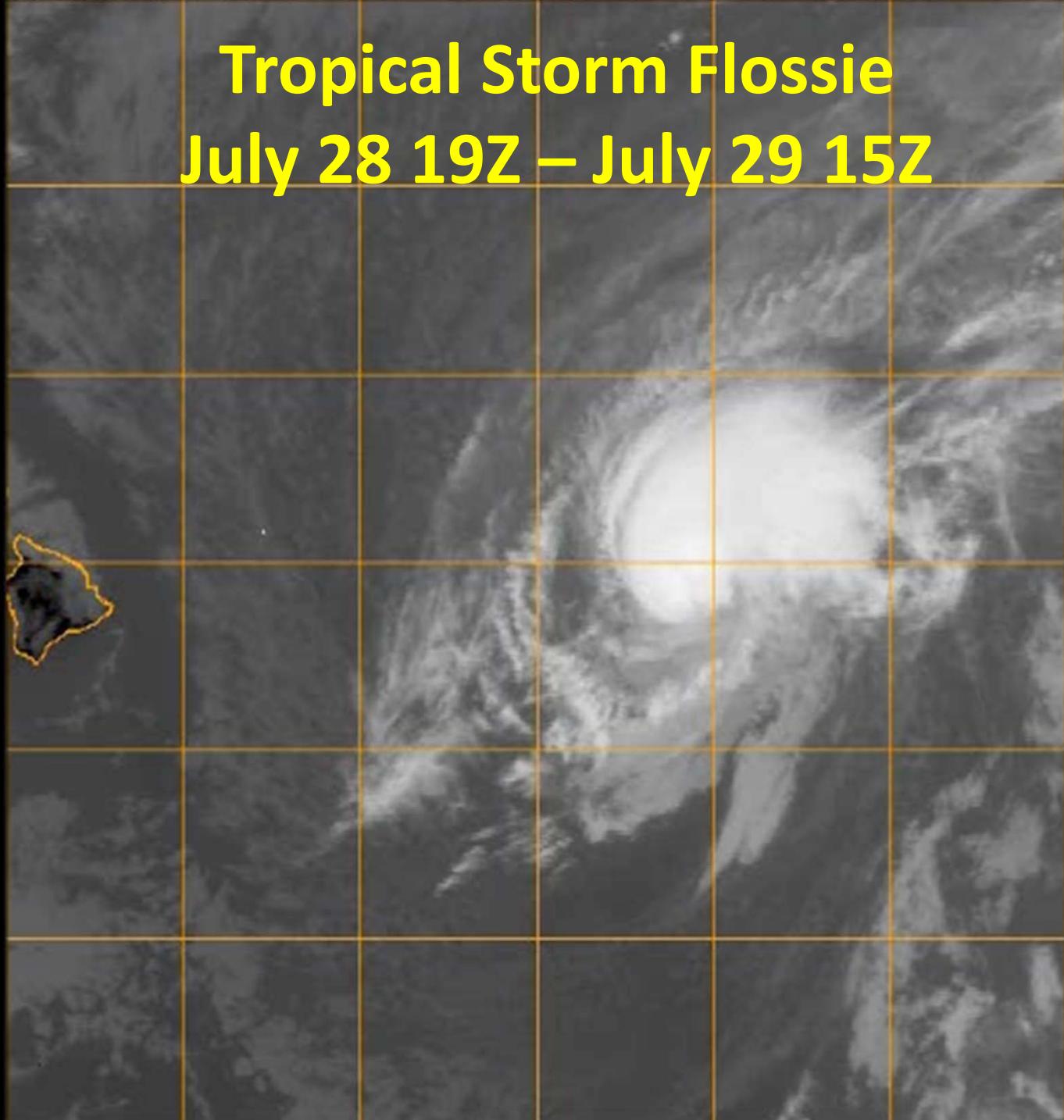


Forecasting Flossie: A Look at Using the Most Progressive Satellite Technology

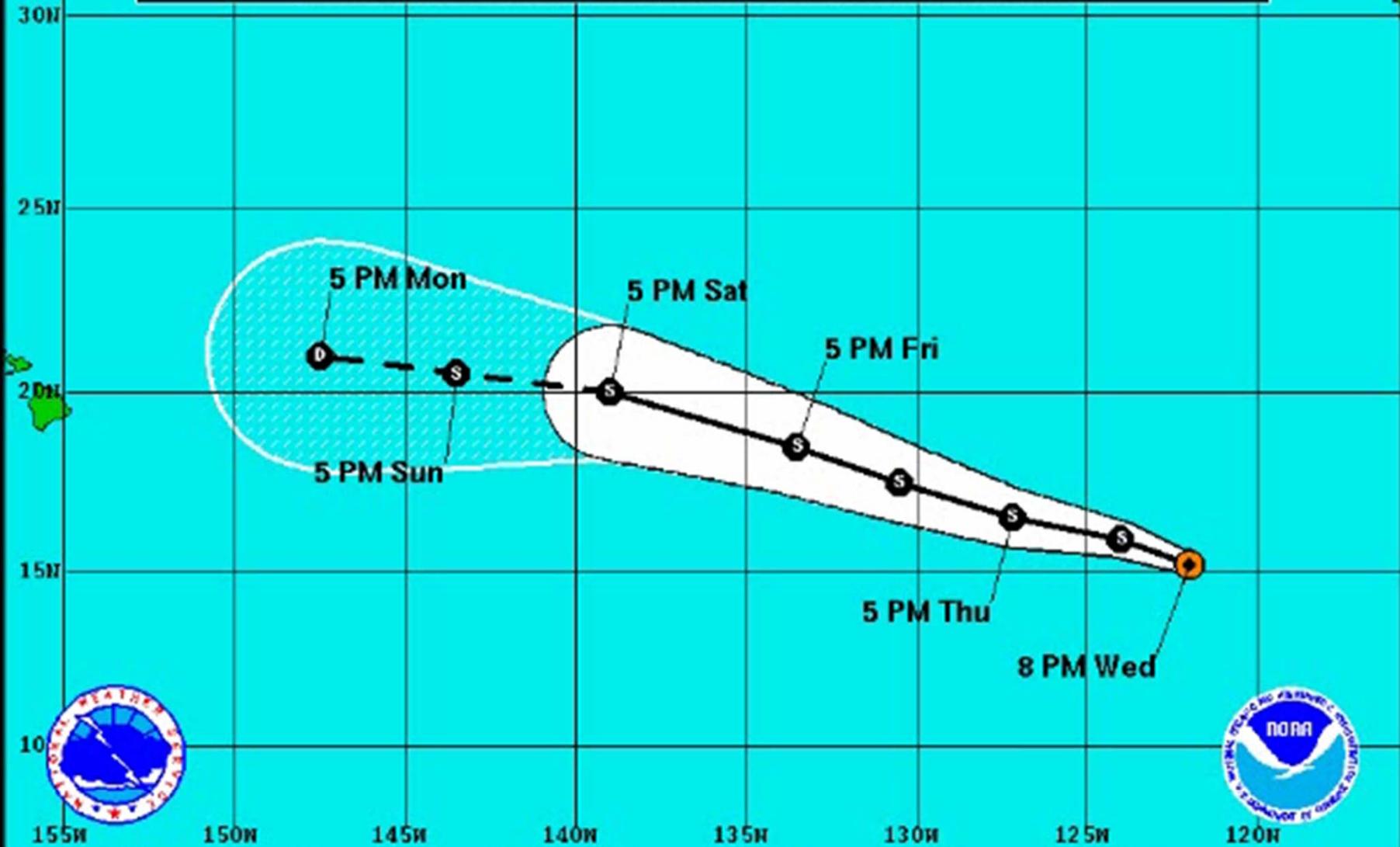
Tom Evans, Deputy Director
Central Pacific Hurricane Center

Tropical Storm Flossie

July 28 19Z – July 29 15Z



Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Tropical Depression Six-e
Wednesday July 24, 2013
8 PM PDT Advisory 1
NWS National Hurricane Center

Current Information: ●
Center Location 15.2 N 122.0 W
Max Sustained Wind 35 mph
Movement WNW at 14 mph

Forecast Positions:
● Tropical Cyclone ○ Post-Tropical
Sustained Winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential Track Area:

Day 1-3 Day 4-5

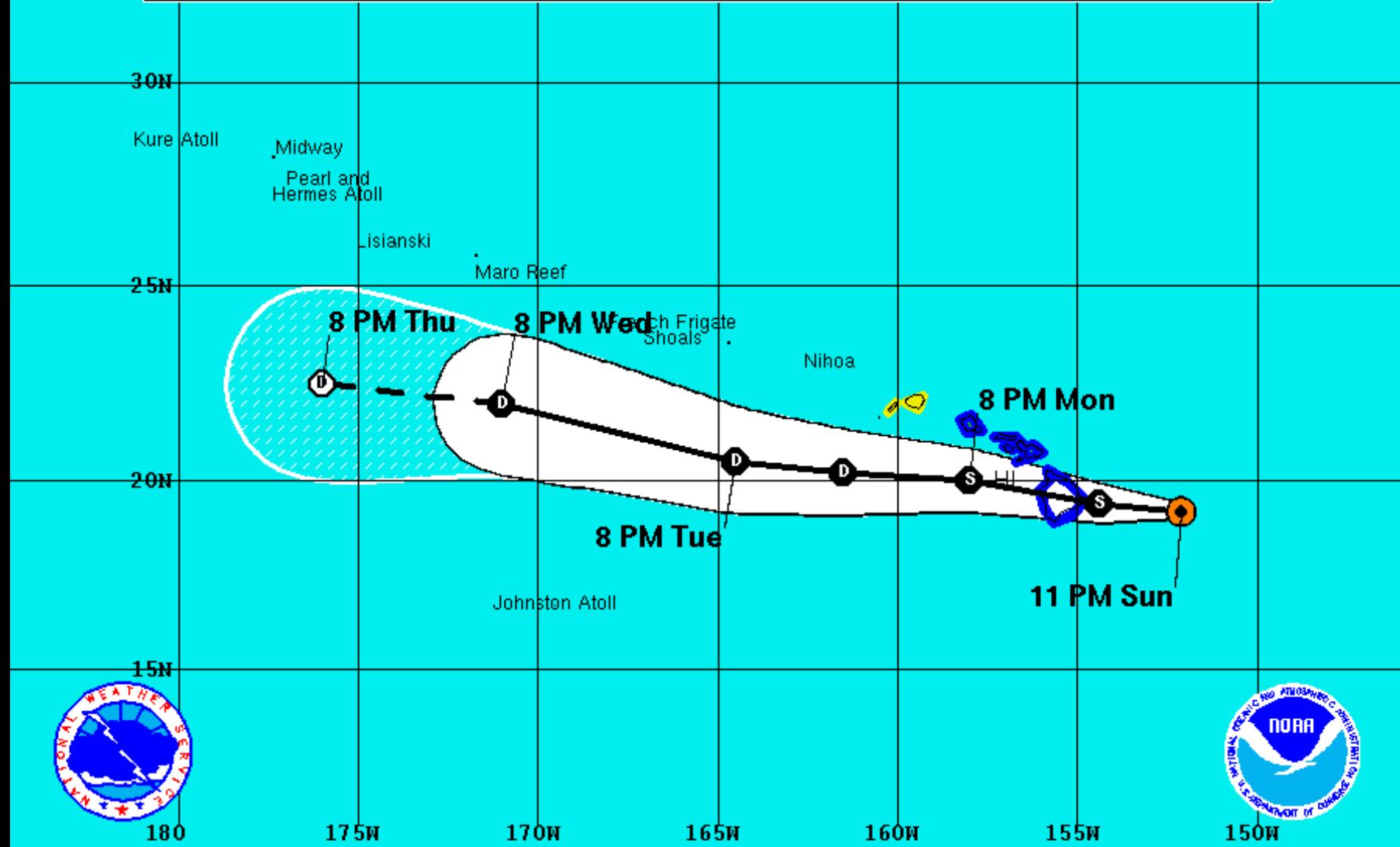
Watches:

Hurricane Trop.Storm

Warnings:

Hurricane Trop.Storm

Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Tropical Storm Flossie

Sunday July 28, 2013

11 PM HST Advisory 18

NWS Central Pacific Hurricane Center

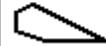
Current Information:

Center Location 19.2 N 152.1 W
Max Sustained Wind 50 mph
Movement W at 17 mph

Forecast Positions:

● Tropical Cyclone ○ Post-Tropical
Sustained Winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential Track Area:



Day 1-3



Day 4-5

Watches:



Hurricane



Trop. Storm

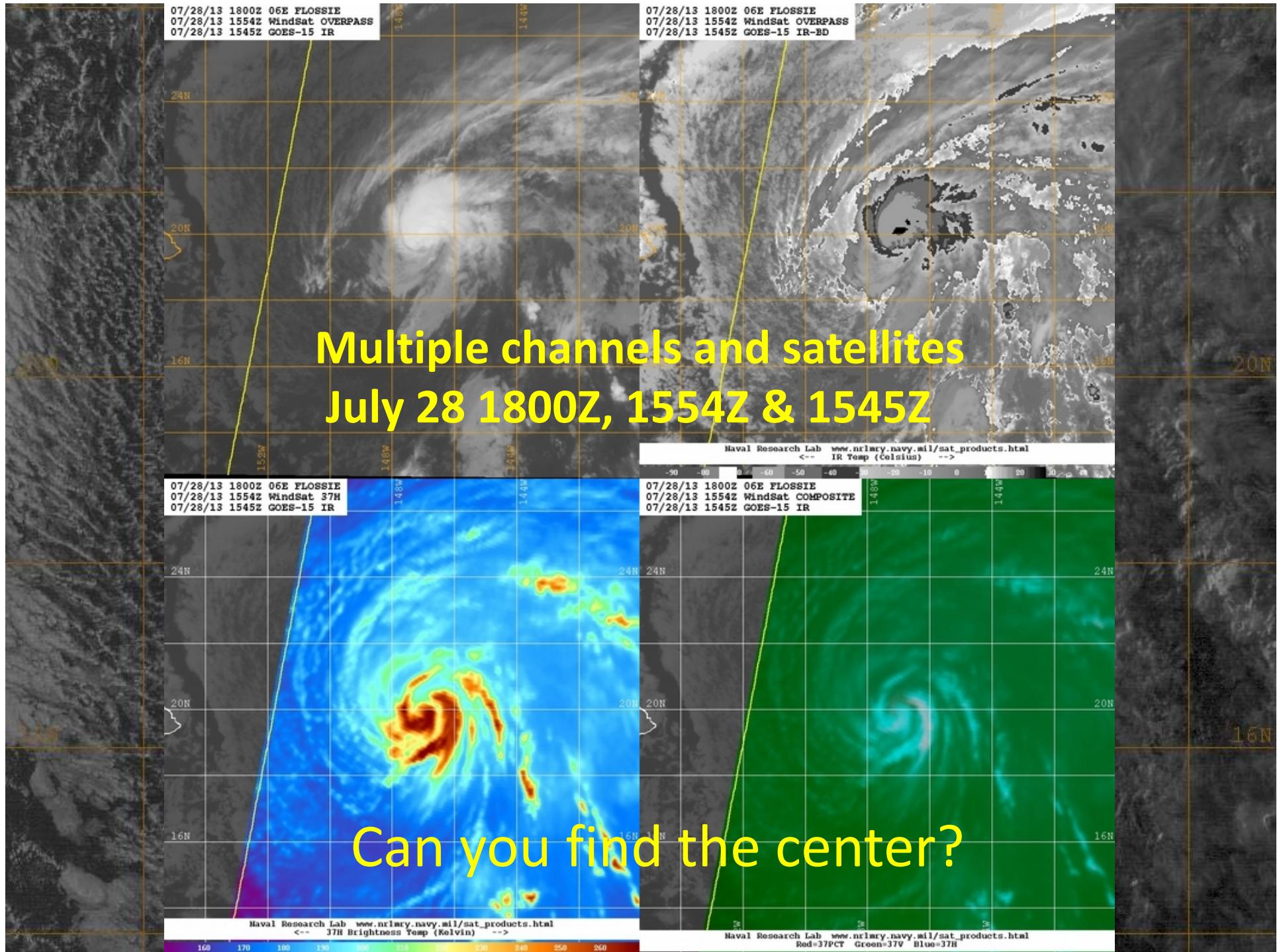
Warnings:



Hurricane



Trop. Storm



07/29/13 0600Z 06E FLOSSIE
07/29/13 1045Z GOES-15 IR

GOES-15 Infra-Red (IR) 1045-1130UTC

24N 150W 144W 24N

18N 18N

12N 12N

Can you find the center?

Naval Research Lab http://www.nrlmry.navy.mil/sat_products.html
<-- IR Temperature (Celsius) -->

-70 -60 -50 -40 -30 -20 -10 0 10 20

Other considerations

- Models now forced the track north of its previous forecast paths
- Critical time for final preparation of direct hit to Big Island (within a few hours of predicted landfall)
- What about the VIIRS night-visible band?

