U.S. NATIONAL WEATHER SERVICE

EMWIN Image and Text Data Capture Catalog

Version 1.3n

Document Control

Version Number	Version Description	Author(s)	Date Completed
V 0.1	Initial Document Draft	Gillespie	09/14/2016
V 1.0	Adds title page and Document Control page. Modifies the assigned product header and priority of the Atlantic and Eastern Pacific Basin Tropical Storm Products from NHC.	Gillespie	03/01/2017
V 1.1	Adds storm graphics "Atlantic Basin Tropical Storm [NHC] 3-Day Forecast Track and Current Winds" and "Eastern Pacific Basin Tropical Storm [NHC] 3-Day Forecast Track and Current Winds"	Banks	10/02/2017
V 1.2	Modified the URLs and filenames for Titles 22, 23, 24 and 29. Added text for the radar image scaling.	Banks	01/26/2018
V 1.2a	Corrected URLs for the National Hurricane Center and for the image G02CIRUS.JPG.	Banks	02/06/2018
V 1.2b	Corrected file name extensions for GOES-R products to match the correct file type.	Banks	02/22/2018
V 1.2c	Updated the URLs for titles 32, 29, 28 and 27. Changed the file extension for title 32 to PNG.	Banks	06/22/2018
V 1.3	Updated entire document to be a single word document. Corrected multiple URLs to use https instead of http.	Banks	7/13/2018
V 1.3a	Corrected the filename for GOES-N on title 22 from G02CIRUS.JPG to G16CIRCUS.JPG.	Banks	8/03/2018
V 1.3b	NHC Trop Storm Track: AL 3-Day cone replaced by 5-Day cone (Title 44); added EP 5-Day cone product (Title 45).	Gillespie	8/17/2018
V 1.3c	Updated the URLs for titles 13, 14, 15, 16, and 17.	Banks	12/22/2020
V 1.3d	Updated URLs for titles 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 and 18	Banks	03/09/2021
V 1.3e	Updated URLs for titles 20, 25 and 30	Banks	07/02/2021
V 1.3f	Added a note to Title 18.	Banks	03/08/2022
V 1.3g	Updated the URLs for titles 1, 19 and 21	Banks	03/29/2022
V 1.3h	Updated all occurrences of DST to DSB	Banks	04/28/2022

V 1.3i	Updated the URLs for titles 20 and 25	Banks	08/05/2022
V 1.3j	Updated URLs for all of the radar images	Banks	09/09/2022
V 1.3k	Added titles 46 and 47 to the document	Banks	02/09/2023
V 1.3l	Title 02 is no longer available.	Banks	10/27/2023
V 1.3m	Updated the URLs for titles 19 and 21 Removed references to Ridge Lite from title 15	Fletcher	10/09/2024
V 1.3n	Updated notes for titles 42-45.	Fletcher	10/30/2024

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This document is controlled by the Dissemination Systems Branch (DSB), Office of Dissemination, US National Weather Service. Any comments or corrections to this release should be addressed to: nws.emwin.support@noaa.gov

1. **Overview**. The Emergency Managers Weather Information Network (EMWIN) File Image and Text Data Capture Catalog lists the text and image files disseminated by EMWIN. This document defines the "EMWIN broadcast product baseline" by the list of products contained herein. These products are captured by EMWIN from remote web sites and intended for public dissemination to provide user a heightened sense of situational awareness with regard to weather and water conditions and forecasts. The products described in this document are accessible by the general public, providing they have the commercial systems and services necessary to receive and display the product(s). The products are not encrypted.

2. **Catalog Format**. The product listing includes the following elements/characteristics:

a. Title

b. Uniform Resource Locator (URL), or file source web address" [1]

c. GOES-N series satellite EMWIN broadcast filename

d. GOES-R series satellite High Rate Information Transmission (HRIT)/EMWIN broadcast filename [2]

e. Description of the World Meteorological Organization (WMO) abbreviated header fields

f. EMWIN message priority

g. Visual representation of a typical image contained in the file

Note 1: The public also has the option to directly access the products over the Internet by visiting the product URL. There is however, no assurance that the listed URLs will remain open for public access in the future. Public access to these URLs is controlled by the owning organizations.

