\d{4}_\d{3}_\d{2}\.gz$	GeoSST-Grid24avg-O_v%_msg\d_s\d{15}_e\d{15}_c\d{15}.bin
GeoSST_MSG_1hourgriddedBayesian	sst1b_msg_\d{4}_\d{3}_\d{2}\.gz$	GeoSST-Grid01avg-B_v%_msg\d_s\d{15}_e\d{15}_c\d{15}.bin
GeoSST_MSG_1hourgriddedoriginal	sst1o_msg_\d{4}_\d{3}_\d{2}\.gz$	GeoSST-Grid01avg-O_v%_msg\d_s\d{15}_e\d{15}_c\d{15}.bin
GeoSST_MSG_3hourgriddedBayesian	sst3b_msg_\d{4}_\d{3}_\d{2}\.gz$	GeoSST-Grid03avg-B_v%_msg\d_s\d{15}_e\d{15}_c\d{15}.bin
GeoSST_MSG_3hourgriddedoriginal	sst3o_msg_\d{4}_\d{3}_\d{2}\.gz$	GeoSST-Grid03avg-O_v%_msg\d_s\d{15}_e\d{15}_c\d{15}.bin

Product Group:	Blended Hydro
Satellites:	N20,N21, SNPP, Metop-B, Metop-C, GPM, GCOM, G18, G19
Impact on Users:	Yes
List of Scientific Changes:	Updated with MIRSv5 and include the smoothing algorithm
PDA Short Names	**PDA Filename Patterns**
BHP_TPW	BHP-TPW_v\d{2}r\d{1}_blend_s\d{15}_e\d{15}_c\d{15}\.nc
BHP_PCT	BHP-PCT_v\d{2}r\d{1}_blend_s\d{15}_e\d{15}_c\d{15}\.nc
BHP_RR	BHP-RR_v\d{2}r\d{1}_blend_s\d{15}_e\d{15}_c\d{15}\.nc

Product Group:	ALPW
Satellites:	N20,N21, SNPP, Metop-B, Metop-C
Impact on Users:	Yes
List of Scientific Changes:	Updated with MIRSv5 and a patch to update the code to code update will ignore any remapped HDF files older than 9 hours of the requested run time and it will continue to produce the final product with warning.
PDA Short Names	**PDA Filename Patterns**
BHP_ALPW	BHP-ALPW_v\d{2}r\d{1}_blend_s\d{15}_e\d{15}_c\d{15}\.nc

Product Group:	MIRS
Satellites:	N20,N21,SNPP,Metop-B,Metop-C,GPM
Impact on Users:	Yes
List of Scientific Changes:	1.Snowfall Rate (SFR): As of this version, SFR is no longer supported under MiRS. The SFR algorithm has transitioned to a stand-alone algorithm. 2. An updated radiometric bias correction and instrument+forward model error file for NOAA-21 ATMS has been included in this package. This should produce slightly better performance for water vapor and temperature profile retrievals, as well as total precipitable water (TPW). Total Precipitable Water (TPW):3. A correction was made to the computation of TPW from the retrieved water vapor profile. This should result in a slight decrease of about 1 mm on average globally. Water vapor profiles themselves are not affected by the change. IMPORTANT CHANGE: Please note that significant changes have been made to the variable representation and/or precision for several variables in the output netCDF files, specifically the IMG files which contain “single-level” variables. The issue is summarized below. o The variable type and scale factors of several products stored in the MiRS output IMG* netCDF files are leading to significant issues that negatively impact the quality of the data for both operational and science users. The primary issues are: ▪ 1) Signed 2-byte types and scale factor (0.01) for TSkin, YM (uncorrected brightness temperature), and BT (corrected brightness temperature) are leading to potential overflow/saturation in conditions of very high surface temperatures (i.e. greater than 327.67 K). Occurrences of saturation/overflow in these variables are likely to increase as Earth temperatures increase. ▪ 2) Signed 2-byte types and scale factor (0.1 and 0.01) for hydrological variables: RR, RWP, GWP, CLW, LWP do not provide sufficient precision for scientific analysis. The table below summarizes the old (v11.9 and earlier) and new (v11.10) variable representations: The changed variable representation is expected to increase the disk storage requirement for global data by approximately 38 MB per day or approximately 14 GB per year for ATMS for a single satellite.

Variable	Old type	Bytes	Value range	Old scale factor	New type	New scale factor
RR	short	2	-32,768 to 32,767	0.1	float (4 bytes)	N/A
CLW	short	2	-32,768 to 32,767	0.01	float	N/A
GWP	short	2	-32,768 to 32,767	0.01	float	N/A
RWP	short	2	-32,768 to 32,767	0.01	float	N/A
TSkin	short	2	-32,768 to 32,767	0.01	float	N/A
LWP	short	2	-32,768 to 32,767	0.01	float	N/A
BT	short	2	-32,768 to 32,767	0.01	short (no change)	0.015
YM	short	2	-32,768 to 32,767	0.01	short (no change)	0.015