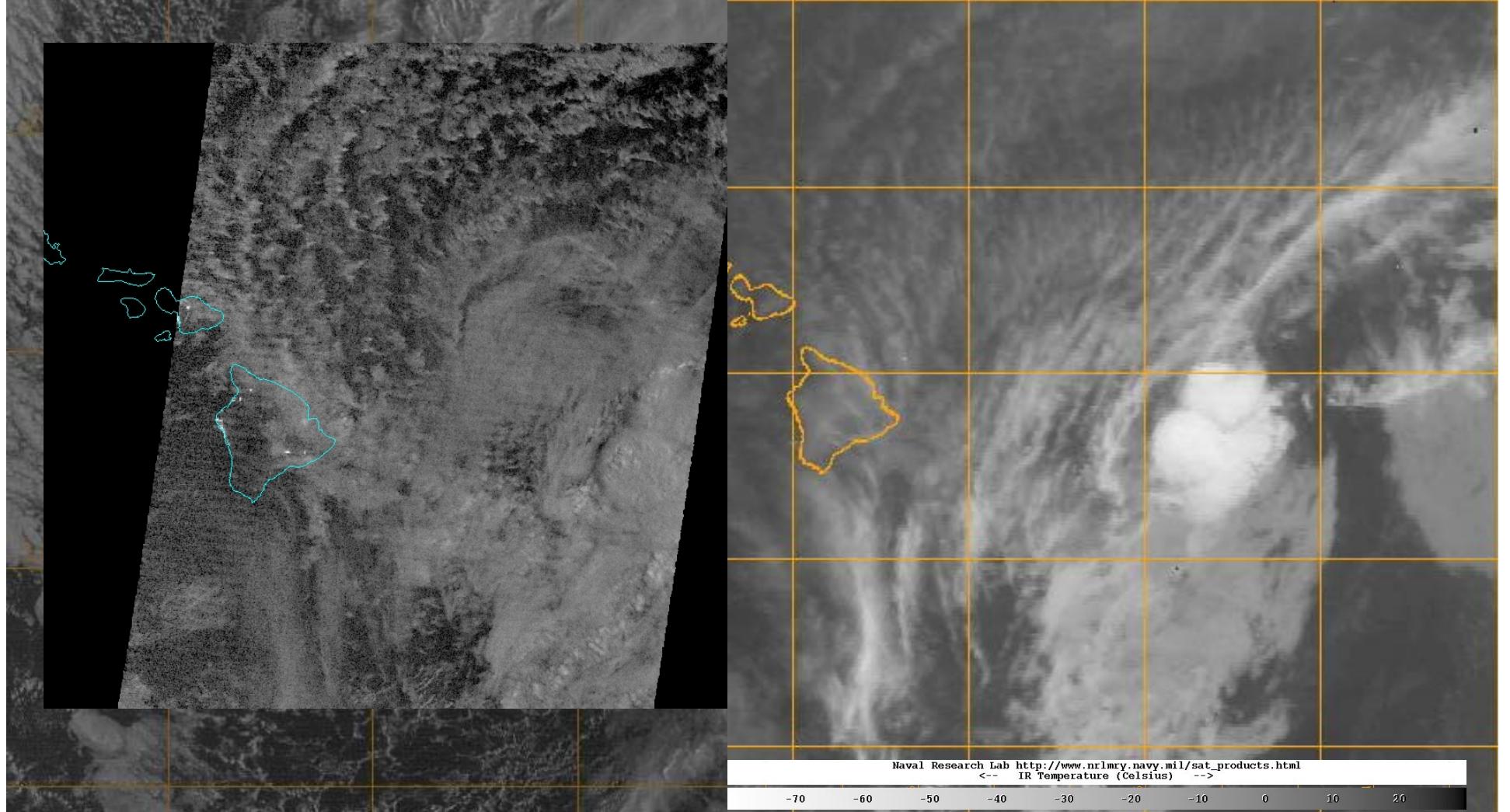
VIIRS
Night-Visible Band

Can you find the center?

