






**2021 Transpac Race**  
**Tom Trujillo, Vice Commodore**  
**Race Chair/PRO**

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**Skipper Bag Handouts**  
**Final paperwork check,**  
**Covid 19 Affidavits, Tracker**  
**Handout**

Date	Monohull Divisions	Time/Location
Monday, July 12 <sup>th</sup>	Monohull Divisions 8	1600-1800 Los Angeles Yacht Club
Thursday, July 15 <sup>th</sup>	Monohull Divisions 5, 6, 7	1600-1800 Los Angeles Yacht Club
Friday, July 16 <sup>th</sup>	Monohull Divisions 1, 2, 3, 4	1600-1800 Los Angeles Yacht Club

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**2021 USB Drive in Lieu of**  
**Skipper Binders**  
**All Race Documents will be on**  
**USB drive**  
**All communications Information**  
**in last page Appendix of SI's**

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**Race Documents**  
**Notice of Race**  
**Amendment #5 is complete NOR**  
**Sailing Instructions**



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## Race Documents



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### APPENDIX 1 COMMUNICATIONS PROCEDURES AND INFORMATION

1.0 Listing of all race committee Email Addresses and Telephone Numbers  
[Info@transpac.com](mailto:Info@transpac.com) (for Daily Position Reports, will be automatically forwarded to race committee)  
[Race@transpac.com](mailto:Race@transpac.com) (for 100 Mile and 25 Mile Reports will be automatically forwarded to TRANSPAC RACE HQ, the Start & race committee)  
 Transpac race committee: **424-952-6588** Backup voice/SMS for Position Reports, other essential traffic. Also to be used for any emergency calls to the race committee.  
 TRANSPAC RACE HQ: **888-946-9061**  
 Backup voice for 100 Mile and 25 Mile Reports and other essential traffic. After July 30, 2021 use this voice number to report finish times per 10.9

**Please use the boat's fixed VHF with masthead antenna for all VHF transmissions.**  
 VHF 71 Transpac race committee at the Start  
 VHF 71 Diamond Head Lighthouse Finish  
 VHF 68 All Vial Escort after the Finish

2.0 **YB Tracker Low Bandwidth Links:** <https://yb.tl.links/Transpac2021>

**HYM Leaderboard:** <https://yb.tl.links/Transpac2021>  
**Start:** <https://yb.tl.links/Transpac2021>  
<https://yb.tl.links/Transpac2021>  
<https://yb.tl.links/Transpac2021>

**Expedition:** Recent versions of Expedition have a YB Tracking option which requires this code: [Transpac2021](https://yb.tl.links/Transpac2021)



**Photos:** <https://yb.tl.links/Transpac2021>  
<https://yb.tl.links/Transpac2021>  
<https://yb.tl.links/Transpac2021>

**Address:** <https://yb.tl.links/Transpac2021>  
<https://yb.tl.links/Transpac2021>

**Google Maps (HYM):** <https://yb.tl.links/Transpac2021>  
**YB Tracker:** <https://yb.tl.links/Transpac2021>  
**Text Leaderboard (all classes):** <https://yb.tl.links/Transpac2021>

3.0 **USCG Coast Guard Notice to Mariners**  
 District 11 (CA, NV, AZ, UT): <http://www.navcom.nvccg.gov/?pageName=theDistrict&region=11>  
 District 14 (HI and remote PAC islands): <https://www.navcom.uscg.gov/?pageName=theDistrict&region=14>

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## While Racing:

### Outside Help, Information, Weather

NOR 14.3, RRS 41(c) no "paid" outside weather, routing information. Caution on \*anyone\* on the crew using a paid/subscription (i.e. Predict Wind, others) based weather service. They could inadvertently break the rule...switch to non-fee weather reports

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## Start:

Review SI 6.3 Check in with RC by sailing past RC boat and being "visually identified" by RC  
 Review SI 3 Schedule  
 SI 4.2 Class Flags

Transpac 2021 Class Flag  
 Warrior II-Grand Banks 46' as signals boat\*  
 Orange Tetrahedron as Pin

*\*SI 6.2\*....There may be a limiting buoy to protect the Race Committee boat\**

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**After Start:**

**SI 7.4 West End Special Position**

**Report to**

[posreport@transpacyc.com](mailto:posreport@transpacyc.com)

SI 7.4 "...Boats failing to successfully transmit the boat's position at the West End via email shall be protested with a penalty of up to four positions in their finish placement in class and overall. ..."

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**While Racing:**



**SI 7.1 0800PDT to**

[posreport@transpacyc.com](mailto:posreport@transpacyc.com)

**Please follow format in SI 7.2**

*New to 2021 – Covid symptoms, or fever*

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**While Racing:**

YB tracking 4 hours delayed, except for the RC daily standings report, "live" 0800PDT positions



Daily standings will be emailed in a text format, will include 0800PDT lat/lon, distance to go, current standings

YB Tracking goes "live" within 200NM of Honolulu.

*YB "Line Honors" ETA's do NOT use ratings*

*ORR Overall and Individual Class Standings DO use ratings*

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**While Racing:**

Required Approach Reports (Position & ETA):

SI 9

100-mile	Email
25-mile	Email
5-mile	<b>Phone in to RaceHQ</b>

***But....note that Honolulu Arrival reporting does not replace or relieve you of daily 0800PDT reports!***

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**While Racing:  
Honolulu Arrival**

SI 12.2.2 "Boats shall follow all post race instructions for their safety and the safety of all involved. Failure to follow a post race command of the Race Committee shall be grounds for protest"

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**Notice Board**



**NOR 1.1**

**transpacyc.com**

Emailed protests  
SI 10.1

*All protests will be submitted via email to:  
protests@transpacyc.com*

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**Navigator debrief**

**1000HST**

**Tuesday, 7/27**

**WYC Yacht Club**

2021 Transpac RaceHonoluluCommitteeBriefing 15 7/6/2021

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**Special "Opt-In Trophies"**

- **Storm Trysail Team Trophy**  
– Notify us no later than team's first start
- **Burla Media Trophy**
- **Corinthian Trophy**
- **Mark Rudiger Navigation Trophy**
- **Notify us by start**

*\*Trophy FAQ on USB drive and online at website*

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 We'll See You Here – Aloha! 



© Betsy Crowfoot / Ultimate Sailing


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## Transpac 2021 COVID-19 Requirements July 10th, 2021

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## COVID-19 Planning




- **December 2019** – contingency planning goals:
  - Be prepared if COVID-19 is still with us in July
  - Keep it simple/minimize impact on teams
- **January** – retained epidemiologist Sara Stone MSc
- **February** – initiated discussions with Hawaii Governors office
- **April** – Received approval to our plan from;
  - Governor
  - Department of Health
  - Incident commander
  - City & County of Honolulu
- **July 8** – New rules accepting proof of vaccination...requiring new plan

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## Risk Mitigation Plan




- Pre-race
  - Satisfy state of Hawaii travel requirements
- On course
  - Report any symptoms
- On arrival
  - If asymptomatic, self health check
  - If symptomatic, directed to holding dock to satisfy state of Hawaii testing & quarantine requirements

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## Hawaii Travel Requirements




- Prior to your start you and each member of your crew are required to set up a Safe Travels Hawaii account ([travel.hawaii.gov](https://travel.hawaii.gov)).
- **If fully vaccinated**, you must have proof of vaccination (CDC vaccine card) upon arrival
- **If not fully vaccinated**,
  - Hawaii requires PCR/NAAT test from "Trusted Testing Partner"
  - Within 72 hours of your start
  - Negative test result
- Pre-race affidavit: NOR 1.1, condition of entry without which your entry will not be complete, and you will not be started or scored. **Affidavit must be submitted to receive tracker.**

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## Safe Travels Site Issues




- Designed for air travel
  - Bugs and security obstacles
- work-around
  - airline, "other"
  - flight number "000"
  - departure location "other"
  - If you receive an error message disregard.
  - For vaccine cards --**No upload required but bring vaccine card on the race.**
  - For proof of negative test -- **more to follow but all should bring proof on the race**
- Screeners will manually approve your accounts based on crew list & issue QR codes while you're racing.

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## On the course




- **While racing, if a member of your crew develops symptoms consistent with COVID-19, a COVID-19 update must be included in the Daily Roll Call.**
- This update must include the names and number of crew afflicted, the date/time of symptom onset, and severity of symptoms from mild to severe.
- If symptoms include an elevated temperature, then the thermometer reading should be included.
- Each subsequent update must acknowledge these ongoing cases.

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## Upon Arrival




- A health check will be required upon arrival in Hawaii. This will include self-attestation of asymptomatic status and a self temperature check.
- Should vessels have crew with symptoms consistent with COVID-19 on board, they will be asked to dock at specified holding docks and crew may be required to submit to testing for COVID-19, depending on vaccination status.
- Vaccinated crew are not subject to close contact quarantine requirements

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## Summary



1. All skippers & crew set-up Safe Travel Hawaii accounts
2. Owners/skippers -- Complete Affidavits
3. Bring vaccine cards and negative test proof on race for all on-board
4. Include thermometers in medical kit for health checks during race and upon arrival
5. Sail Safe ... Sail fast
6. Thanks to everyone for your cooperation & patience

Mahalo!

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## 2021 Transpac Race Skipper's Meeting

Honolulu Committee Chair  
John Henry  
[chairjohnh@gmail.com](mailto:chairjohnh@gmail.com) or 808-783-3491  
July 10, 2021



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## Agenda


- The Finish
- Escort Boats
- Mooring
- Inspection / Release
- Aloha Greeting Parties
- Awards Presentations

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## The Finish

- Finish Line Committee is in the Lighthouse.
- Finish is fixed line of sight from Lighthouse across Diamond Head buoy.
- **Caution - dangerous reef inshore.**
- **Keep Diamond Head buoy to starboard.**



© Doug Gifford / Ultimate Sailing

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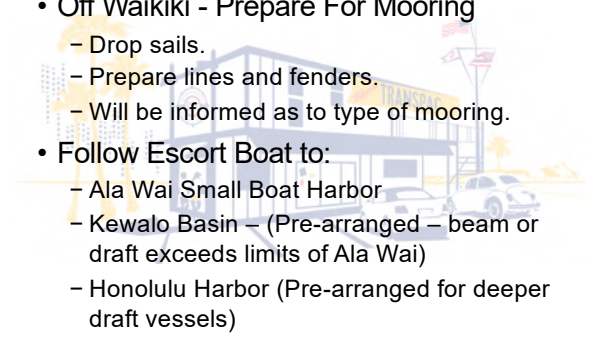



## The Finish (continued)

- Shine light on Mainsail numbers if finishing at night.
- Finish Committee will advise when you have finished.
- Record your own time and note boat in front and behind.
- Establish communication with your Escort ("Follow Me") Boat (leeward of Diamond Head) on VHF Channel 68.

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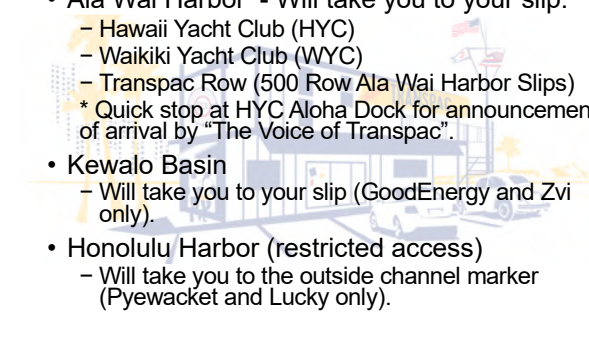
**Escort Boats**



- Off Waikiki - Prepare For Mooring
  - Drop sails.
  - Prepare lines and fenders.
  - Will be informed as to type of mooring.
- Follow Escort Boat to:
  - Ala Wai Small Boat Harbor
  - Kewalo Basin – (Pre-arranged – beam or draft exceeds limits of Ala Wai)
  - Honolulu Harbor (Pre-arranged for deeper draft vessels)

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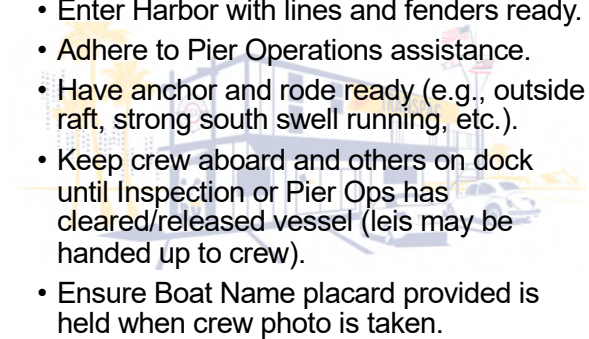
**Escort Boats (cont)**



- Ala Wai Harbor - Will take you to your slip.
  - Hawaii Yacht Club (HYC)
  - Waikiki Yacht Club (WYC)
  - Transpac Row (500 Row Ala Wai Harbor Slips)
  - \* Quick stop at HYC Aloha Dock for announcement of arrival by "The Voice of Transpac".
- Kewalo Basin
  - Will take you to your slip (GoodEnergy and Zvi only).
- Honolulu Harbor (restricted access)
  - Will take you to the outside channel marker (Pyewacket and Lucky only).

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**Mooring**



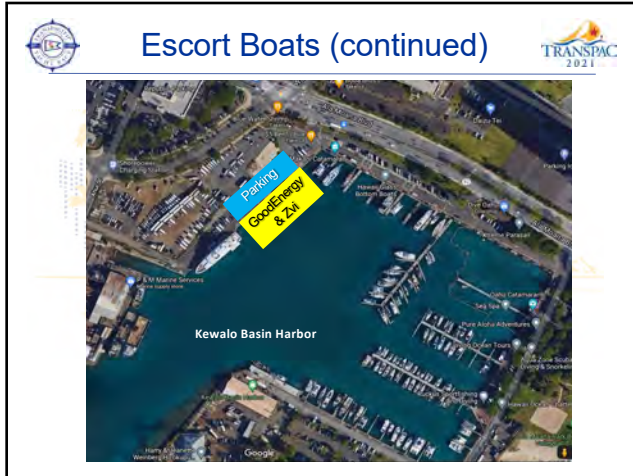
- Enter Harbor with lines and fenders ready.
- Adhere to Pier Operations assistance.
- Have anchor and rode ready (e.g., outside raft, strong south swell running, etc.).
- Keep crew aboard and others on dock until Inspection or Pier Ops has cleared/released vessel (leis may be handed up to crew).
- Ensure Boat Name placard provided is held when crew photo is taken.

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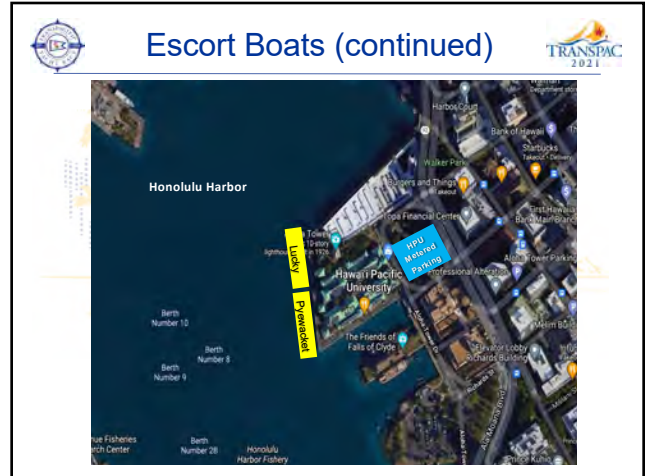
**Escort Boats (continued)**



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### Inspection / Release


- All vessels are subject to inspection.
  - If finishing in top 3 of Division presume you will be inspected upon arrival .
  - Inspector will be first to board upon arrival.
- Pier Ops will board to complete arrival process.
  - No one may disembark.
  - No one else may board.

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### Inspection / Release (cont)

- Pier Ops must ensure following items are completed before any crew can disembark:
  - Covid-19 Self-Attestation Form
  - State of Hawaii Plants and Animals Declaration Form
    - o Discard all fresh fruit and fresh vegetables before finishing.
  - YellowBrick Transponder\*
- Please ensure crew list and numbers are updated in Yacht Scoring.
  - Used to compare with Self-Attestation Form.
  - Used to provide Arrival Greeting provisions.
- To expedite release, complete the required documents before Pier Ops boards vessel.

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## Inspection / Release (cont)




- Photographer will take crew photo with boat name placard (and close up of crew shirt).
- Arrival Greeting Team will follow Pier Ops & Photographer.
  - Leis, beverage, fruit, light meal.
- Family & friends can join crew after Arrival Team; space & safety consideration.