Note 2: The "EMWIN GOES-R Filename Convention Document" is found here:
http://www.nws.noaa.gov/emwin/index.htm#documents

3. **Product Baseline Management**.

a. The EMWIN Program Office, Dissemination Systems Branch (DSB), Office of Dissemination, US National Weather Service, maintains this product listing and is the authority for make changes to the product set and individual product descriptions.

b. Questions, comments and recommendations regarding this publication and the product set may be forwarded to the following email for review and consideration:

nws.emwin.support@noaa.gov

4. **Abbreviations**

Abbreviation	Explanation
DSB	Dissemination Systems Branch
EMWIN	Emergency Managers Weather Information Network
GOES	Geostationary Operational Environmental Satellite
HRIT	High Rate Information Transmission
NOAA	National Oceanic and Atmospheric Administration
URL	Uniform Resource Locator
US	United Sates of America
WMO	World Meteorological Organization

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5. EMWIN Image and Text Data Capture Products

Note: All radar images are reduced to 3/4 of the original image size prior to broadcast.

Title-01: Weather Satellite Ephemerides
URL: http://celestrak.com/NORAD/elements/weather.txt
GOES-N fn ephtwous.txt
GOES-R fn Z_NOXX10KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-EPHTWOUS.TXT

"Z"	Originating center local product identifier
T1	N - Notices
T2	O - METNO/WIFMA
A1A2	XX - For use when other designators are not appropriate
ii	10 - Unlisted
Pri	3
Rev	2018-08-17

METEOSAT-7
1 24932U 97049B 16062.50875964 ...
2 24932 10.0557 41.6922 0001990 ...
NOAA 15
1 25338U 98030A 16062.54962326 ...
2 25338 98.7829 66.4887 0011450 ...
METEOSAT-8 (MSG-1)
1 27509U 02040B 16062.14401054 ...
2 27509 4.0124 60.1514 0001744 ...
KALPANA-1 (METSAT 1)

Title-02: US Radar Cloud Tops - **DEACTIVATED**
URL: https://aviationweather.gov/data/obs/radar/radar_nav.gif
GOES-N fn radallus.gif
GOES-R fn Z_QATA00KKCIddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADALLUS.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
Rev	2018-07-10

Title-03: US Radar Mosaic - Great Lakes Sector [NWS]
URL: https://radar.weather.gov/ridge/standard/CENTGRLAKES_0.gif
GOES-N fn radgrtlk.gif
GOES-R fn Z_QATA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADGRTLK.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
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Title-04: US Radar Mosaic - Northeast Sector [NWS]
URL: https://radar.weather.gov/ridge/standard/NORTHEAST_0.gif
GOES-N fn radnthes.gif
GOES-R fn Z_QATA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADNTHES.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
Rev	2018-07-10

Title-05: US Radar Mosaic - Northern Rockies Sector [NWS]
URL: https://radar.weather.gov/ridge/standard/NORTHROCKIES_0.gif
GOES-N fn radrcknt.gif
GOES-R fn Z_QATA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADRCKNT.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
Rev	2018-07-10

Title-06: US Radar Mosaic - Pacific Northwest Sector [NWS]
URL: https://radar.weather.gov/ridge/standard/PACNORTHWEST_0.gif
GOES-N fn radpacnw.gif
GOES-R fn Z_QATA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADPACNW.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
Rev	2018-07-10

Title-07: US Radar Mosaic - Pacific Southwest Sector [NWS]
URL: https://radar.weather.gov/ridge/standard/PACSOUTHWEST_0.gif
GOES-N fn radpacsw.gif
GOES-R fn Z_QATA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADPACSW.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
Rev	2018-07-10