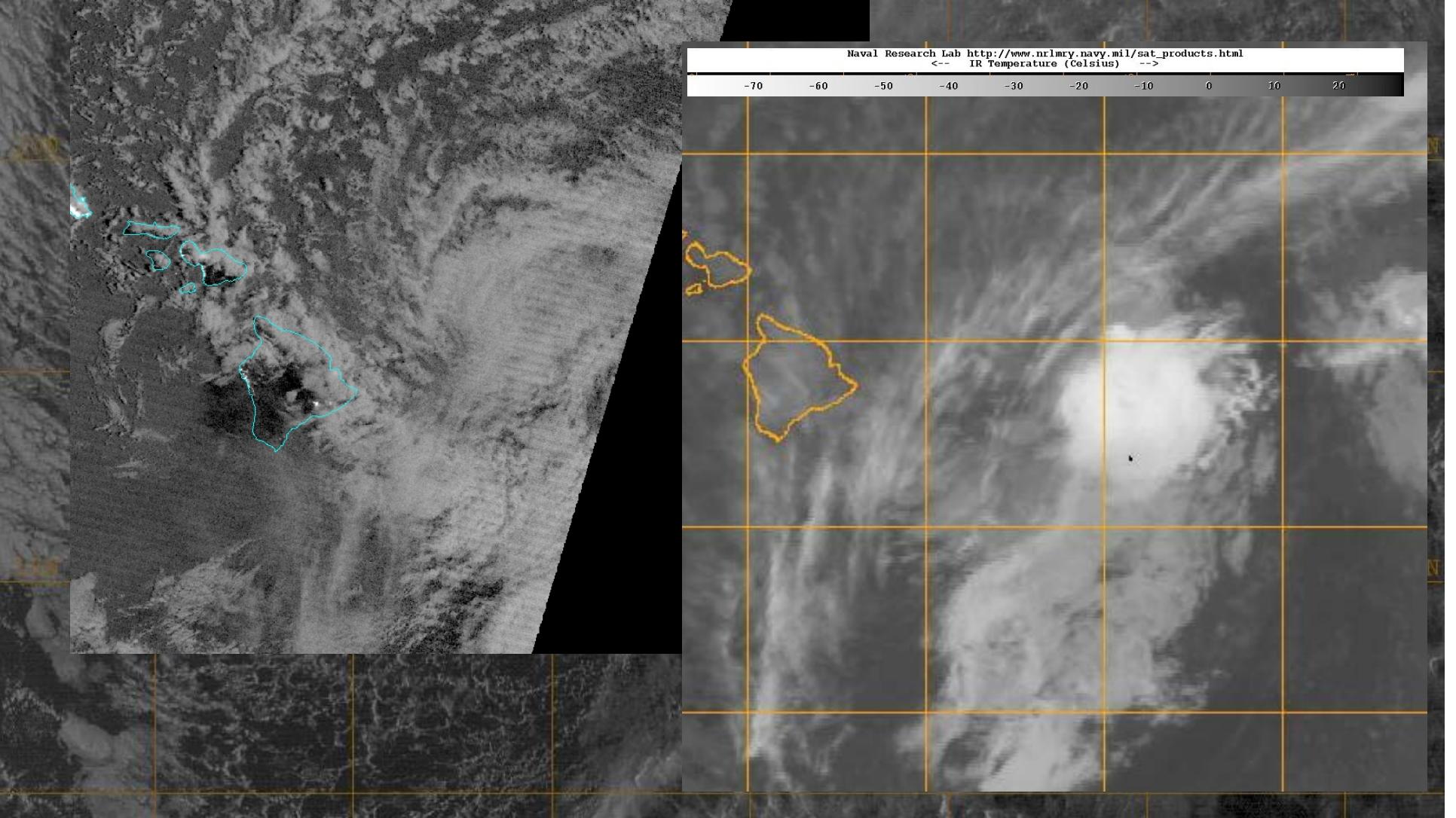
1102Z

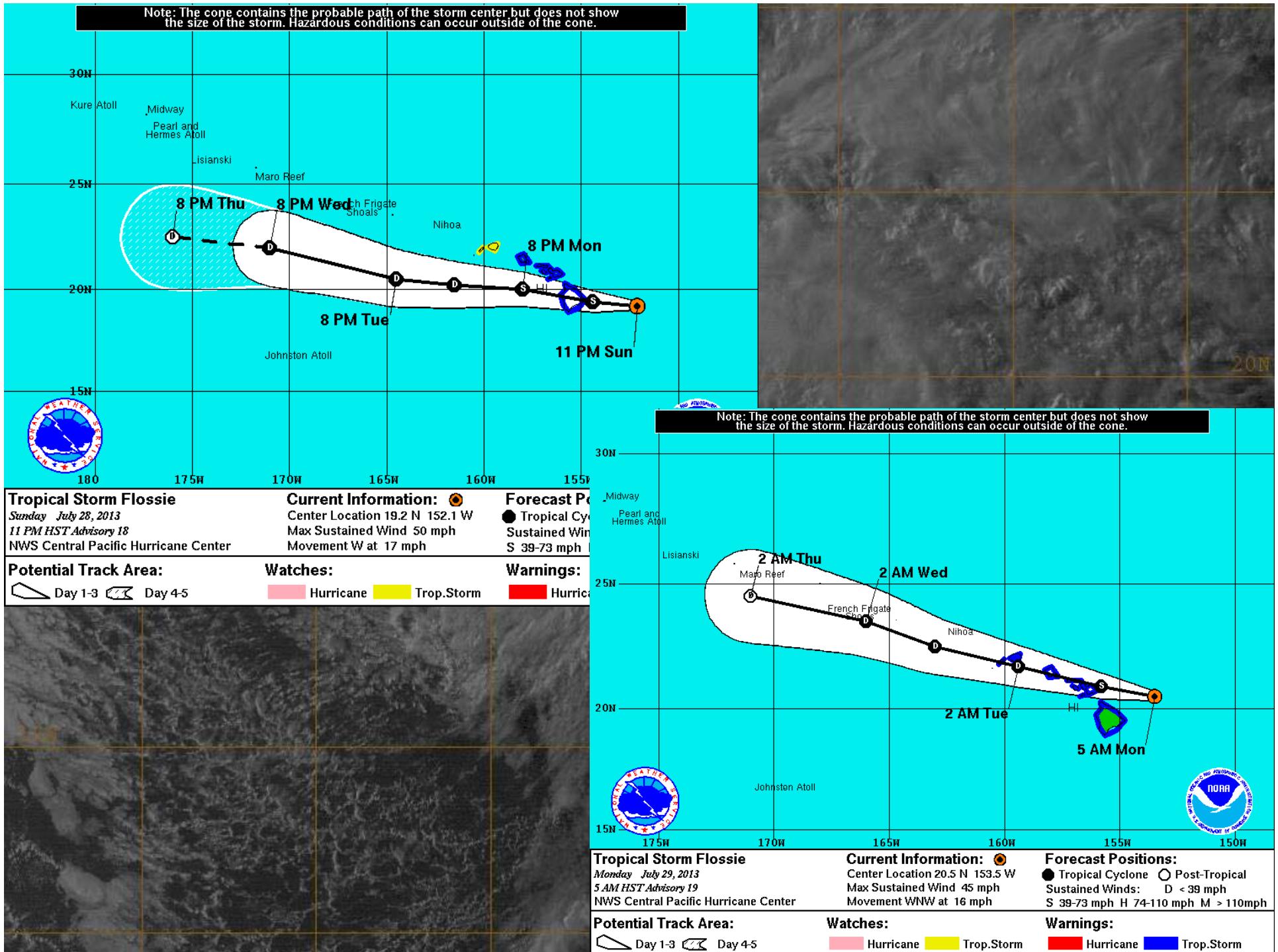
1242Z

Visible Infrared Imaging Radiometer Suite (VIIRS) Night-Visible Band and GOES-15 IR around 1100Z