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## Aloha Greeting Parties




- No TPYC-Sponsored Social Gatherings.
  - “Party Island”, Mount Gay Parties, Award Ceremony.
- Arrival Greeting Committee has prepared an appropriate greeting for all boats, within Covid-19 Protocol constraints.
  - Some Boats have prearranged arrival greetings.

A Challenging Year for Our Volunteers  
Please be gracious and say *Mahalo!!*


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## Aloha Greeting Parties (cont)



- Waikiki Yacht Club (WYC-Host Club) and Hawaii Yacht Club (HYC) have planned festivities to celebrate Transpac participants.
  - WYC – July 28<sup>th</sup>
  - HYC – July 29<sup>th</sup>
- Crew, family, friends can gain access to Waikiki and Hawaii Yacht Clubs by identifying as a Transpac Race participant.
  - Issued a Temporary Membership Card good for entry & authorizing credit card use.

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## Awards Presentation



- Either @ WYC or HYC
- Division Winners Only
  - You will be notified within 24 hours of finish as to presentation location.
- Video & Photo Opportunity
  - Families & friends may attend. Numbers based on local rules at the time.
- Take-home trophies handed out.



**NOTE: You must make arrangements to pick up take-home trophies!!**

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**Welina mai i ko  
mākou moku-puni!!**

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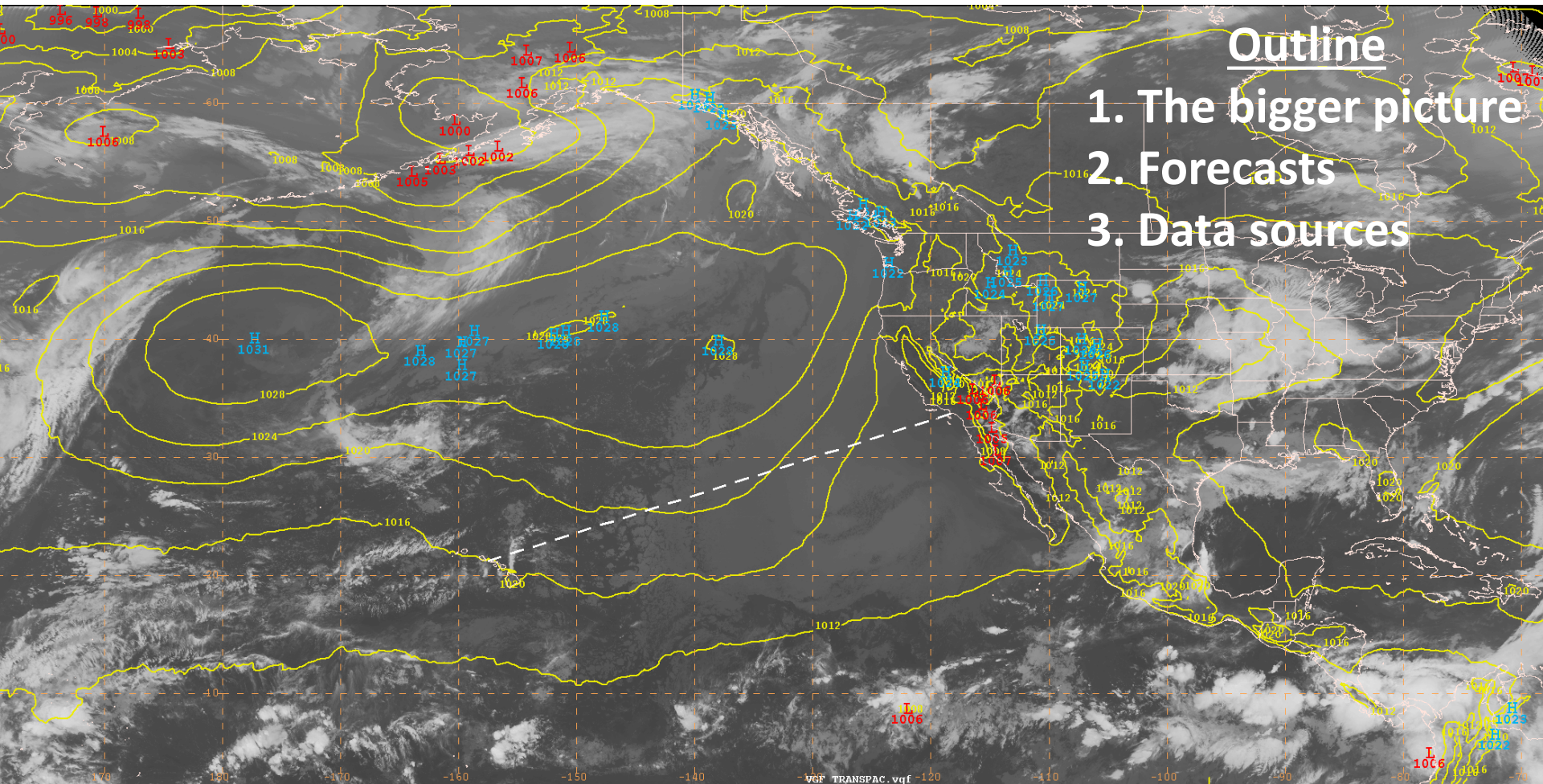
# Transpac - Weather Safety

Joe Sienkiewicz [joseph.sienkiewicz@noaa.gov](mailto:joseph.sienkiewicz@noaa.gov)  
NOAA/NWS Ocean Prediction Center

Jon Gottschalck  
NOAA/NWS Climate Prediction Center

<https://ocean.weather.gov>

<https://www.cpc.ncep.noaa.gov/products/GODAS/>



## Outline

1. The bigger picture
2. Forecasts
3. Data sources

# Take Home Messages

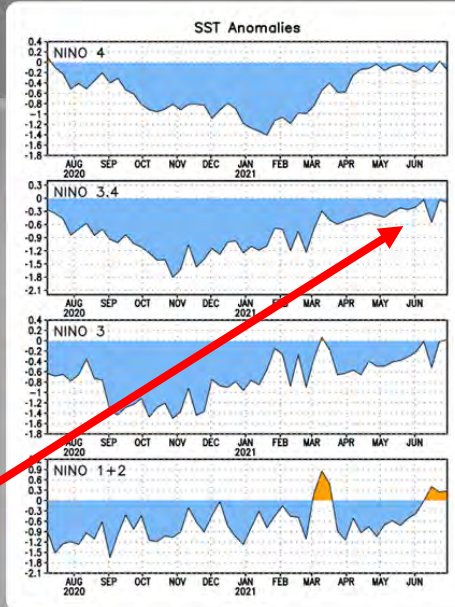
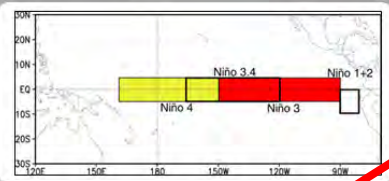
- El Nino-Southern Oscillation (ENSO)-neutral conditions present in the equatorial Pacific at the current time so modulation of the Trade winds (stronger or weaker) is not a factor this year.
- The Madden Julian Oscillation (MJO) has become more organized over the past week and the enhanced phase is currently centered in the Indian Ocean. The forecast is for the MJO to propagate eastward to and across the Indonesia region over the next 2-3 weeks. This favors:
  - Steady increase in the Trade winds as July progresses with favorable conditions for mid-July onwards
  - Below-normal EPAC tropical cyclone activity except for perhaps the first 5-7 days of the race period
- Subtropical 500-hPa height pattern and subtropical surface high support favorable race conditions at this time through the 3<sup>rd</sup> week of July. Taken in totality the anticipated conditions in 2021 appear to be better than 2019, at least during the first week of the event.
- The following slides show figures to support some of these thoughts.

# ENSO Neutral Conditions

## Niño Region SST Departures (°C) Recent Evolution

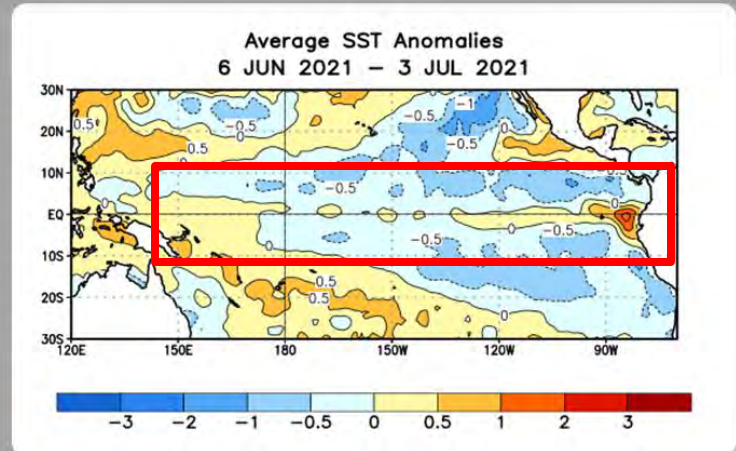
The latest weekly SST departures are:

Niño 4	-0.1°C
Niño 3.4	-0.1°C
Niño 3	0.0°C
Niño 1+2	0.3°C



## SST Departures (°C) in the Tropical Pacific During the Last Four Weeks

In the last four weeks, equatorial SSTs were near average across most of the equatorial Pacific Ocean, except for above-average SSTs in the far eastern Pacific Ocean.



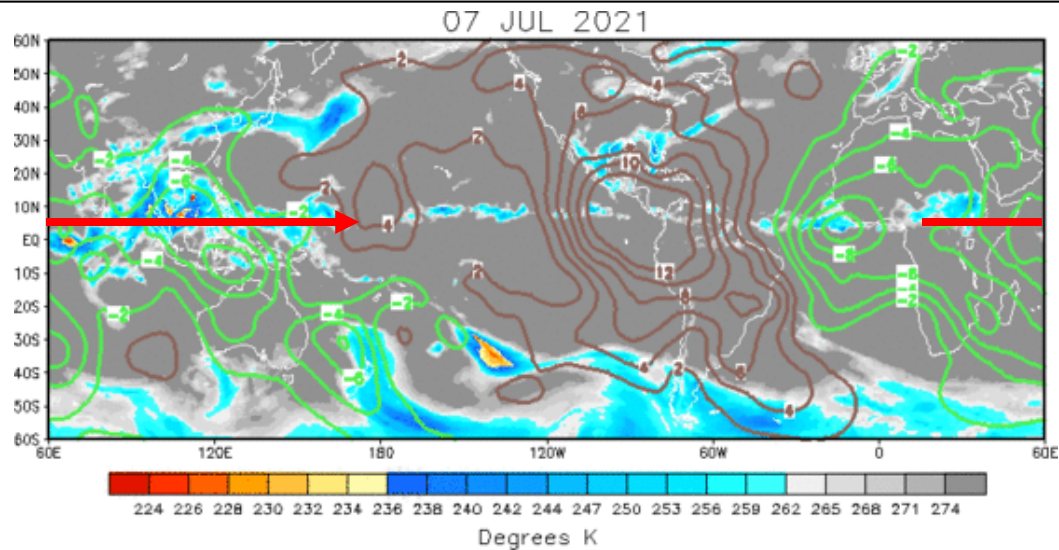
Trend in Niño region SST anomalies all trend toward and now near zero anomaly

Only small anomalies in the equatorial Pacific Ocean (red box)

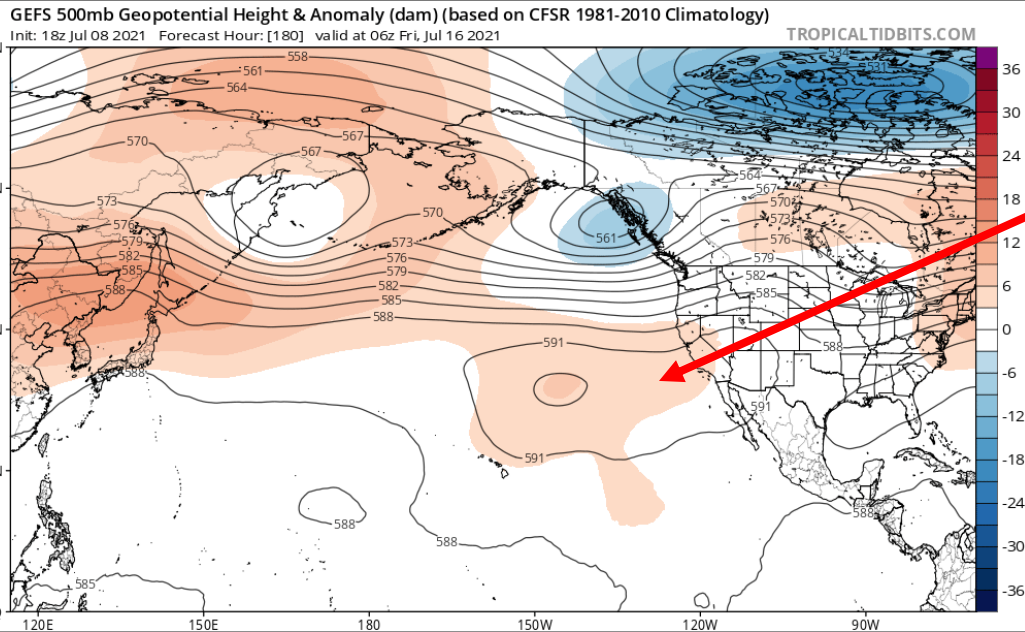
# MJO Active

Enhanced phase of MJO (green contours) centered over the Indian Ocean and is forecast to shift eastward to and across the Maritime continent during the next 2-3 weeks

This MJO evolution favors steady increase in Trade winds in the Pacific basin as July progresses and below-normal EPAC tropical cyclone activity for most of the race period (some potential early portion of race period (i.e., first 5-7 days))



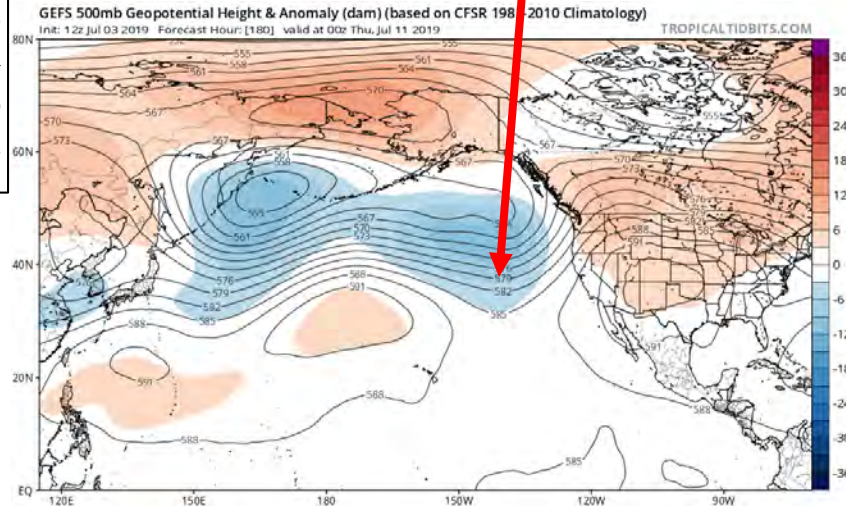
# Subtropical 500-hPa Height Pattern



GEFS 180 hour forecast for 7/16 (start)

Westerlies generally shifted to the north with somewhat enhanced east Pacific sub-tropical ridging