Title-08: US Radar Mosaic - Southeast Sector [NWS]
URL: https://radar.weather.gov/ridge/standard/SOUTHEAST_0.gif
GOES-N fn radsthes.gif
GOES-R fn Z_QATA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADSTHES.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
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Title-09: Us Radar Mosaic - Lower Mississippi Valley Sector [NWS]
URL: https://radar.weather.gov/ridge/standard/SOUTHMISSVLY_0.gif
GOES-N fn radsmsvy.gif
GOES-R fn Z_QATA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADSMSVY.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
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Title-10: US Radar Mosaic - Southern Plains Sector [NWS]
URL: https://radar.weather.gov/ridge/standard/SOUTHPLAINS_0.gif
GOES-N fn radsthpl.gif
GOES-R fn Z_QATA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADSTHPL.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
Rev	2018-07-10

Title-11: US Radar Mosaic - Southern Rockies Sector [NWS]
URL: https://radar.weather.gov/ridge/standard/SOUTHROCKIES_0.gif
GOES-N fn radrckst.gif
GOES-R fn Z_QATA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADRCKST.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
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Title-12: US Radar Mosaic - Upper Mississippi Valley Sector [NWS]
URL: https://radar.weather.gov/ridge/standard/UPPERMISSVLY_0.gif
GOES-N fn radumsvy.gif
GOES-R fn Z_QATA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADUMSVY.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
Rev	2018-07-10

Title-13: US Radar Mosaic - Alaska [NWS]
URL: https://radar.weather.gov/ridge/standard/ALASKA_0.gif
GOES-N fn radallak.gif
GOES-R fn Z_QABA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADALLAK.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	B - 90°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
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Title-14: Hawaii Radar Mosaic [NWS]
URL: https://radar.weather.gov/ridge/standard/HAWAII_0.gif
GOES-N fn radallhi.gif
GOES-R fn Z_QAFA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADALLHI.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	F - 90°W - 180° tropical belt
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
Rev	2018-07-10

Title-15: US Radar Mosaic [NWS]
URL: https://radar.weather.gov/ridge/standard/CONUS_0.gif
GOES-N fn radrefus.gif
GOES-R fn Z_QATA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADREFUS.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
Rev	2018-07-10

Title-16: National Weather Service WSR-88D Image from: GUA
URL: https://radar.weather.gov/ridge/standard/GUAM_0.gif
GOES-N fn radallgu.png
GOES-R fn Z_QAGA00PGUMddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADALLGU.PNG

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	G - 180° - 90°E tropical belt
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
Rev	2018-08-17

Title-17: National Weather Service WSR-88D Image from: JUA
URL: https://radar.weather.gov/ridge/standard/TJUA_0.gif
GOES-N fn radallpr.png
GOES-R fn Z_QAEA00TJSJddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-RADALLPR.PNG

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	A - Radar data
A1	E - 0° - 90°W tropical belt
A2	A - Analysis (00 hour)
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	3
Rev	2018-07-10

Title-18: NWS Day 3-7 U.S. Hazards Outlook
URL: http://www.cpc.ncep.noaa.gov/products/predictions/threats/hazards_d3_7_contours.png
GOES-N fn ushzthrt.png
GOES-R fn Z_QGTK98KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-USHZTHRT.PNG

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	G – Significant Weather
A1	T - 45°W - 180° northern hemisphere
A2	K - 72 hours forecast
ii	98 - Air properties for the Earth's surface
Pri	4
Rev	2018-08-17
NOTE*	These products are only created Monday through Friday. Please exercise caution using this outlook during the weekend

Title-19: East Africa / West Indian Ocean IR [METEOSAT]
URL: https://www.ssd.noaa.gov/eumet/indiano/ir4.jpg
GOES-N fn indcirus.jpg
GOES-R fn Z_EIIO00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-INDCIRUS.JPG

"Z"	Originating center local product identifier
T1	E - Satellite imagery
T2	I - Infrared
A1A2	IO - Indian Ocean area
ii	00 - (arbitrary)
Pri	4
Rev	2024-10-09