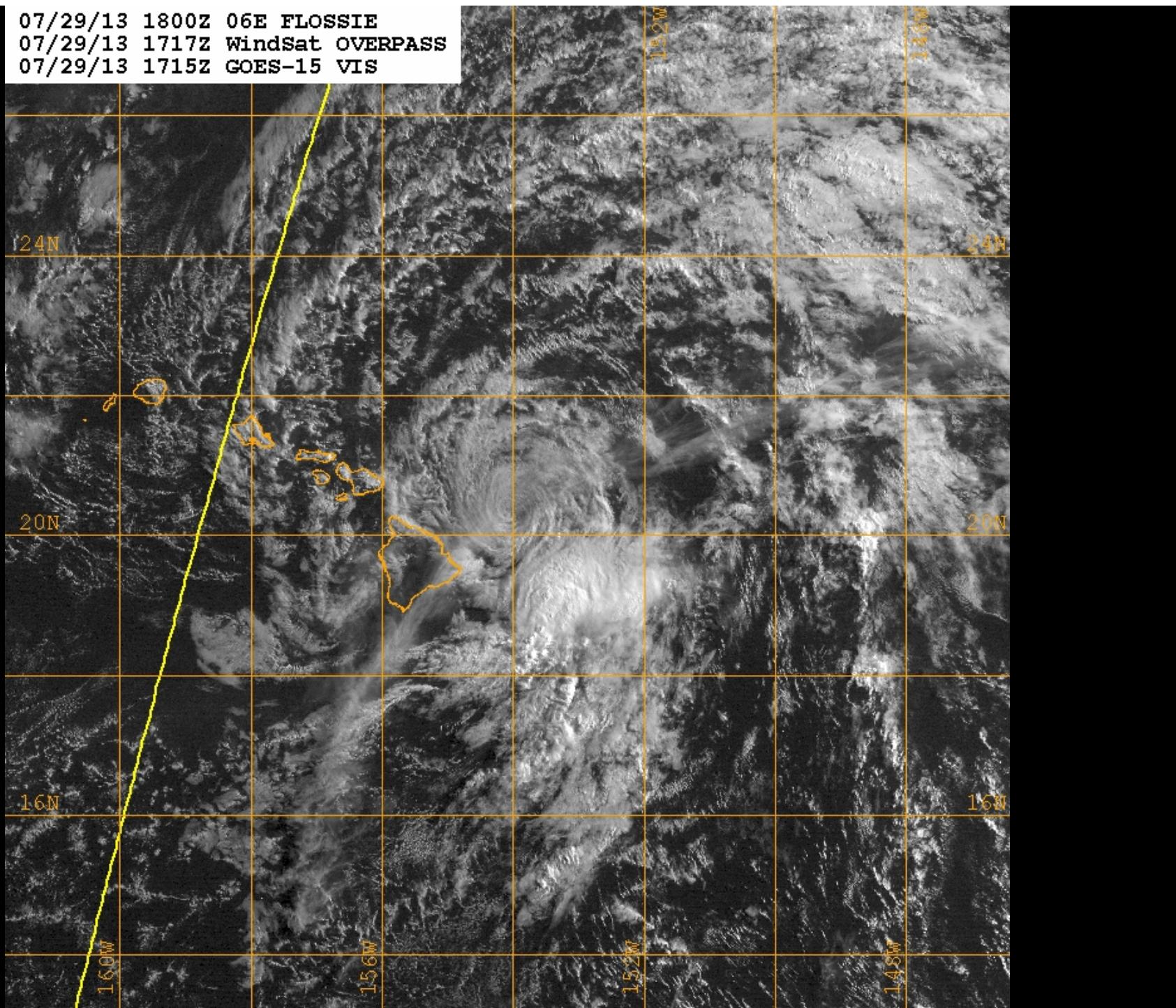


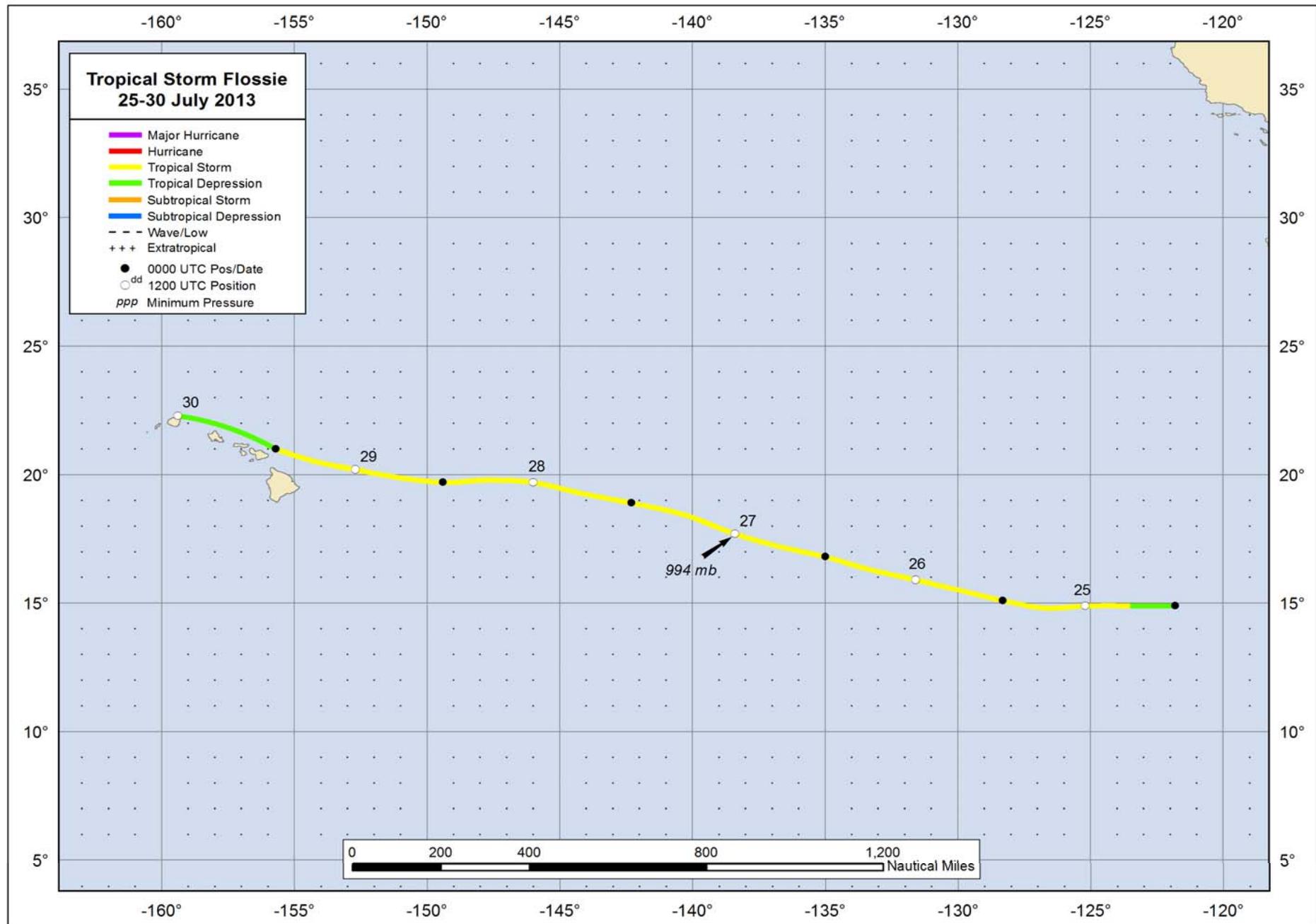
Visible Infrared Imaging Radiometer Suite (VIIRS) Night-Visible Band and GOES-15 IR around 1245Z





07/29/13 1800Z 06E FLOSSIE
07/29/13 1717Z WindSat OVERPASS
07/29/13 1715Z GOES-15 VIS





Resources used for presentation

- <http://www.ndbc.noaa.gov/obs.shtml>
- <http://www.nhc.noaa.gov/archive/2013/FLOSSIE.shtml>
- <http://www.prh.noaa.gov/cphc/tcpages/archive.php?stormid=EP062013>
- http://www.prh.noaa.gov/cphc/tc_graphics/latest_w.php?stormid=EP062013#start
- <http://www.nrlmry.navy.mil/tcdat/tc13/EPAC/>
- <http://weather.uwyo.edu/upperair/sounding.html>