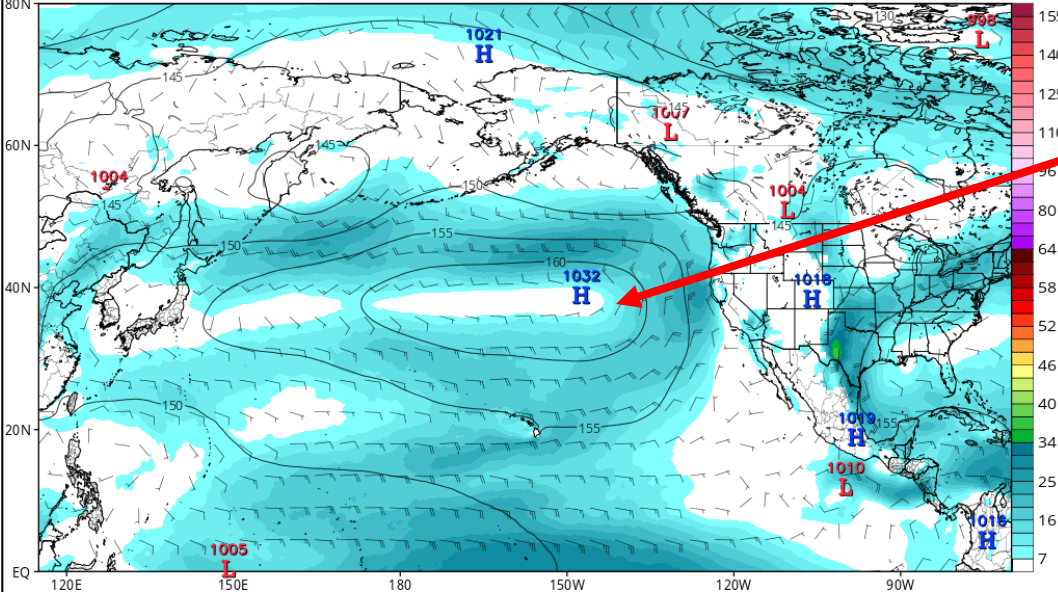
Compare this to similar period and forecast hour prediction for the July 2019 race start



# Subtropical Pacific High

GEFS 850 hPa Height (dam), Wind (kt), & MSLP Centers (hPa)  
Init: 18z Jul 08 2021 Forecast Hour: [180] valid at 06z Fri, Jul 16 2021

TROPICALTIDBITS.COM



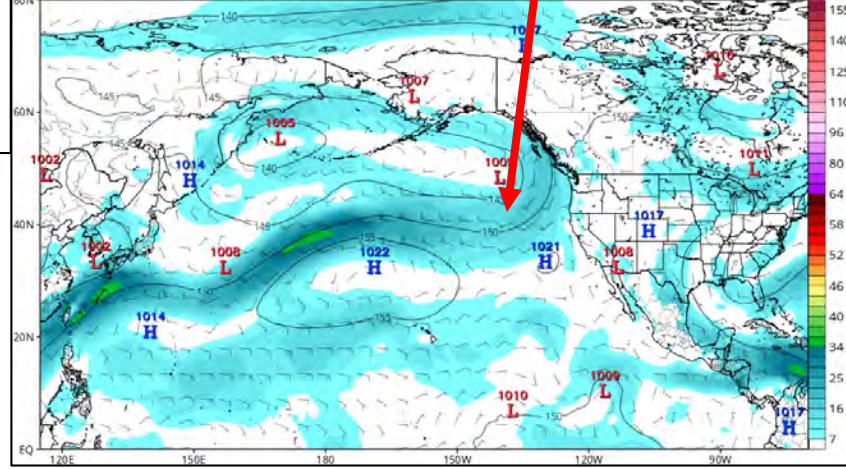
GEFS 180 hour forecast for 7/16 (start)

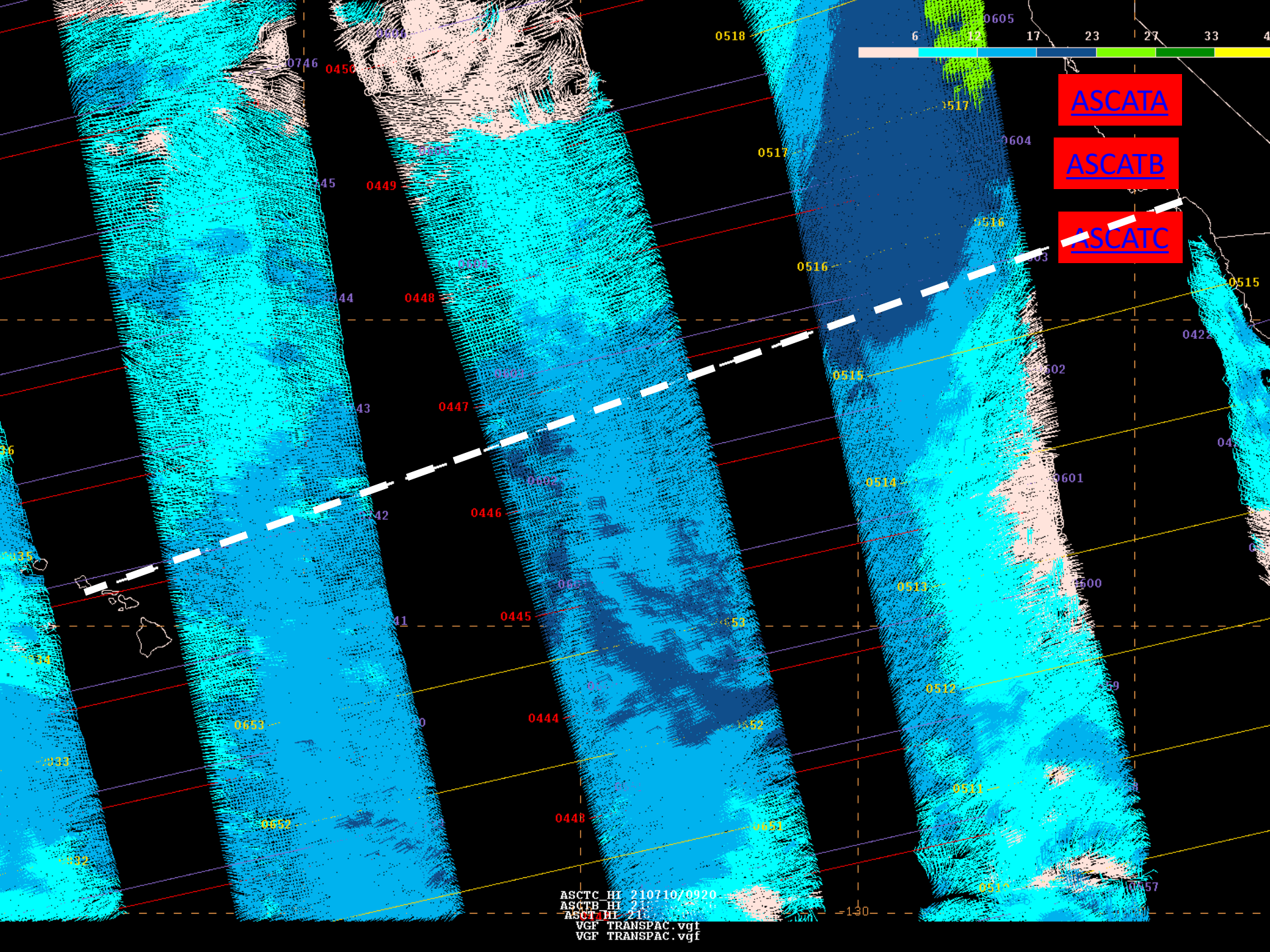
Strong low-level (850-hPa) high pressure and associated NE, easterly winds

Compare this to similar period and forecast hour prediction for the July 2019 race start (considerable less favorable in 2019)

GEFS 850 hPa Height (dam), Wind (kt), & MSLP Centers (hPa)  
Init: 12z Jul 03 2019 Forecast Hour: [180] valid at 00z Thu, Jul 11 2019

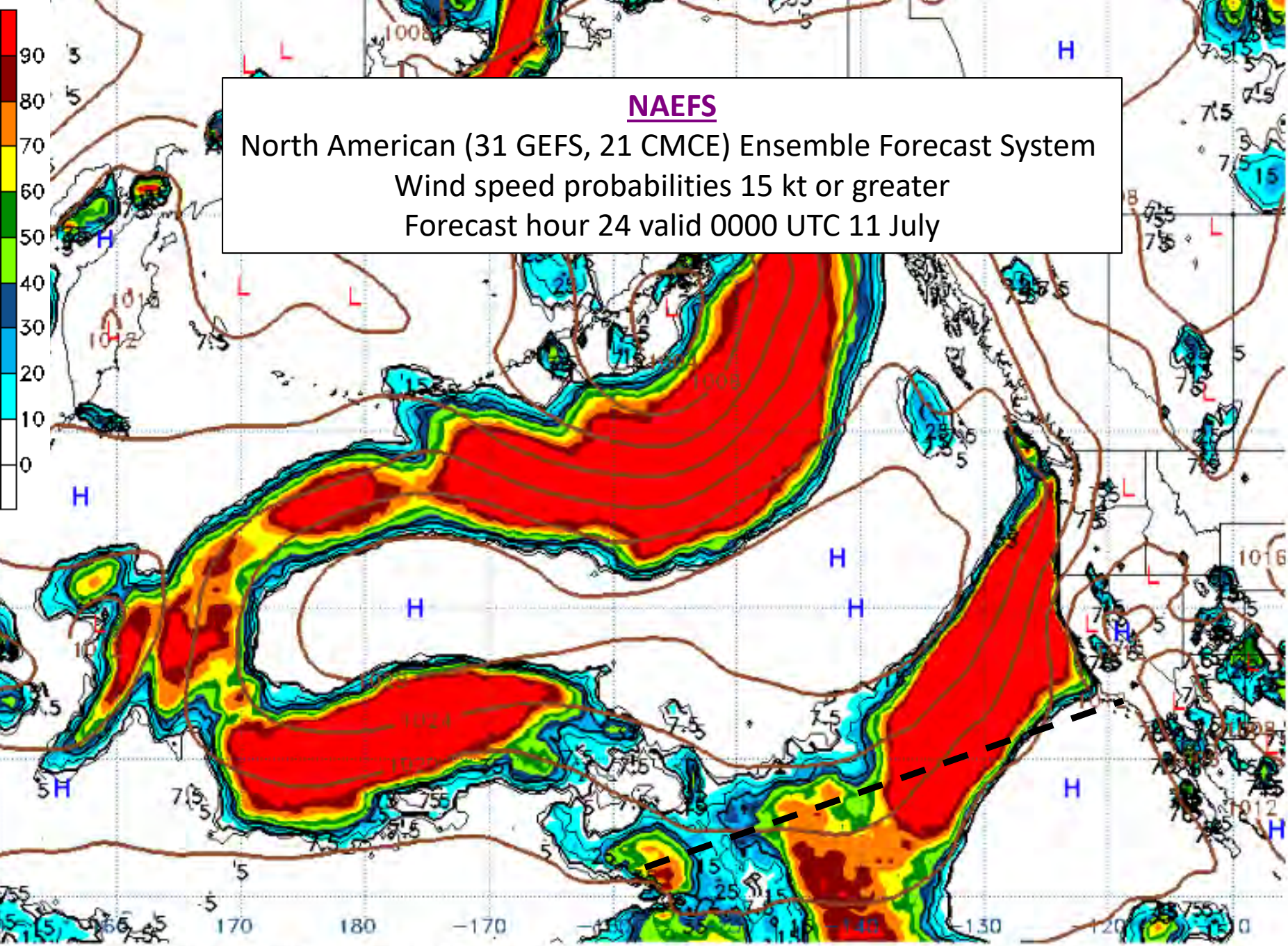
TROPICALTIDBITS.COM





ASCATA  
ASCATB  
ASCATC

ASCTC HI 210710/0920  
ASCTB HI 210710/0920  
ASCTA HI 210710/0920  
VGF TRANSPAC.vgf  
VGF TRANSPAC.vgf

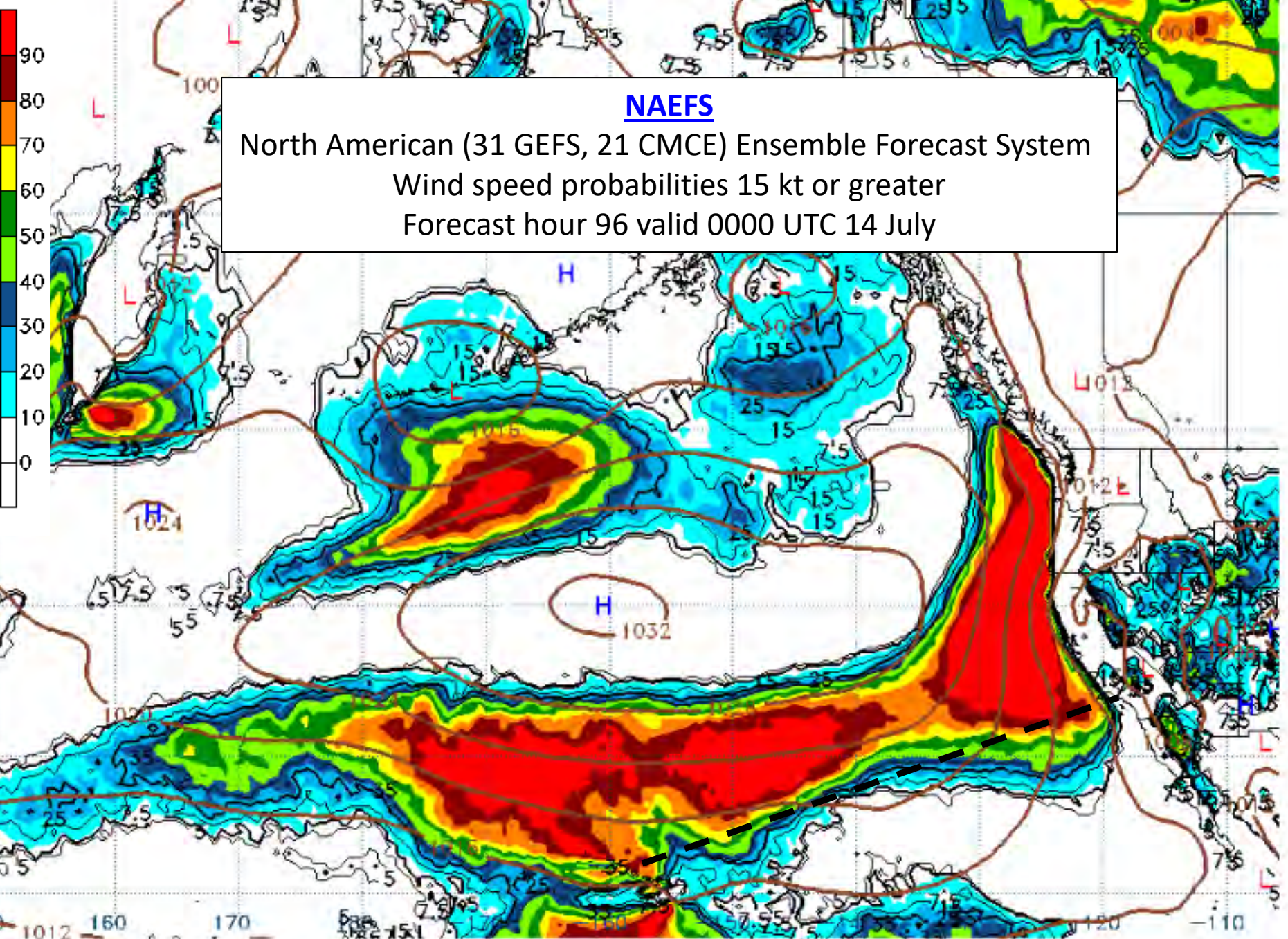


**NAEFS**  
North American (31 GEFS, 21 CMCE) Ensemble Forecast System  
Wind speed probabilities 15 kt or greater  
Forecast hour 24 valid 0000 UTC 11 July