Title-20: Eastern Pacific Ocean area IR [NOAA]
URL: https://cdn.star.nesdis.noaa.gov/GOES18/ABI/FD/13/678x678.jpg
GOES-N fn g10fdius.jpg
GOES-R fn Z_EIPZ00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-G10FDIUS.JPG

"Z"	Originating center local product identifier
T1	E - Satellite imagery
T2	I - Infrared
A1A2	PZ - Eastern Pacific Area
ii	00 - (arbitrary)
Pri	4
Rev	2018-07-10

Title-21: Western North Pacific Area IR [MTSAT]
URL: https://www.ospo.noaa.gov/dimg/jma/fd/ir4/10.gif
GOES-N fn gms008ja.gif
GOES-R fn Z_EIPQ00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-GMS008JA.GIF

"Z"	Originating center local product identifier
T1	E - Satellite imagery
T2	I - Infrared
A1A2	PQ - Western North Pacific area
ii	00 - (arbitrary)
Pri	4
Rev	2024-10-09

Title-22: United States IR 2km - CONUS East View [NOAA]
URL: https://cdn.star.nesdis.noaa.gov/GOES16/ABI/CONUS/13/1250x750.jpg
GOES-N fn g16cirus.jpg
GOES-R fn Z_EINA00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-G16CIRUS.JPG

"Z"	Originating center local product identifier
T1	E - Satellite imagery
T2	I - Infrared
A1A2	NA - North America
ii	00 - (arbitrary)
Pri	4
Rev	2018-07-10

Title-23: RA-IV Atlantic Hurricane Basin IR 2km [NOAA]
URL: https://cdn.star.nesdis.noaa.gov/GOES16/ABI/SECTOR/taw/13/900x540.jpg
GOES-N fn g02hurus.jpg
GOES-R fn Z_EINT00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-G02HURUS.JPG

"Z"	Originating center local product identifier
T1	E - Satellite imagery
T2	I - Infrared
A1A2	NT - North Atlantic area
ii	00 - (arbitrary)
Pri	4
Rev	2018-07-10

Title-24: Puerto Rico IR 2km [NOAA]
URL: https://cdn.star.nesdis.noaa.gov/GOES16/ABI/SECTOR/pr/13/600x600.jpg
GOES-N fn imgsjupr.jpg
GOES-R fn Z_EIPU00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-IMGSJUPR.JPG

"Z"	Originating center local product identifier
T1	E - Satellite imagery
T2	I - Infrared
A1A2	PU - Puerto Rico
ii	00 - (arbitrary)
Pri	4
Rev	2018-07-10

Title-25: US West Coast IR 4km [NOAA]
URL: https://cdn.star.nesdis.noaa.gov/GOES18/ABI/SECTOR/wus/13/1000x1000.jpg
GOES-N fn g10cirus.jpg
GOES-R fn Z_EIUS00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-G10CIRUS.JPG

"Z"	Originating center local product identifier
T1	E - Satellite imagery
T2	I - Infrared
A1A2	US - United States of America
ii	00 - (arbitrary)
Pri	4
Rev	2018-07-10

Title-26: Caribbean Surface Analysis [NHC/NOAA]
URL: https://www.nhc.noaa.gov/tafb_latest/CAR_latest.gif
GOES-N fn CSA001us.gif
GOES-R fn Z_QYEA98KNHCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-CSA001US.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	Y - Observational plotted chart
A1	E - 0°-90°W tropical belt
A2	A - Analysis (00 hour)
ii	98 - Air properties for the Earth's surface
Pri	4
Rev	2018-07-10

Title-27: US Convective Outlook Day 1 [SPC/NOAA]
URL: https://www.spc.noaa.gov/products/outlook/day1otlk.gif
GOES-N fn moddy1us.gif
GOES-R fn Z_QETI00KWNSddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-MODDY1US.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	E - Precipitation
A1	T - 45°W - 180° northern hemisphere
A2	I - 24 hours forecast
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	4
Rev	2018-07-10