PDA Short Names	**PDA Filename Patterns (Old)**	**PDA Filename Patterns (New)**
MIRS_AMSU-MHS_IMG, MIRS_ATMS_IMG, MIRS_GMI_IMG	NPR-MIRS-IMG_v11r9_(ma1|ma3)_s\d{15}_e\d{15}_c\d{15}\.nc	NPR-MIRS-IMG_v11r10_(ma1|ma3)_s\d{15}_e\d{15}_c\d{15}\.nc
MIRS_AMSU-MHS_SND, MIRS_ATMS_SND, MIRS_GMI_SND	NPR-MIRS-SND_v11r9_(ma1|ma3)_s\d{15}_e\d{15}_c\d{15}\.nc	NPR-MIRS-SND_v11r10_(ma1|ma3)_s\d{15}_e\d{15}_c\d{15}\.nc
NPR-MIRS-IMG_33min_v11	NPR-MIRS-IMG_33min_v11_(n20|n21|npp)_s\d{15}_e\d{15}_c\d{15}\.nc	NPR-MIRS-IMG_33min_v11_(n20|n21|npp)_s\d{15}_e\d{15}_c\d{15}\.nc
NPR-MIRS-SND_33min_v11	NPR-MIRS-SND_33min_v11_(n20|n21|npp)_s\d{15}_e\d{15}_c\d{15}\.nc	NPR-MIRS-SND_33min_v11_(n20|n21|npp)_s\d{15}_e\d{15}_c\d{15}\.nc

Product Group:	Ocean Color	
Satellites:	NOAA-20	
Impact on Users:	New PDA Filenames	
List of Scientific Changes:		
PDA Short Names	**PDA Filename Patterns (Old)**	**PDA Filename Patterns (New)**
L2VR1YCW	VR1YCW\.C\d{7}\.\d{6}\.nc$	OC-L2-VY750-NRTNIR-GRN_v%r%_n20_s\d{15}_e\d{15}_c\d{15}.nc
VR1VCW_VW00_chlora_nc	VR1VCW_C\d{7}_\S+_VW00_edgemask_chlora\.nc$	OC-VW00-VV750-NLW642-GRN_v%r%_n20_s\d{15}_e\d{15}_c\d{15}.nc
VR1VCW_WU00_chlora_nc	VR1VCW_C\d{7}_\S+_WU00_edgemask_chlora\.nc$	OC-WU00-VV750-CHLORA-GRN_v%r%_n20_s\d{15}_e\d{15}_c\d{15}.nc
VR1VCW_WX00_chlora_nc	VR1VCW_C\d{7}_\S+_WX00_edgemask_chlora\.nc$	OC-WX00-VV750-CHLORA-GRN_v%r%_n20_s\d{15}_e\d{15}_c\d{15}.nc
VR1VCW_WY00_chlora_nc	VR1VCW_C\d{7}_\S+_WY00_edgemask_chlora\.nc$	OC-WY00-VV750-CHLORA-GRN_v%r%_n20_s\d{15}_e\d{15}_c\d{15}.nc
VR1VCW_VY00_chlora_nc	VR1VCW_C\d{7}_\S+_VY00_edgemask_chlora\.nc$	OC-VY00-VV750-CHLORA-GRN_v%r%_n20_s\d{15}_e\d{15}_c\d{15}.nc
VR1VCW_VX00_chlora_nc	VR1VCW_C\d{7}_\S+_VX00_edgemask_chlora\.nc$	OC-VX00-VV750-CHLORA-GRN_v%r%_n20_s\d{15}_e\d{15}_c\d{15}.nc

Product Group:	Ocean Color	
Satellites:	S-NPP	
Impact on Users:		
List of Scientific Changes:		
PDA Short Names	**PDA Filename Patterns (Old)**	**PDA Filename Patterns (New)**
L2VRSYCW	VRSYCW\.B\d{7}\.\d{6}\.nc$	OC-L2-VY750-NRTNIR-GRN_v%r%_npp_s\d{15}_e\d{15}_c\d{15}.nc

Product Group:	HISA	
Satellites:	N20,N21, SNPP, Metop-B, Metop-C	
Impact on Users:	Yes.	
List of Scientific Changes:	-Updated on MiRSv5 -Reduced duplicate product files -Fixed issue with the international dateline in product plots -Updated HISA PNG files for consistency with other product files	
PDA Short Names	**PDA Filename Patterns (Old)**	**PDA Filename Patterns (New)**

HISA_AFX	TC-RZA-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.nc	No change
HISA_FIX	TC-XYA-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.nc	No change
HISA_RZA	TC-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}_\d{2}\w.FIX	No change
HISA_XYA	TC-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.AFX	No change
HISA_STA	TC-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.STA	No change
HISA_T_PNG	HISA-T-\d{3}mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png	TC-T-\d{3}mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png
HISA_UVZ-200MB_PNG	HISA-UVZ-200mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png	TC-UVZ-200mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png
HISA_UVZ-250MB_PNG	HISA-UVZ-250mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png	TC-UVZ-250mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png
HISA_UVZ-300MB_PNG	HISA-UVZ-300mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png	TC-UVZ-300mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png
HISA_UVZ-400MB_PNG	HISA-UVZ-400mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png	TC-UVZ-400mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png
HISA_UVZ-500MB_PNG	HISA-UVZ-500mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png	TC-UVZ-500mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png
HISA_UVZ-600MB_PNG	HISA-UVZ-600mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png	TC-UVZ-600mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png
HISA_UVZ-700MB_PNG	HISA-UVZ-700mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png	TC-UVZ-700mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png
HISA_UVZ-850MB_PNG	HISA-UVZ-850mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png	TC-UVZ-850mb-(al|ep|cp|wp|io|sh)\d{6}_v\dr\d_\w{3}_s\d{15}_e\d{15}_c\d{15}.png

Please note: This upgrade will not be performed during Critical Weather Day (CWD).

Also, the contents of this release are subject to change based on user readiness, customer feedback, and management approval.

Additional ESPC notifications will provide further details and updates concerning this release. User feedback and questions should be directed to Liqun Ma (liqun.ma@noaa.gov), Sheekela Baker-Yeboah (sheekela.baker-yeboah@noaa.gov), or Aiwu Li (aiwu.li@noaa.gov).

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