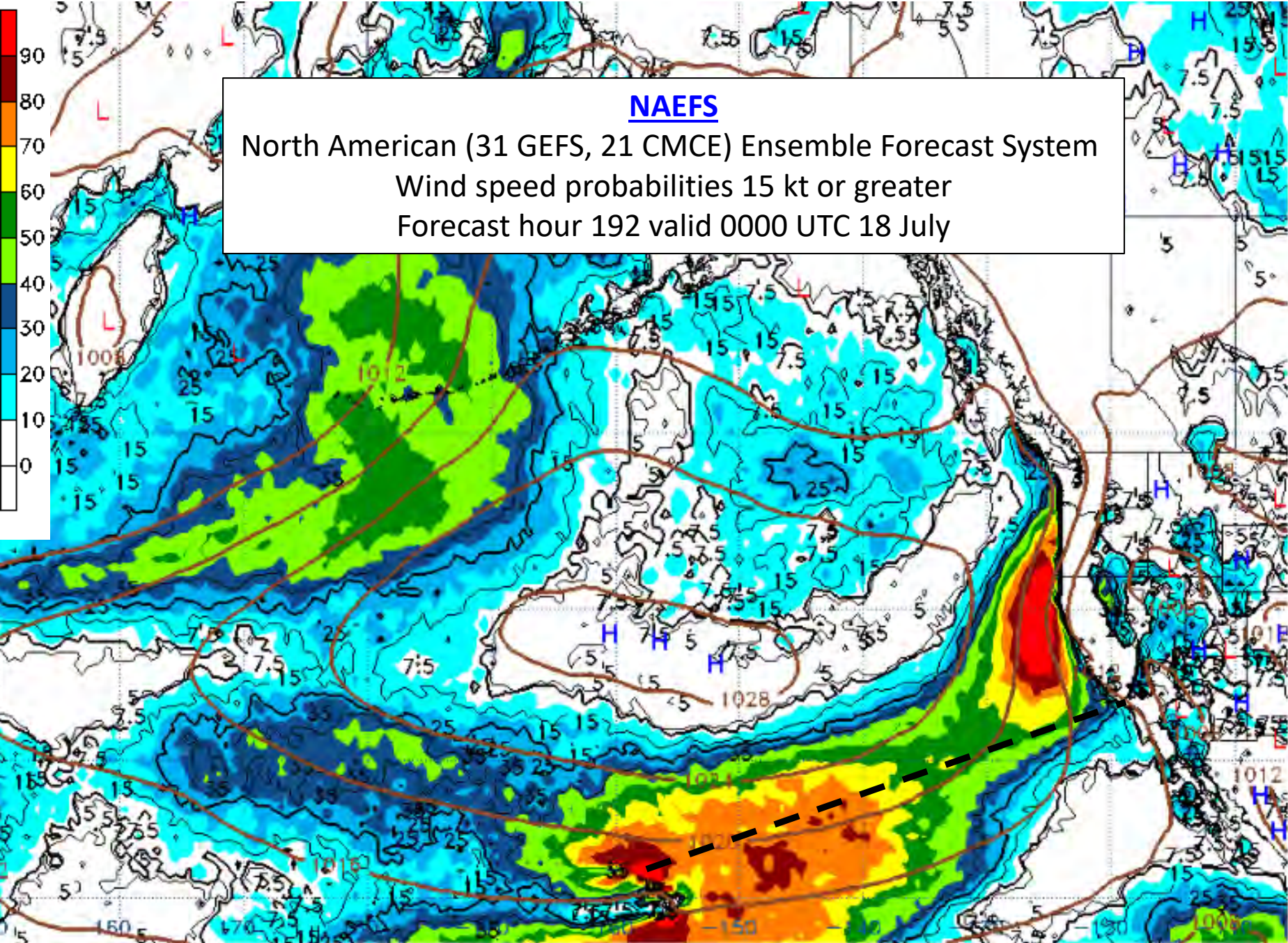
Probability(NAEFS 10m WIND >= 15kt) (%) and NAEFS ensemble mean PMSL (mb)  
20210710/0000 UTC F024 valid Sun 20210711/0000 UTC

## NAEFS

North American (31 GEFS, 21 CMCE) Ensemble Forecast System  
Wind speed probabilities 15 kt or greater  
Forecast hour 96 valid 0000 UTC 14 July

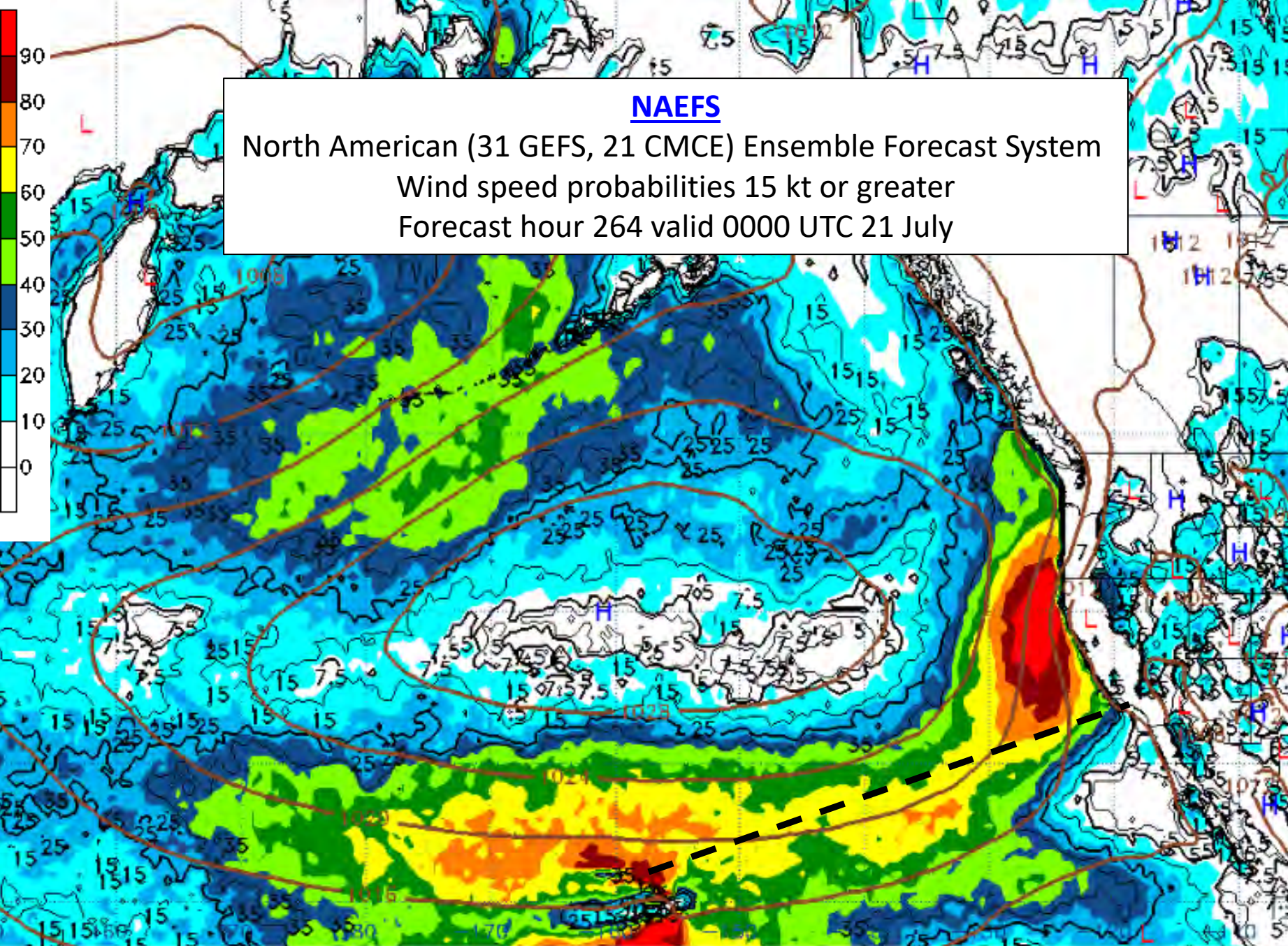


Probability(NAEFS 10m WIND  $\geq$  15kt) (%) and NAEFS ensemble mean PMSL (mb)  
20210710/0000 UTC F096 valid Wed 20210714/0000 UTC



**NAEFS**  
North American (31 GEFS, 21 CMCE) Ensemble Forecast System  
Wind speed probabilities 15 kt or greater  
Forecast hour 192 valid 0000 UTC 18 July

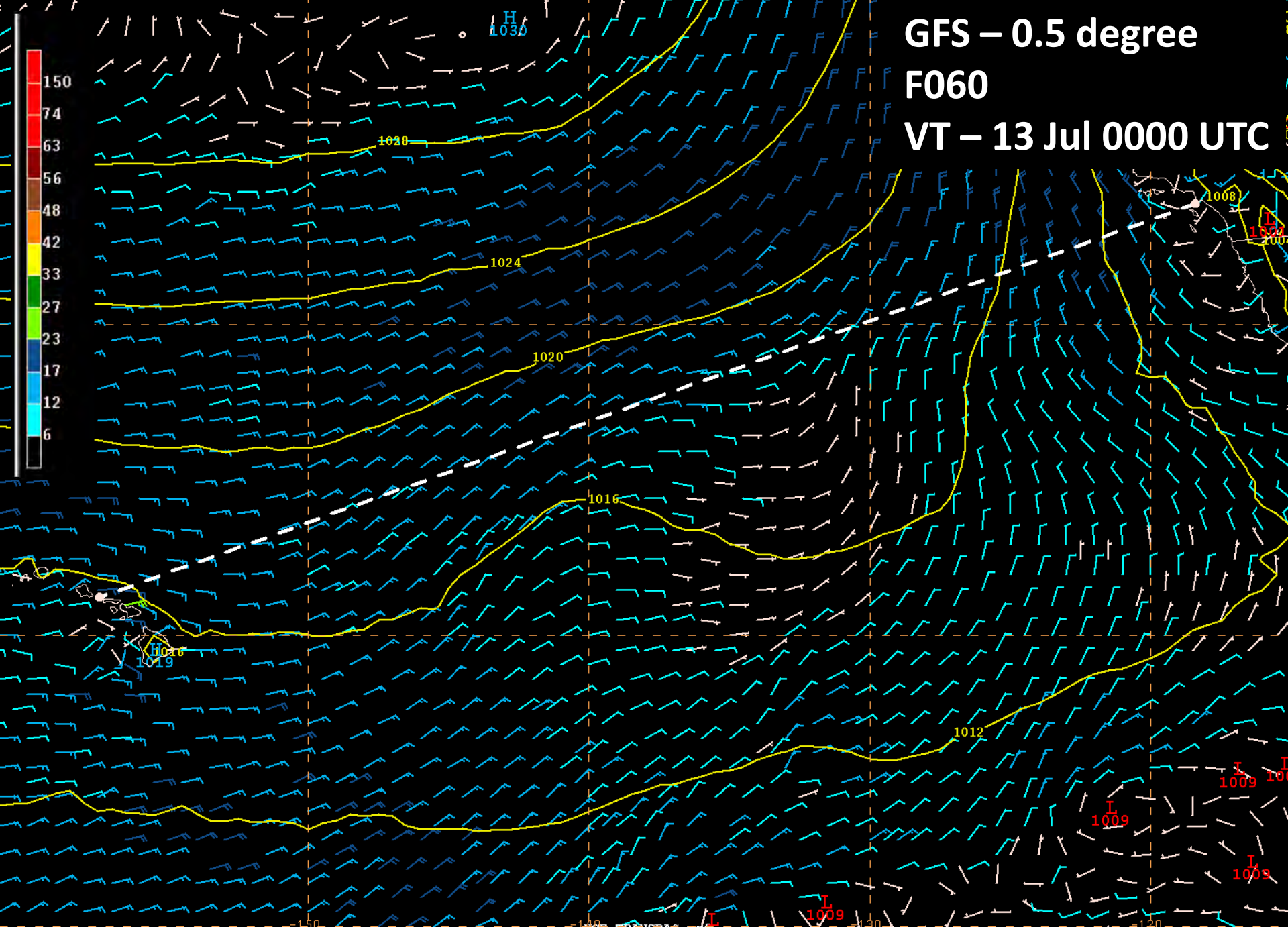
Probability(NAEFS 10m WIND >= 15kt) (%) and NAEFS ensemble mean PMSL (mb)  
20210710/0000 UTC F192 valid Sun 20210718/0000 UTC



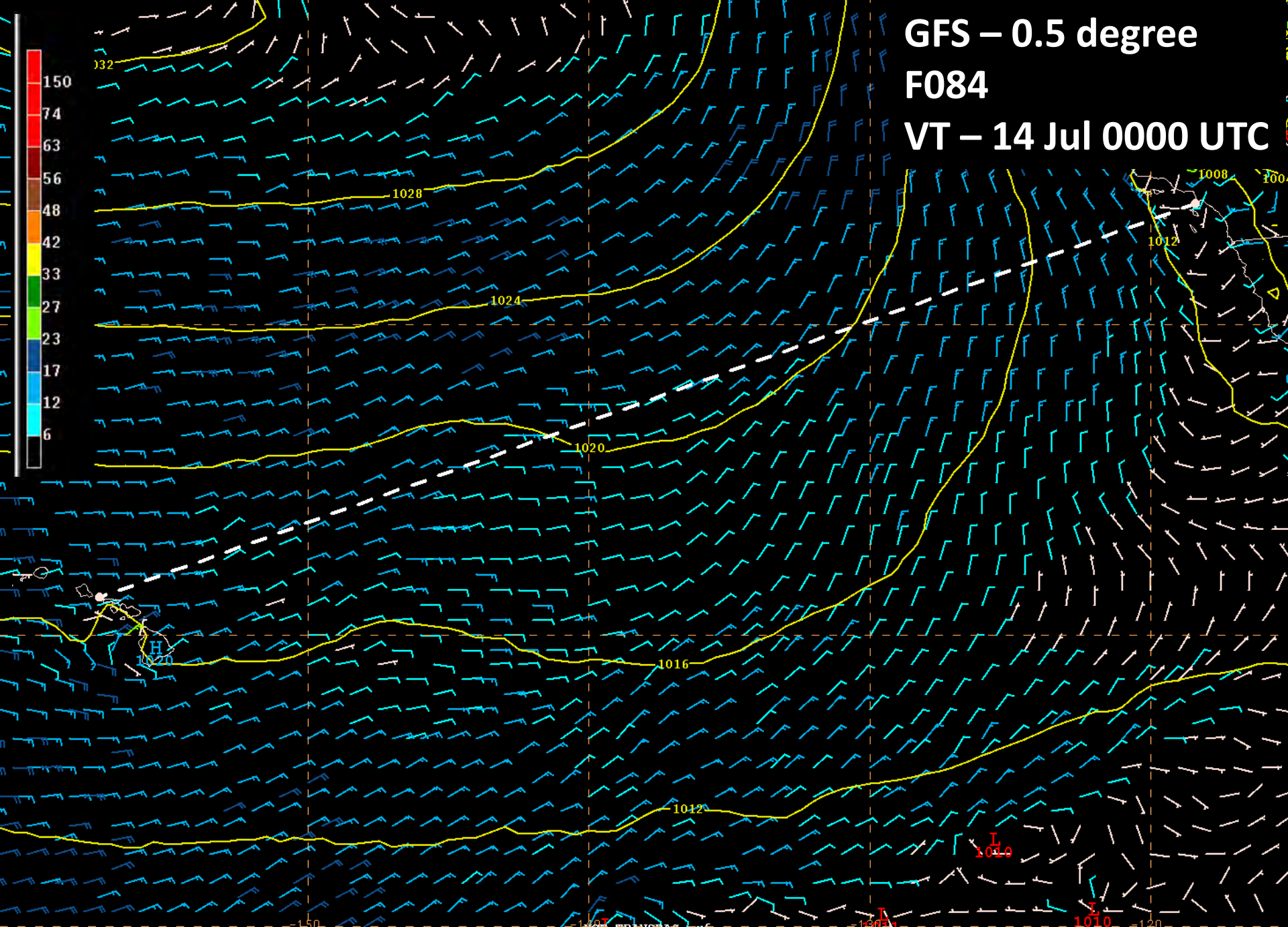
**NAEFS**  
North American (31 GEFS, 21 CMCE) Ensemble Forecast System  
Wind speed probabilities 15 kt or greater  
Forecast hour 264 valid 0000 UTC 21 July

Probability(NAEFS 10m WIND >= 15kt) (%) and NAEFS ensemble mean PMSL (mb)  
20210710/0000 UTC F264 valid Wed 20210721/0000 UTC