Title-28: US Convective Outlook Day 2 [SPC/NOAA]
URL: https://www.spc.noaa.gov/products/outlook/day2otlk.gif
GOES-N fn moddy2us.gif
GOES-R fn Z_QETQ00KWNSddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-MODDY2US.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	E - Precipitation
A1	T - 45°W - 180° northern hemisphere
A2	Q - 48 hours forecast
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	4
Rev	2018-08-17

Title-29: US Watches, Warnings & Advisories
URL: https://forecast.weather.gov/wwamap/png/US.png
GOES-N fn imgwwaus.png
GOES-R fn Z_QGTA98KWNSddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-IMGWWAUS.PNG

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	G - Significant weather
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis
ii	98 - Air properties for the Earth's surface
Pri	4
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Title-30: North American Sounder CAPE [NOAA/GOES]] - **DEACTIVATED**
URL: http://www.ssd.noaa.gov/PS/PCPN/DATA/RT/NA/GCAPE/20.jpg
GOES-N fn imgsndus.jpg
GOES-R fn Z_EYUS00KWBCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-IMGSNDUS.JPG

"Z"	Originating center local product identifier
T1	E - Satellite imagery
T2	Y - User specified: Convective Available Potential Energy (CAPE)
A1A2	US - United States of America
ii	00 - (arbitrary)
Pri	4
Rev	2018-07-10

Title-31: WPC Fronts / NDFD Weather Type [NOAA]
URL: https://www.wpc.ncep.noaa.gov/basicwx/96fndfd.gif
GOES-N fn mod96fbw.gif
GOES-R fn Z_QGTI98KWNHddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-MOD96FBW.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	G - Significant weather
A1	T - 45°W - 180° northern hemisphere
A2	I - 24 hours forecast
ii	98 - Air properties for the Earth's surface
Pri	4
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Title-32: US Significant River Flood Outlook [NOAA]
URL: https://www.wpc.ncep.noaa.gov/nationalfloodoutlook/finalfop_nobounds.png
GOES-N fn gphj88us.png
GOES-R fn Z_QGTO88KWNSddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-GPHJ88US.png

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	G - Significant weather
A1	T - 45°W - 180° northern hemisphere
A2	O - 120 hours forecast (5 days)
ii	88 - Ground or water properties for the Earth's surface
Pri	4
Rev	2018-08-17

Title-33: US 6-Hour QPF 93e [WPC/NOAA]
URL: https://www.wpc.ncep.noaa.gov/qpf/93ewbg.gif
GOES-N fn mod93sus.gif
GOES-R fn Z_QETC00KWNHddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-MOD93SUS.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	E - Precipitation
A1	T - 45°W - 180° northern hemisphere
A2	C - 6 hours forecast
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	4
Rev	2018-07-10

Title-34: US Day 1 Excessive Rainfall Outlook [WPC/NOAA]
URL: https://www.wpc.ncep.noaa.gov/qpf/94ewbg.gif
GOES-N fn mod94sus.gif
GOES-R fn Z_QETI88KWNHddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-MOD94SUS.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	E - Precipitation
A1	T - 45°W - 180° northern hemisphere
A2	I - 24 hours forecast
ii	88 - Ground or water properties for the Earth's surface
Pri	4
Rev	2018-07-10

Title-35: US 24-HR Day 1 QPF 94q [WPC/NOAA]
URL: https://www.wpc.ncep.noaa.gov/qpf/94qwbg.gif
GOES-N fn modqp1us.gif
GOES-R fn Z_QETI00KWNHddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-MODQP1US.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	E - Precipitation
A1	T - 45°W - 180° northern hemisphere
A2	I - 24 hours forecast
ii	00 - Entire atmosphere (eg precipitable water)
Pri	4
Rev	2018-08-17