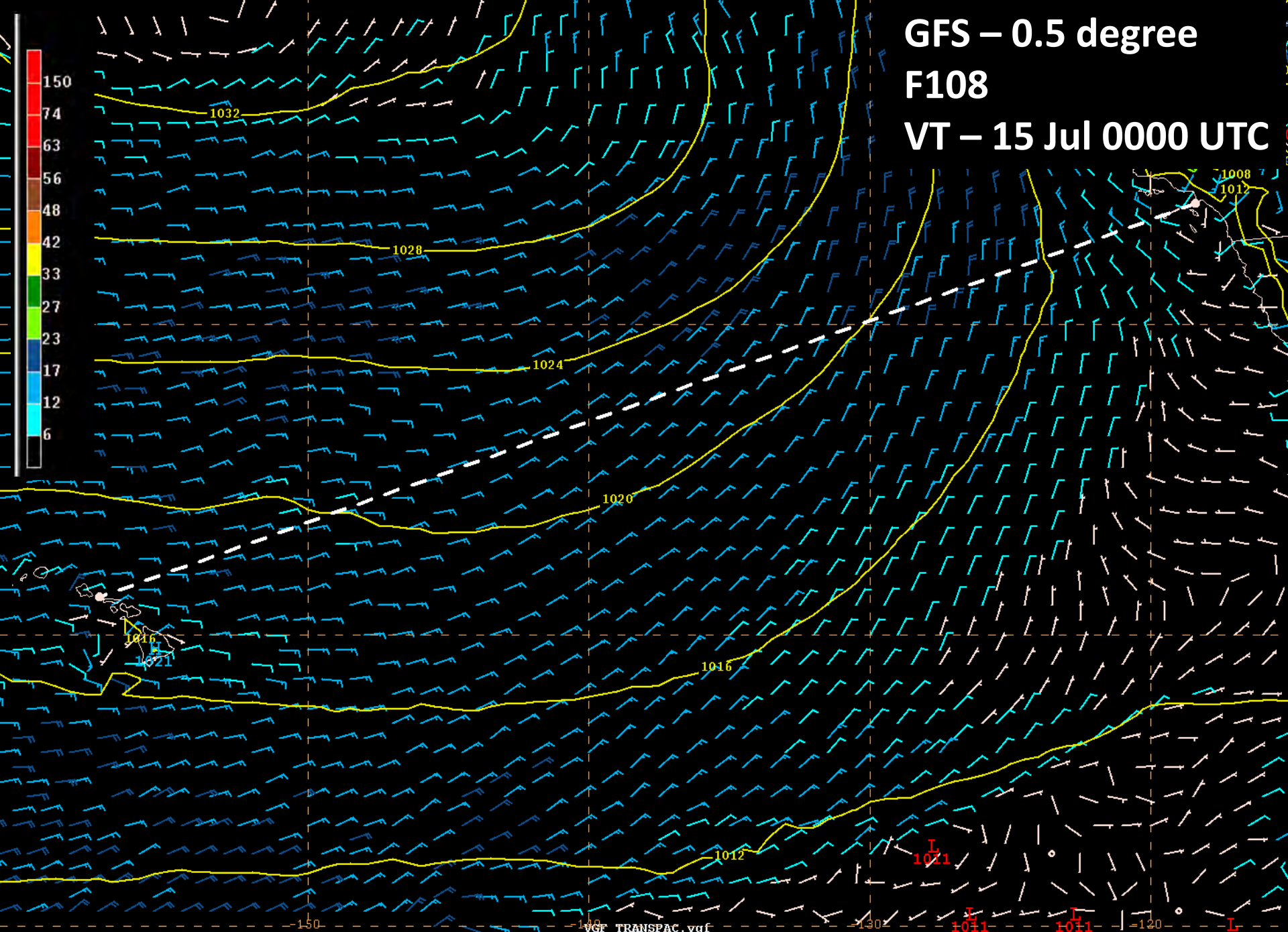
**GFS – 0.5 degree  
F060  
VT – 13 Jul 0000 UTC**



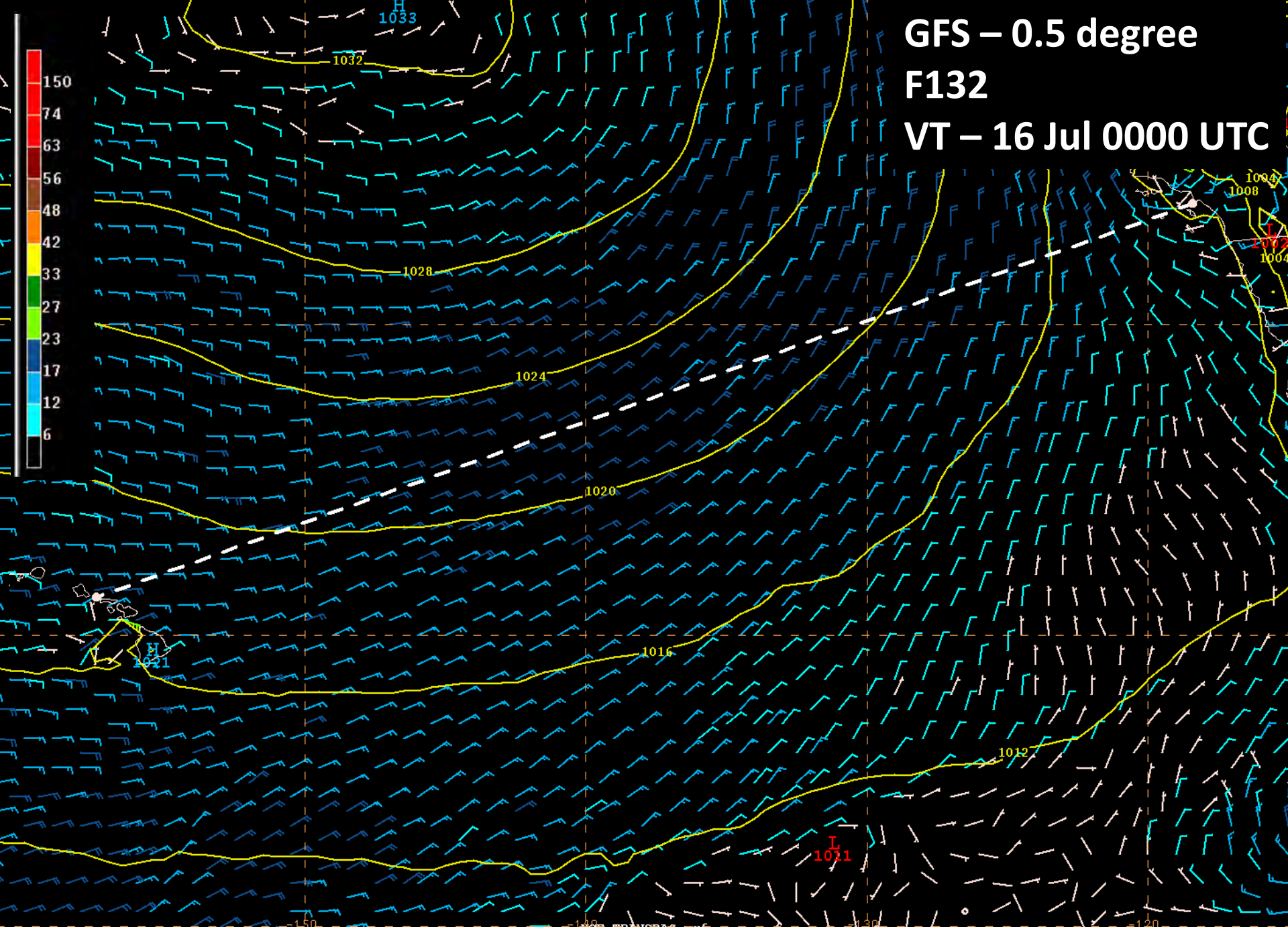
**GFS – 0.5 degree  
F084  
VT – 14 Jul 0000 UTC**



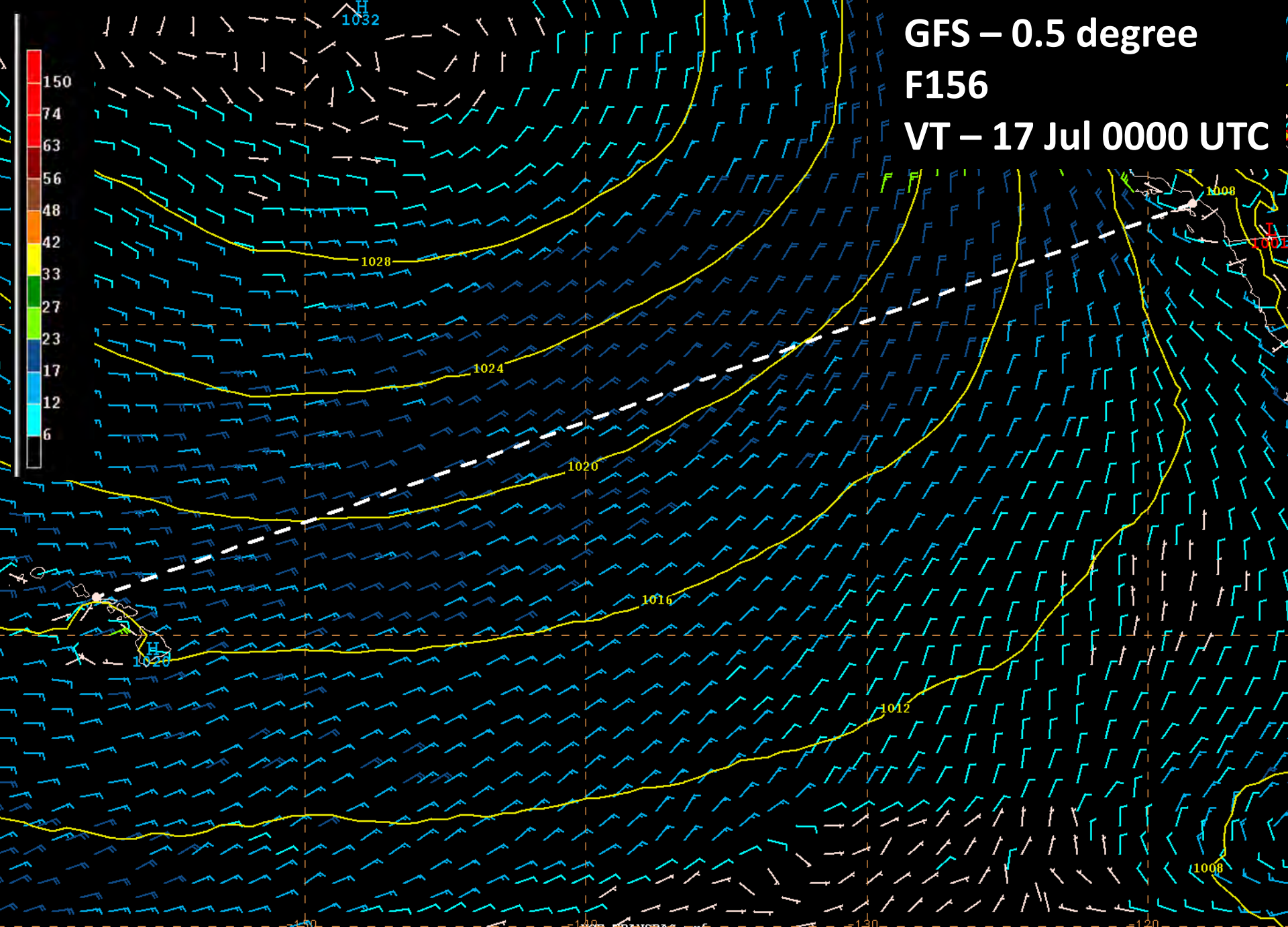
**GFS – 0.5 degree  
F108  
VT – 15 Jul 0000 UTC**



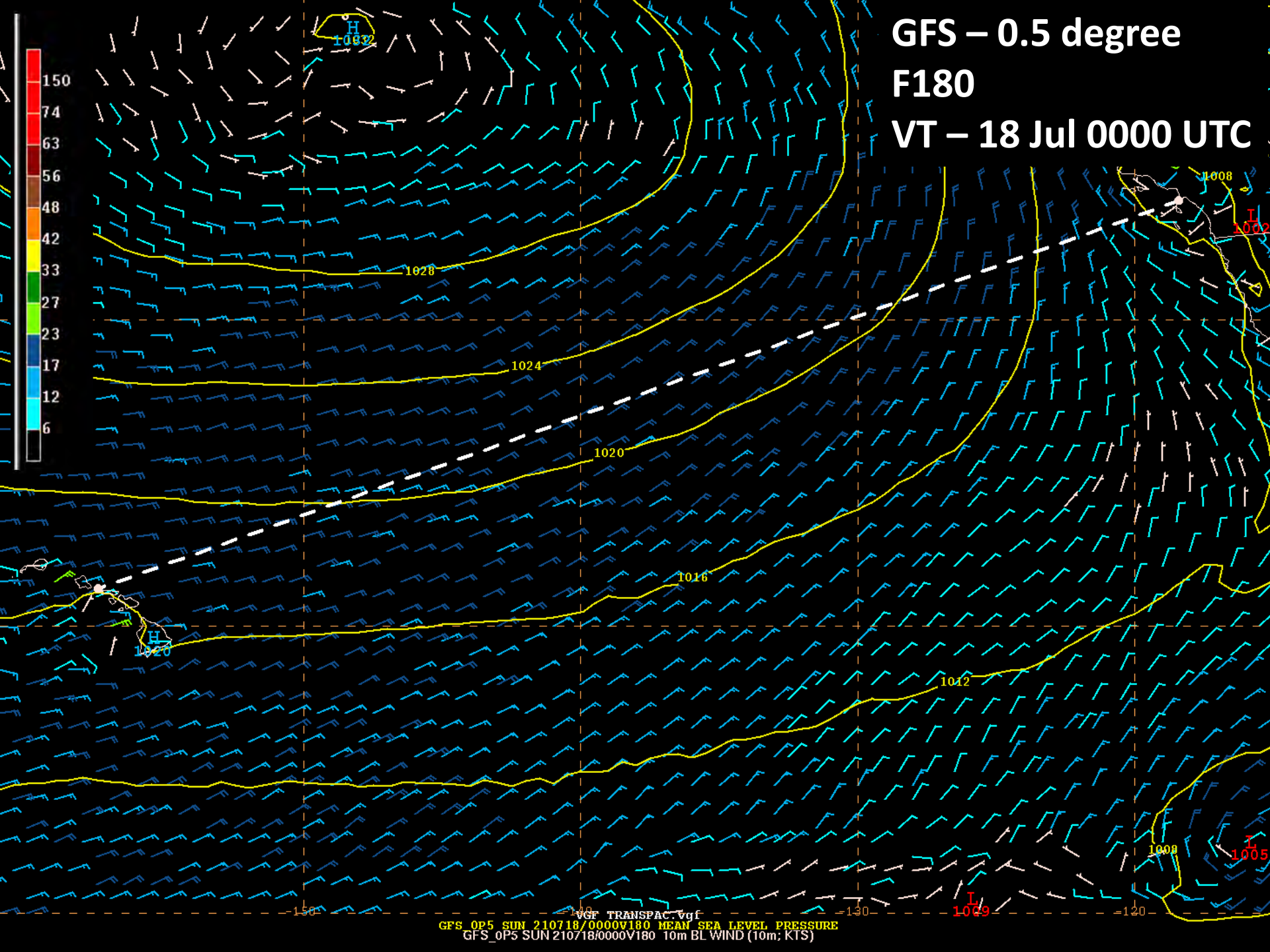
**GFS – 0.5 degree  
F132  
VT – 16 Jul 0000 UTC**



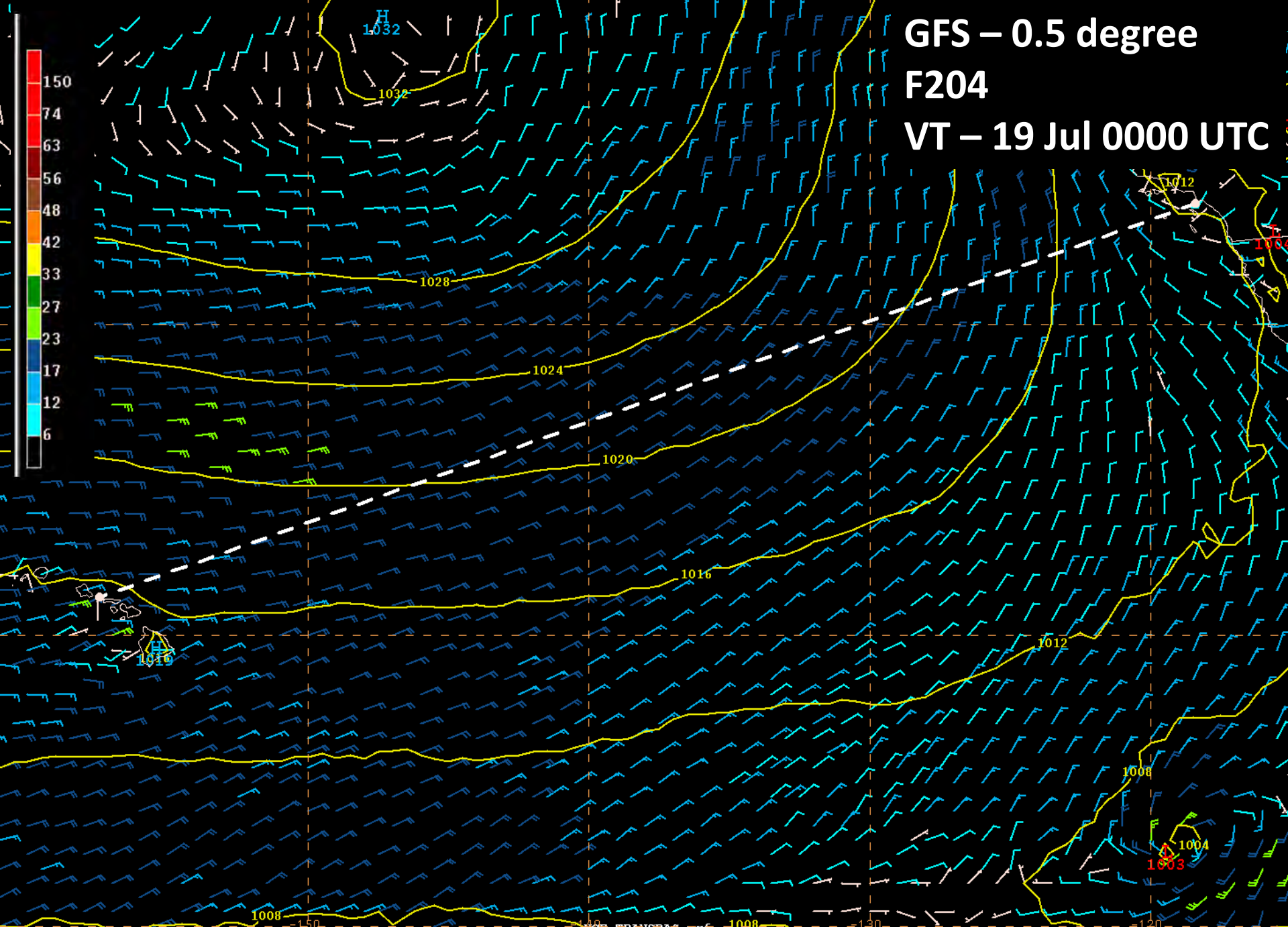
**GFS – 0.5 degree  
F156  
VT – 17 Jul 0000 UTC**



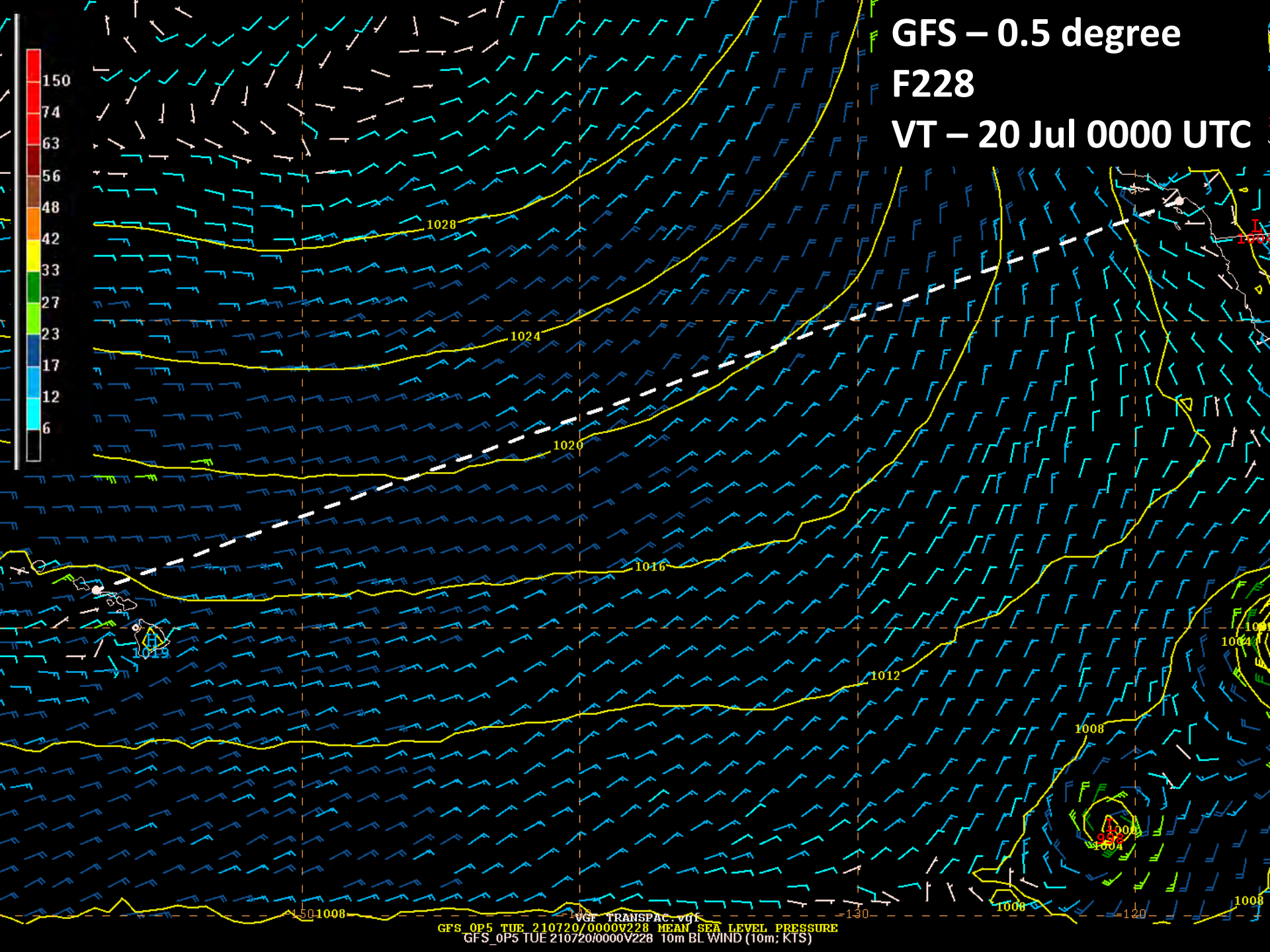
**GFS – 0.5 degree  
F180  
VT – 18 Jul 0000 UTC**



**GFS – 0.5 degree  
F204  
VT – 19 Jul 0000 UTC**

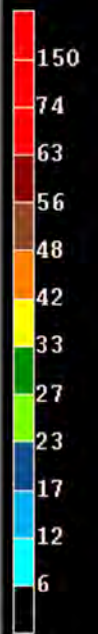
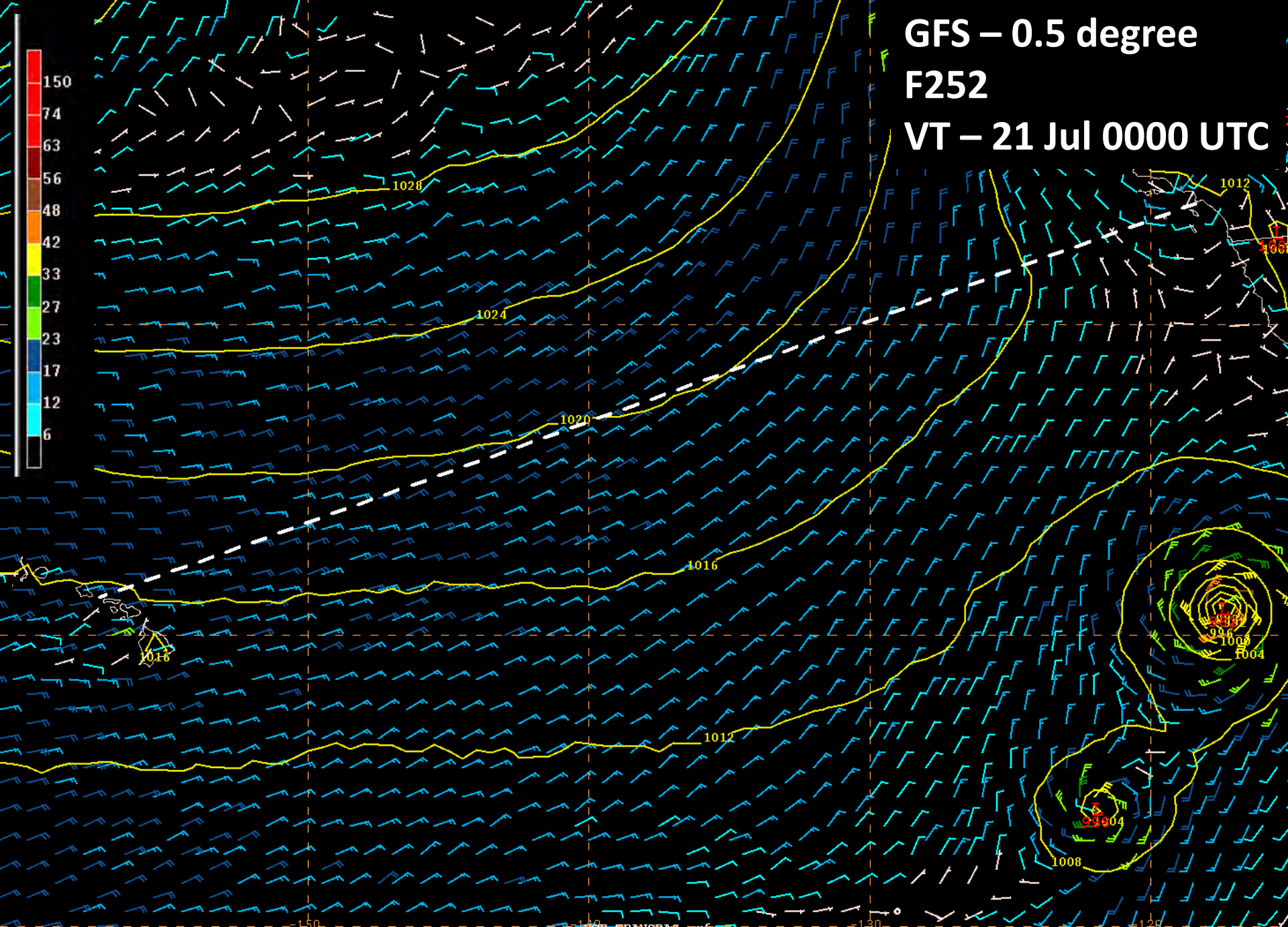


**GFS – 0.5 degree  
F228  
VT – 20 Jul 0000 UTC**

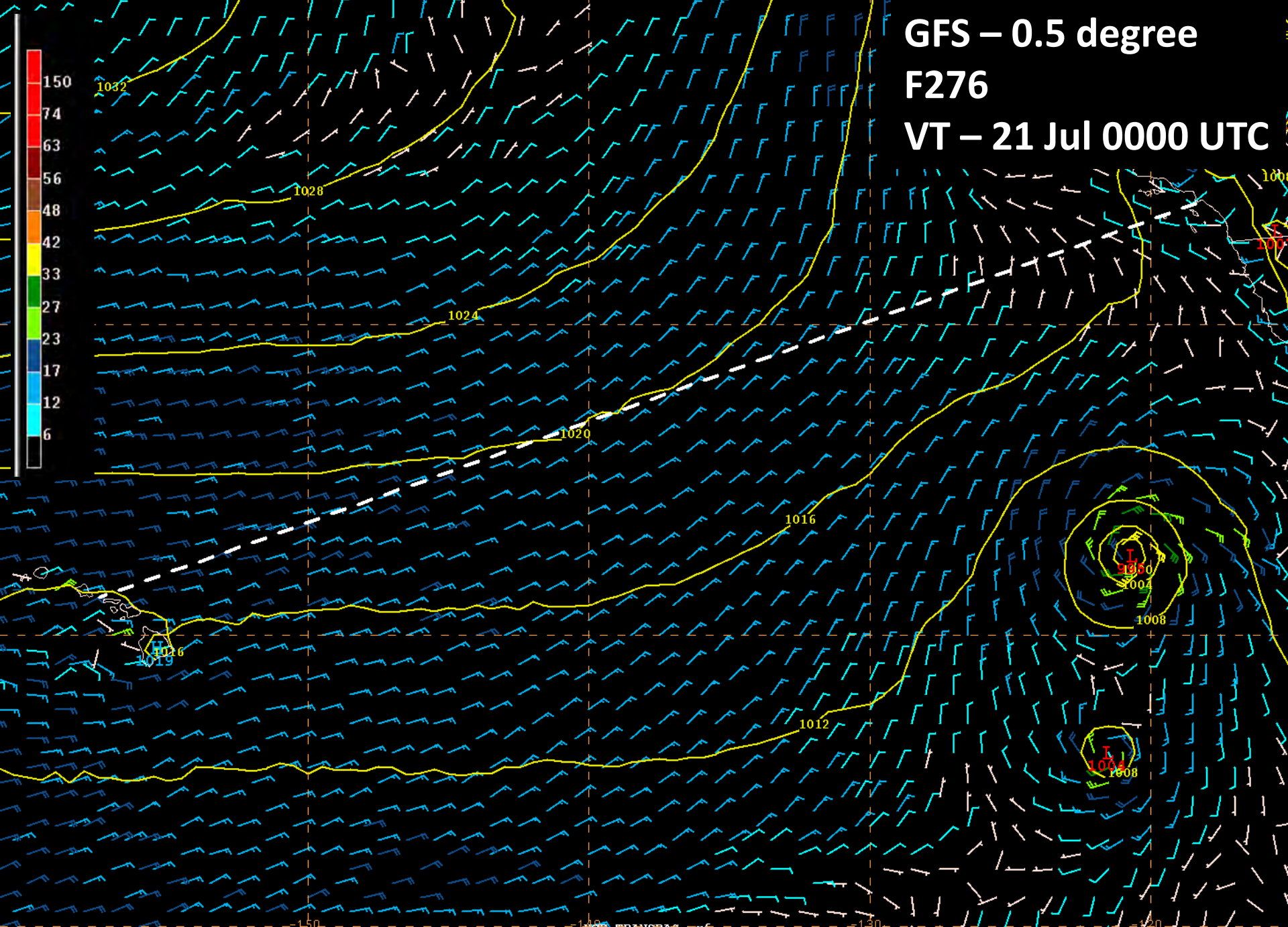


GFS\_OP5 TUE 210720/0000V228 MEAN SEA LEVEL PRESSURE  
GFS\_OP5 TUE 210720/0000V228 10m BL WIND (10m; KTS)

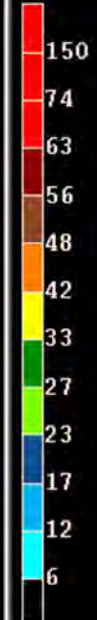
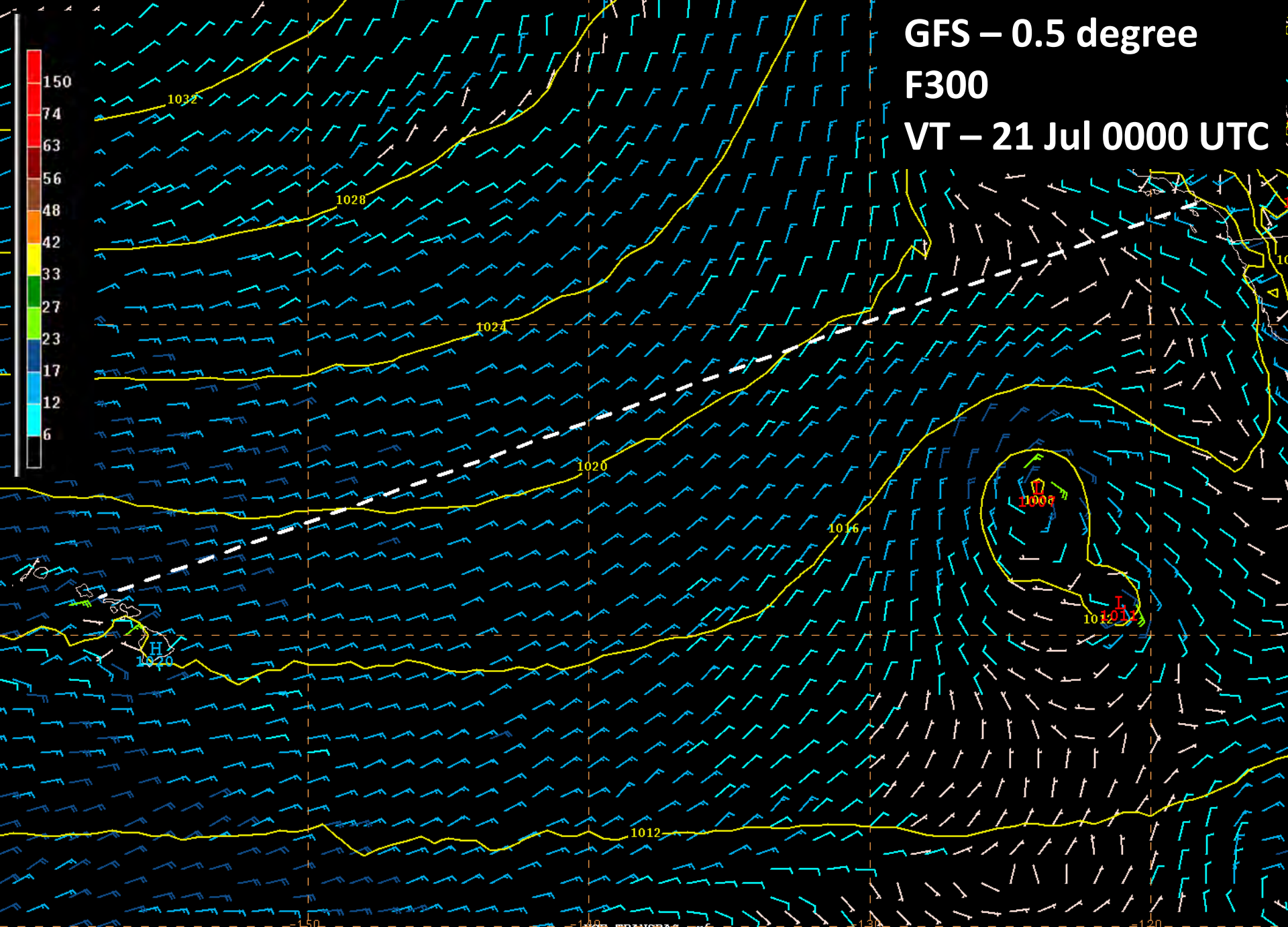
**GFS – 0.5 degree  
F252  
VT – 21 Jul 0000 UTC**