Title-36: US 24-HR Day 2 QPF 94q [WPC/NOAA]
URL: https://www.wpc.ncep.noaa.gov/qpf/98qwbg.gif
GOES-N fn modqp2us.gif
GOES-R fn Z_QETQ00KWNHddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-MODQP2US.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	E - Precipitation
A1	T - 45°W - 180° northern hemisphere
A2	Q - 48 hours forecast
ii	00 - Entire atmosphere (eg precipitable water)
Pri	4
Rev	2018-07-10

Title-37: US 6-HR QPF [WPC/NOAA]
URL: https://www.wpc.ncep.noaa.gov/qpf/fill_91ewbg.gif
GOES-N fn mod91eus.gif
GOES-R fn Z_QETC00KWNHddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-MOD91EUS.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	E - Precipitation
A1	T - 45°W - 180° northern hemisphere
A2	C - 6 hours forecast
ii	00 - Entire atmosphere (e.g. precipitable water)
Pri	4
Rev	2018-07-10

Title-38: North America 00Z Surface Analysis
URL: https://www.wpc.ncep.noaa.gov/sfc/namfntsfc00wbg.gif
GOES-N fn imgfnt00.gif
GOES-R fn Z_QPTA98KWNHddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-IMGFNT00.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	P - Pressure
A1	T - 45°W - 180° northern hemisphere
A2	A - Analysis (00 hour)
ii	98 - Air properties for the Earth's surface
Pri	4
Rev	2018-07-10

Title-39: North America 06Z Surface Analysis
URL: https://www.wpc.ncep.noaa.gov/sfc/namfntsfc06wbg.gif
GOES-N fn imgfnt06.gif
GOES-R fn Z_QPTC98KWNHddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-IMGFNT06.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	P - Pressure
A1	T - 45°W - 180° northern hemisphere
A2	C - 6 hours forecast
ii	98 - Air properties for the Earth's surface
Pri	4
Rev	2018-07-10

Title-40: North America 12Z Surface Analysis
URL: https://www.wpc.ncep.noaa.gov/sfc/namfntsfc12wbg.gif
GOES-N fn imgfnt12.gif
GOES-R fn Z_QPTE98KWNHddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-IMGFNT12.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	P - Pressure
A1	T - 45°W - 180° northern hemisphere
A2	E - 12 hours forecast
ii	98 - Air properties for the Earth's surface
Pri	4
Rev	2018-07-10

Title-41: North America 18Z Surface Analysis
URL: https://www.wpc.ncep.noaa.gov/sfc/namfntsfc18wbg.gif
GOES-N fn imgfnt18.gif
GOES-R fn Z_QPTG98KWNHddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-IMGFNT18.GIF

"Z"	Originating center local product identifier
T1	Q - Pictorial information regional (Binary coded)
T2	P - Pressure
A1	T - 45°W - 180° northern hemisphere
A2	G - 18 hours forecast
ii	98 - Air properties for the Earth's surface
Pri	4
Rev	2018-07-10

Title-42: Atlantic Basin Tropical Storm [NHC]
URL: https://www.nhc.noaa.gov/storm_graphics/AT03/AL032018_current_wind_sm2.png
GOES-N fn alNNYYrs.png (where NN = Storm Seq No; YY = Calendar Year)
GOES-R fn Z_PWEA98KNHCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-ALnnyyRS.PNG

"Z"	Originating center local product identifier
T1	P - Pictorial information (Binary coded)
T2	W - Wind
A1	E - 0° - 90°W tropical belt
A2	A - Analysis (00 hour)
ii	98 - Air properties for the Earth's surface
Pri	4
Rev	2018-07-10
Note*	Multiple AT storms per calendar year; folders AT01-AT30 pre-staged at NHC
Note*	Files larger than 5K are compressed and presented with .zip file extension
Note*	The URL listed was for the third storm of 2018. The URL for this image will be dependent on storms that occur during a calendar year. This image will not be available if storms have not been active.