**GFS – 0.5 degree  
F276  
VT – 21 Jul 0000 UTC**



**GFS – 0.5 degree  
F300  
VT – 21 Jul 0000 UTC**





# NWS Marine Forecast Zones

160° E 170° E 180° -170° W -160° W -150° W -140° W -130° W -120° W -110° W -100° W -90° W -80° W -70° W -60° W

FZPN02 KWBC 061725

HSFEPI

HIGH SEAS FORECAST FOR METAREA XII

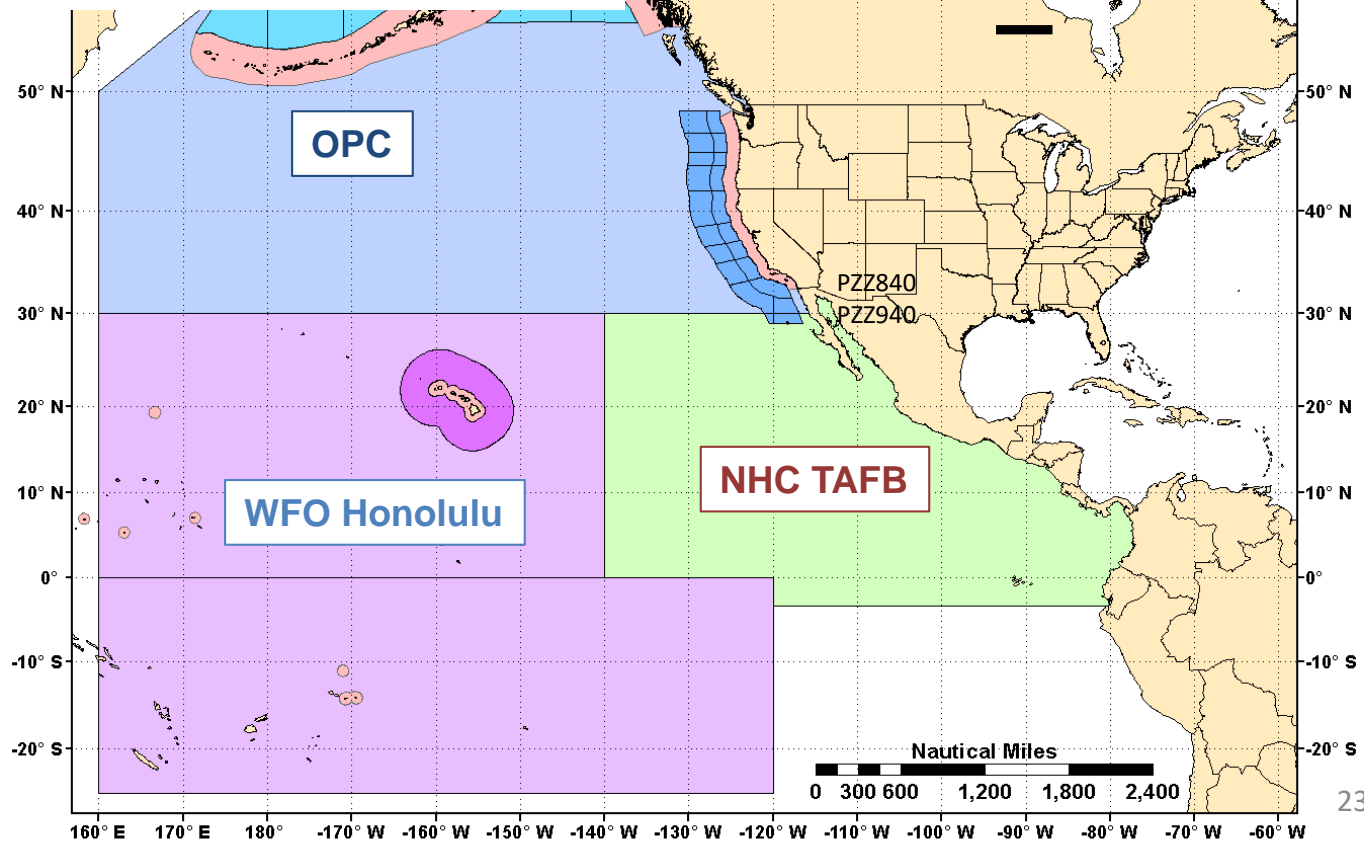
NWS OCEAN PREDICTION CENTER

WASHINGTON DC

1745 UTC SAT JUL 10 2021

## Pacific Offshore and High Seas Forecast Areas

- Offshore - Alaska Forecast Offices
- Offshore - Ocean Prediction Center
- High Seas - Ocean Prediction Center
- High Seas - National Hurricane Center/TAFB
- Offshore - Honolulu Forecast Office
- High Seas - Honolulu Forecast Office
- Coastal Waters - Local Forecast Offices



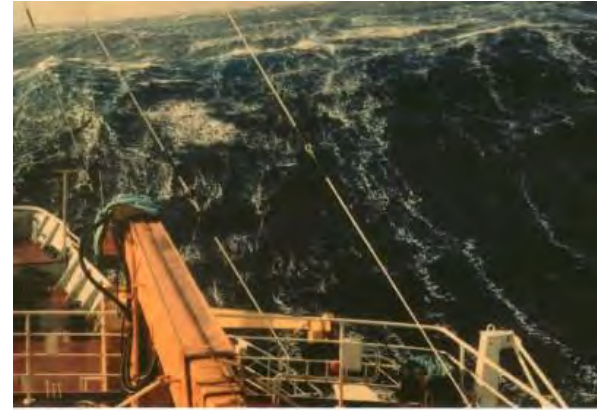
# WARNINGS (non-TROPICAL)



**BEAUFORT FORCE 8**  
WIND SPEED: 34-40 KNOTS

SEA: WAVE HEIGHT 5.5-7.5M (18-25FT), MODERATELY HIGH WAVES OF GREATER LENGTH, EDGES OF CREST BEGIN TO BREAK INTO THE SPINDRIFT, FOAM BLOWN IN WELL MARKED STREAKS ALONG WIND DIRECTION.

**GALE  
WARNING**  
Force 8,9



**BEAUFORT FORCE 9**  
WIND SPEED: 41-47 KNOTS

SEA: WAVE HEIGHT 7-10M (23-32FT), HIGH WAVES, DENSE STREAKS OF FOAM ALONG DIRECTION OF THE WIND, WAVE CRESTS BEGIN TO TOPPLE, TUMBLE, AND ROLL OVER. SPRAY MAY AFFECT VISIBILITY.



**BEAUFORT FORCE 10**  
WIND SPEED: 48-55 KNOTS

SEA: WAVE HEIGHT 9-12.5M (29-41FT), VERY HIGH WAVES WITH LONG OVERHANGING CRESTS, THE RESULTING FOAM, IN GREAT PATCHES, IS BLOWN IN DENSE WHITE STREAKS ALONG WIND DIRECTION. ON THE WHOLE, SEA SURFACE TAKES A WHITE APPEARANCE. TUMBLING OF THE SEA IS HEAVY AND SHOCK-LIKE, VISIBILITY AFFECTED.

**STORM  
WARNING**  
Force 10,11



**BEAUFORT FORCE 12**  
WIND SPEED: 64 KNOTS

SEA: SEA COMPLETELY WHITE WITH DRIVING SPRAY, VISIBILITY VERY SERIOUSLY AFFECTED. THE AIR IS FILLED WITH FOAM AND SPRAY

**HURRICANE  
FORCE  
WARNING**  
Force 12





# OCEAN PREDICTION CENTER

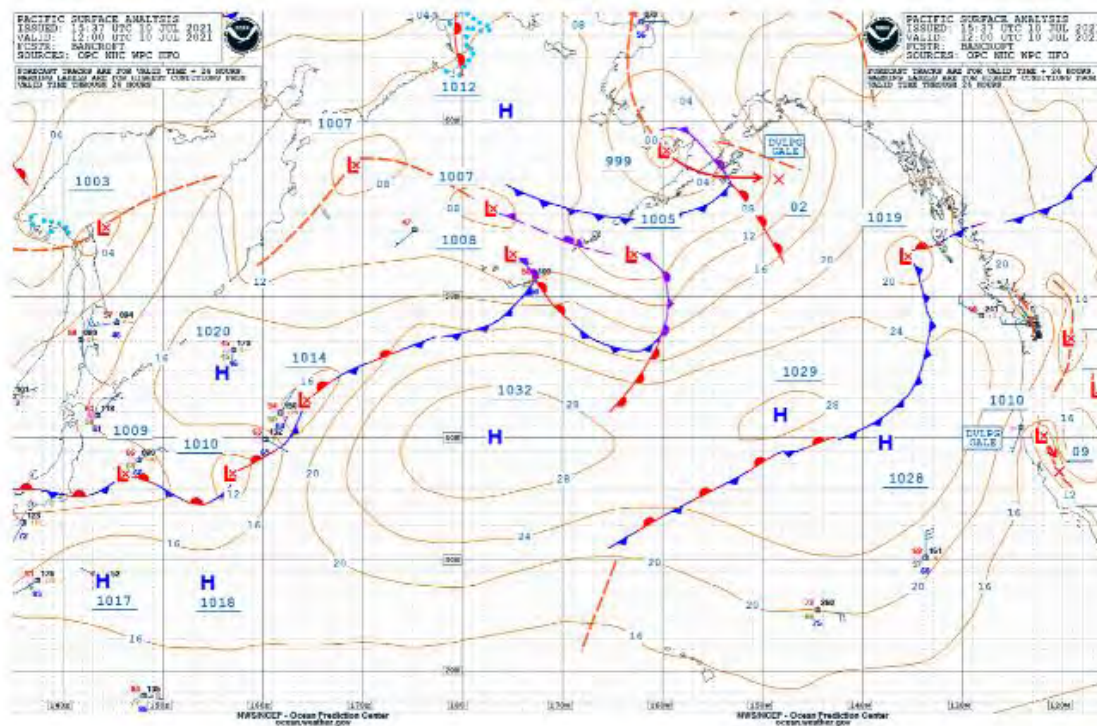
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

[ANALYSIS & FORECAST](#)[DATA](#)[INFORMATION](#)[NEWS](#)[SEARCH](#)[Atlantic Weather](#)[Pacific Weather](#)[Alaska/Arctic Weather](#)

[Analysis](#) – [Graphical Forecasts](#) – [Text Forecasts](#) – [Hazards](#) – [Gridded](#) – [Other Marine](#)

## Pacific Analysis

Click on the map below or choose from:

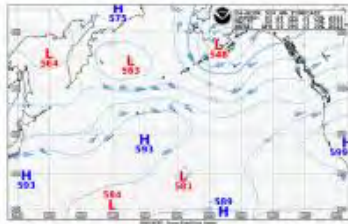
[W Pacific](#)[Full Pacific](#)[E Pacific](#)

### Surface Analysis

W Pacific Loop:  
[\[3\]](#) [\[7\]](#) [\[14\]](#) Days

E Pacific Loop:  
[\[3\]](#) [\[7\]](#) [\[14\]](#) Days

# Pacific Graphical Forecasts

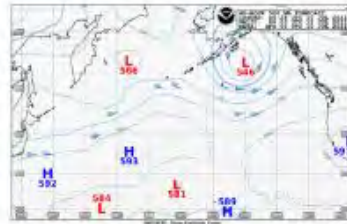


**24-hour 500 mb**

Loop: [3] [7] [14] Days

Updated: Sat, 10-Jul-2021 05:29:11 UTC

[More 500 MB images](#)

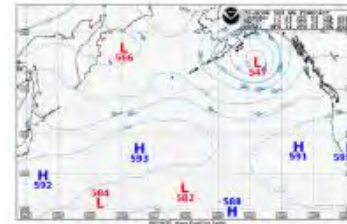


**48-hour 500 mb**

Loop: [3] [7] [14] Days

Updated: Sat, 10-Jul-2021 05:30:18 UTC

[More 500 MB images](#)

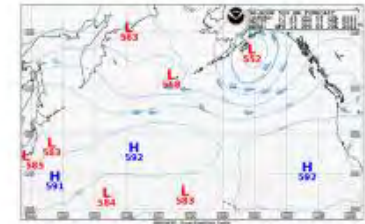


**72-hour 500 mb**

Loop: [3] [7] [14] Days

Updated: Fri, 09-Jul-2021 17:31:46 UTC

[More 500 MB images](#)



**96-hour 500 mb**

Loop: [3] [7] [14] Days

Updated: Fri, 09-Jul-2021 17:33:02 UTC

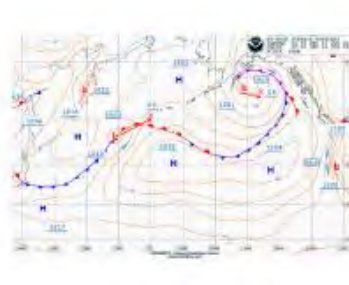
[More 500 MB images](#)



**24-hour surface**

Loop: [3] [7] [14] Days

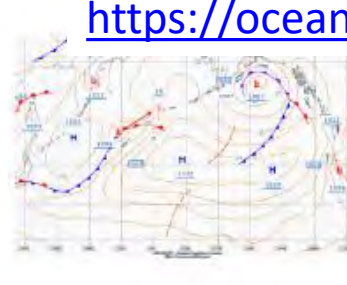
Updated: Sat, 10-Jul-2021 16:48:04 UTC



**48-hour surface**

Loop: [3] [7] [14] Days

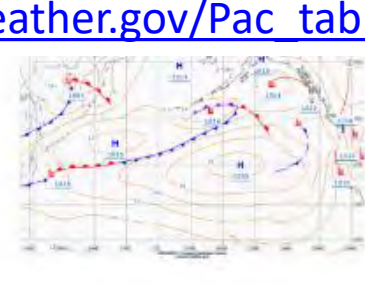
Updated: Sat, 10-Jul-2021 04:59:42 UTC



**72-hour surface**

Loop: [3] [7] [14] Days

Updated: Fri, 09-Jul-2021 17:31:17 UTC



**96-hour surface**

Loop: [3] [7] [14] Days

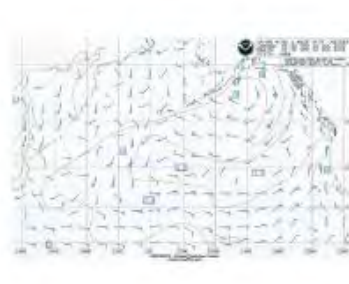
Updated: Sat, 10-Jul-2021 14:39:46 UTC



**24-hour wind & wave**

Loop: [3] [7] [14] Days

Updated: Sat, 10-Jul-2021 06:34:10 UTC



**48-hour wind & wave**

Loop: [3] [7] [14] Days

Updated: Sat, 10-Jul-2021 05:34:11 UTC



**72-hour wind & wave**

Loop: [3] [7] [14] Days

Updated: Fri, 09-Jul-2021 17:50:19 UTC



**96-hour wind & wave**

Loop: [3] [7] [14] Days

Updated: Sat, 10-Jul-2021 15:28:47 UTC

[https://ocean.weather.gov/Pac\\_tab.shtml](https://ocean.weather.gov/Pac_tab.shtml)



# Receiving information - FTPMAIL



Directions

<https://ocean.weather.gov/ftpmail.php>

Email to: **NWS.FTPMail.OPS@noaa.gov**

Subject – any subject you like

## Body of email:

open

cd fax

get ftpcmd.txt

get rfaxpac.txt

get rfaxhi.txt

get marine2.txt

quit

Example to receive instructions and header (filenames) of products for:

1. Instructions.
2. Pacific radiofax products
3. Hawaii radiofax
4. Hurricane bulletin

Received

tgftp.nws.noaa.gov:/marine2.txt (get marine2.txt) - NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS HL	10:22 am
tgftp.nws.noaa.gov:/rfaxhi.txt (get rfaxhi.txt) - NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS for the Cen	10:22 am
tgftp.nws.noaa.gov:/rfaxpac.txt (get rfaxpac.txt) - NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS for the l	10:22 am
tgftp.nws.noaa.gov:/ftpcmd.txt (get ftpcmd.txt) - ***FTPMAIL commands for ftpmail@ftpmail.nws.noaa.gov FTPMAIL	10:22 am



# Receiving information - FTPMAIL



Directions

<https://ocean.weather.gov/ftpmail.php>

Email to: **NWS.FTPMail.OPS@noaa.gov**

Subject – any subject you like

**Body of email:**

open

cd data

cd hurricane\_products

cd eastern\_pacific

cd weather

get outlook.txt

quit

**Example to receive instructions and header (filenames) of products for:**  
**1. Tropical Weather Outlook**

Received

ABPZ20 KNHC 081742  
TWOEP

Tropical Weather Outlook  
NWS National Hurricane Center Miami FL  
1100 AM PDT Thu Jul 8 2021

For the eastern North Pacific...east of 140 degrees west longitude:

Tropical cyclone formation is not expected during the next 5 days.