Title-43: Eastern Pacific Basin Tropical Storm [NHC]
URL: https://www.nhc.noaa.gov/storm_graphics/EP11/EP112018_current_wind_sm2.png
GOES-N fn epNNYYws.png (where NN = Storm Seq No; YY = Calendar Year)
GOES-R fn Z_PWEA98KNHCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-EPnnyyWS.PNG

"Z"	Originating center local product identifier
T1	P - Pictorial information (Binary coded)
T2	W - Wind
A1	F - 90°W - 180° tropical belt
A2	A - Analysis (00 hour)
ii	98 - Air properties for the Earth's surface
Pri	4
Rev	2018-07-10
Note*	Multiple AT storms per calendar year; folders EP01-EP30 pre-staged at NHC
Note*	Files larger than 5K are compressed and presented with .zip file extension
Note*	The URL listed was for the eleventh storm of 2018. The URL for this image will be dependent on storms that occur during a calendar year. This image will not be available if storms have not been active.

Title-44: Atlantic Basin Tropical Storm [NHC] 5-Day Forecast Track and Current Winds
URL: https://www.nhc.noaa.gov/storm_graphics/AT03/AL032018_5day_cone_with_line_and_wind_sm2.png
GOES-N fn alNNYY5d.png (where NN = Storm Seq No; YY = Calendar Year)
GOES-R fn Z_PWEA98KNHCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-ALnnyy5D.PNG

"Z" Originating center local product identifier
T1 P - Pictorial information (Binary coded)
T2 W - Wind
A1 E - 0° - 90°W tropical belt
A2 W - (not assigned)
ii 98 - Air properties for the Earth's surface
Pri 3
Rev 2018-08-17
Note* Multiple AT storms per calendar year; folders AT01-AT30 pre-staged at NHC
Note* Files larger than 5K are compressed and presented with .zip file extension
Note* The URL listed was for the third storm of 2018. The URL for this image will be dependent on storms that have occurred during a calendar year. This image will not be available if storms have not been active.

Title-45: Eastern Pacific Basin Tropical Storm [NHC] 5-Day Forecast Track and Current Winds
URL: https://www.nhc.noaa.gov/storm_graphics/EP14/EP142018_5day_cone_with_line_and_wind_sm2.png
GOES-N fn epNNYY5d.png (where NN = Storm Seq No; YY = Calendar Year)
GOES-R fn Z_PWFW98KNHCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-3-ALnnyy5D.PNG

"Z" Originating center local product identifier
T1 P - Pictorial information (Binary coded)
T2 W - Wind
A1 F - 90°W - 180° tropical belt
A2 W - (not assigned)
ii 98 - Air properties for the Earth's surface
Pri 3
Rev 2018-08-17
Note* Multiple EP storms per calendar year; folders EP01-EP30 pre-staged at NHC
Note* Files larger than 5K are compressed and presented with .zip file extension
Note* The URL listed was for the fourteenth storm of 2018. The URL for this image will be dependent on storms that have occurred during a calendar year. This image will not be available if storms have not been active.

Title-46: North Pacific Surface Analysis [OPC/NOAA]
URL: https://ocean.weather.gov/shtml/arctic/UA_LATEST.gif
GOES-N fn NPSA01US.gif
GOES-R fn Z_QYPN98...KWNMddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-NPSA01US.gif

"Z" Originating center local product identifier
T1 Q - Pictorial information regional (Binary coded)
T2 Y- Observational plotted chart
A1,A2 PN - North Pacific Area
A2 A - Analysis (00 hour)
ii 98 - Air properties for the Earth's surface
Pri 4
Rev 2022-12-05

Title-47: North Pacific Sea Ice [OPC/NOAA]
URL: https://www.weather.gov/images/afc/ice/CT.jpg
GOES-N fn NPIC01US.jpg
GOES-R fn Z_QIPN88...PAFCddhhmm_C_KWIN_yyyyMMddhhmmss_nnnnnn-4-NPIC01US.jpg

"Z" Originating center local product identifier
T1 Q - Pictorial information regional (Binary coded)
T2 I - Ice flow
A1,A2 PN - North Pacific Area
A2 A - Analysis (00 hour)
ii 88 - Water properties for the Earth's surface
Pri 4
Rev 2022-12-05