\$\$  
Forecaster Papin/Pasch



# Receiving information - FTPMAIL



## Directions

<https://ocean.weather.gov/ftpmail.php>

Email to: **NWS.FTPMail.OPS@noaa.gov**

Subject – any subject you like

## Body of email:

open

cd data

cd hurricane\_products

cd eastern\_pacific

cd storm\_5

get technical\_advisory.txt

quit

**Example to receive instructions and header (filenames) of products for:**

**products for:**

**1. Tropical Cyclone Message for ENRIQUE (storm 5)**

## Received

WTPZ25 KNHC 302034  
TCMEP5

REMNANTS OF ENRIQUE FORECAST/ADVISORY NUMBER 23  
NWS NATIONAL HURRICANE CENTER MIAMI FL EP052021  
2100 UTC WED JUN 30 2021

THERE ARE NO COASTAL WATCHES OR WARNINGS IN EFFECT.

REMNANTS OF CENTER LOCATED NEAR 24.5N 110.3W AT 30/2100Z  
POSITION ACCURATE WITHIN 40 NM

PRESENT MOVEMENT TOWARD THE WEST-NORTHWEST OR 300 DEGREES AT 4 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 1010 MB  
MAX SUSTAINED WINDS 20 KT WITH GUSTS TO 30 KT.  
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL  
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 24.5N 110.3W AT 30/2100Z  
AT 30/1800Z CENTER WAS LOCATED NEAR 24.4N 110.1W

FORECAST VALID 01/0600Z...DISSIPATED

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 24.5N 110.3W

THIS IS THE LAST FORECAST/ADVISORY ISSUED BY THE NATIONAL HURRICANE  
CENTER ON THIS SYSTEM.

\$\$  
FORECASTER REINHART/BROWNWTPZ22 KNHC 061432  
TCMEP2



# Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



← Central Pacific

<https://www.nhc.noaa.gov/?epac>

All Disturbances

35N

25N

15N

5N

5:00 am PDT  
Sat Jul 10 2021

140W

130W

120W

110W

100W

90W

80W

www.hurricanes.gov

Current Disturbances and Five-Day Cyclone Formation Chance:    < 40%    40-60%    > 60%

Tropical or Sub-Tropical Cyclone:    Depression    Storm    Hurricane

Post-Tropical Cyclone or Remnants

Tropical Weather Outlook  
NWS National Hurricane Center Miami FL  
500 AM PDT Sat Jul 10 2021

For the eastern North Pacific...east of 140 degrees west longitude:

1. An area of low pressure is expected to develop south or southeast of the Gulf of Tehuantepec in a few days. Environmental conditions are expected support gradual development of this system thereafter and a tropical depression could form during the middle portion of next week. This system is expected to move generally westward or west-northwestward at 10 to 15 mph through the end of the five day period.

\* Formation chance through 48 hours...low...near 0 percent.

\* Formation chance through 5 days...medium...50 percent.

2. Another area of low pressure is expected to form several hundred miles southwest of the southern coast of Mexico by early next week. Some slow development of this system will be possible while it moves westward or west-northwestward at 10 to 15 mph.

\* Formation chance through 48 hours...low...near 0 percent.

\* Formation chance through 5 days...low...20 percent.

Forecaster Zelinsky

ZCZC MIATCMEP5 ALL  
TTAA00 KNHC DDHHMM

TCM

HURRICANE ENRIQUE FORECAST/ADVISORY NUMBER 10  
NWS NATIONAL HURRICANE CENTER MIAMI FL EP052021  
1500 UTC SUN JUN 27 2021

...

HURRICANE CENTER LOCATED NEAR 18.2N 105.9W AT 27/1500Z  
POSITION ACCURATE WITHIN 20 NM

PRESENT MOVEMENT TOWARD THE NORTH OR 360 DEGREES AT 5 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 977 MB  
MAX SUSTAINED WINDS 80 KT WITH GUSTS TO 100 KT.  
64 KT..... 20NE 20SE 0SW 20NW.  
50 KT..... 40NE 40SE 20SW 40NW.  
34 KT.....110NE 90SE 60SW 100NW.  
12 FT SEAS..120NE 270SE 180SW 150NW.

WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL  
MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 18.2N 105.9W AT 27/1500Z  
AT 27/1200Z CENTER WAS LOCATED NEAR 17.9N 105.9W

FORECAST VALID 28/0000Z 19.1N 106.3W  
MAX WIND 85 KT..GUSTS 105 KT.  
64 KT... 20NE 20SE 0SW 20NW.  
50 KT... 40NE 40SE 20SW 30NW.  
34 KT... 90NE 80SE 60SW 80NW.

FORECAST VALID 28/1200Z 19.9N 106.9W  
MAX WIND 80 KT..GUSTS 100 KT.  
64 KT... 20NE 20SE 0SW 15NW.  
50 KT... 30NE 30SE 20SW 30NW.  
34 KT... 70NE 70SE 50SW 70NW.

FORECAST VALID 29/0000Z 20.6N 107.5W

ZCZC MIATCDEP5 ALL  
TTAA00 KNHC DDHHMM CCA

TCD

Hurricane Enrique Discussion Number 6...Corrected  
NWS National Hurricane Center Miami FL EP052021  
1000 AM CDT Sat Jun 26 2021

Corrected initial storm motion in second paragraph

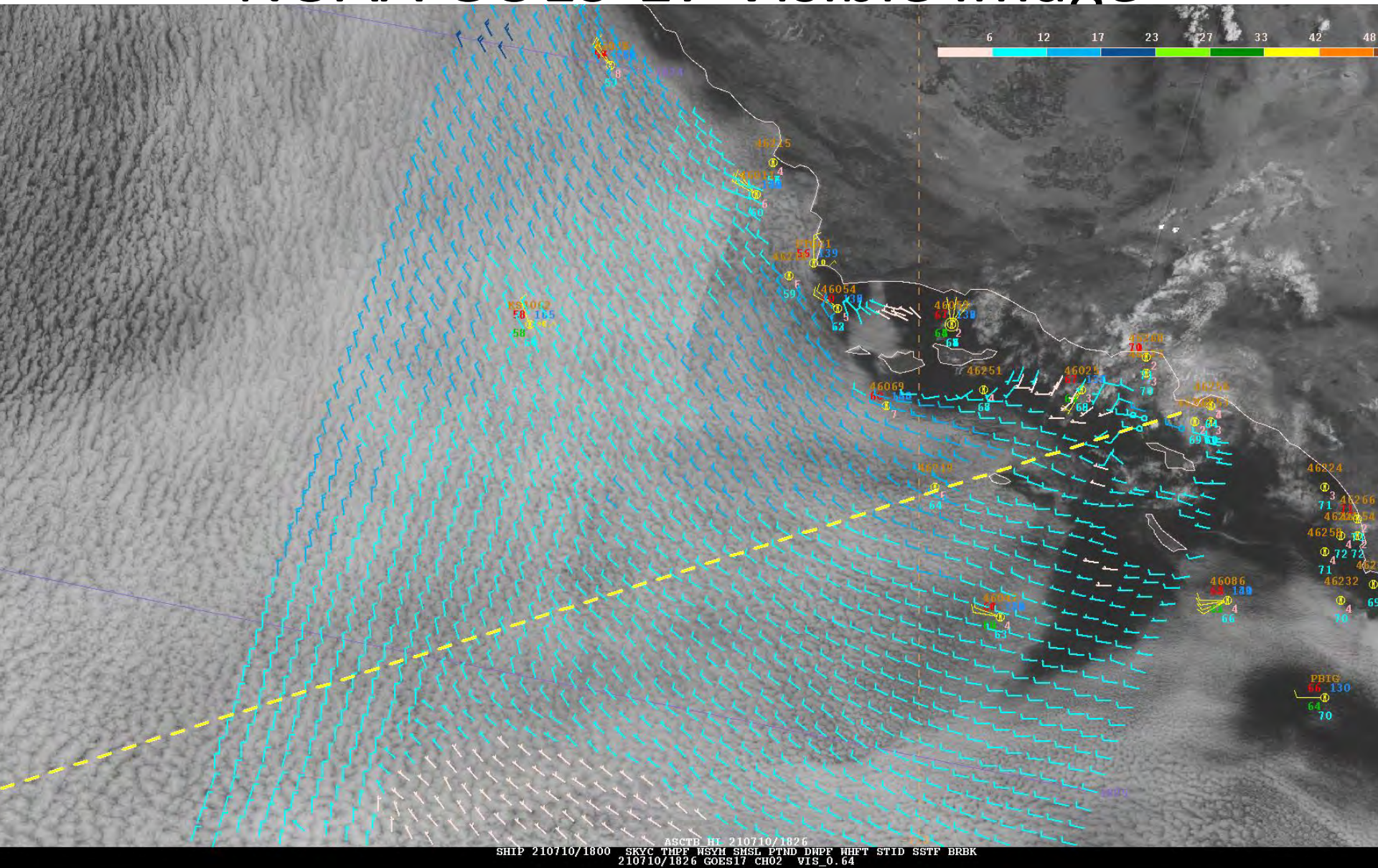
Enrique continues to exhibit a well organized structure on satellite imagery. First-light visible shows the formation of a ring of overshooting tops along Enrique's north and west sides, a sign that an eyewall is organizing. Indeed, a recent 1207 UTC SSMIS microwave pass showed this formative eyewall, though some dry air also appeared to be wrapping around the hurricane along its eastern flank. Satellite intensity estimates this morning include subjective Dvorak estimates of T4.0/65 kt from TAFB, T4.5/75 kt from SAB, and an objective estimate of T4.3/72 kt from UW-CIMSS ADT. The initial intensity is increased to 75 kt for this advisory, favoring the higher intensity estimates based on the improvement in satellite structure since 1200 UTC.

Satellite imagery suggests that the estimated motion is beginning to bend a bit rightward at 300/06 kt. As the mid-level ridge to the north of the storm weakens over the next day or so, Enrique should slow down and turn a bit more to the northwest. The large region of monsoonal southwesterly flow south and east of the hurricane may also be influencing this rightward bend in the track in the short term. The new forecast track has shifted again to the right, especially over the first 48 hours, following the track guidance consensus and close to the most recent ECMWF ensemble mean. The small size of the 64-kt wind radii forecast with Enrique should keep the highest winds offshore, but any additional eastward track adjustments could require hurricane watches for portions of the southwestern coast of Mexico later today.

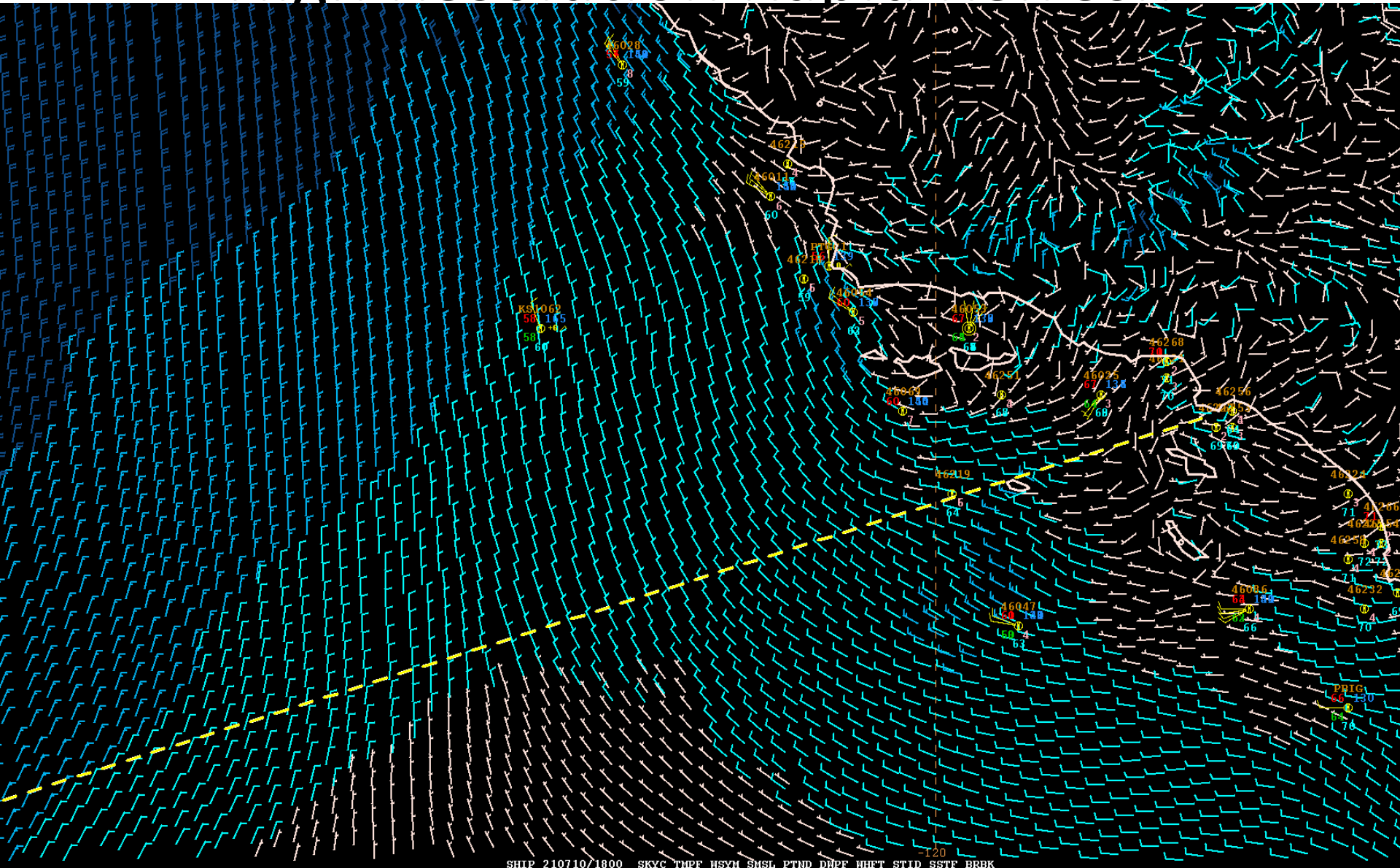
Conditions remains favorable for Enrique to intensify further in the

# ASCAT-B scatterometer winds

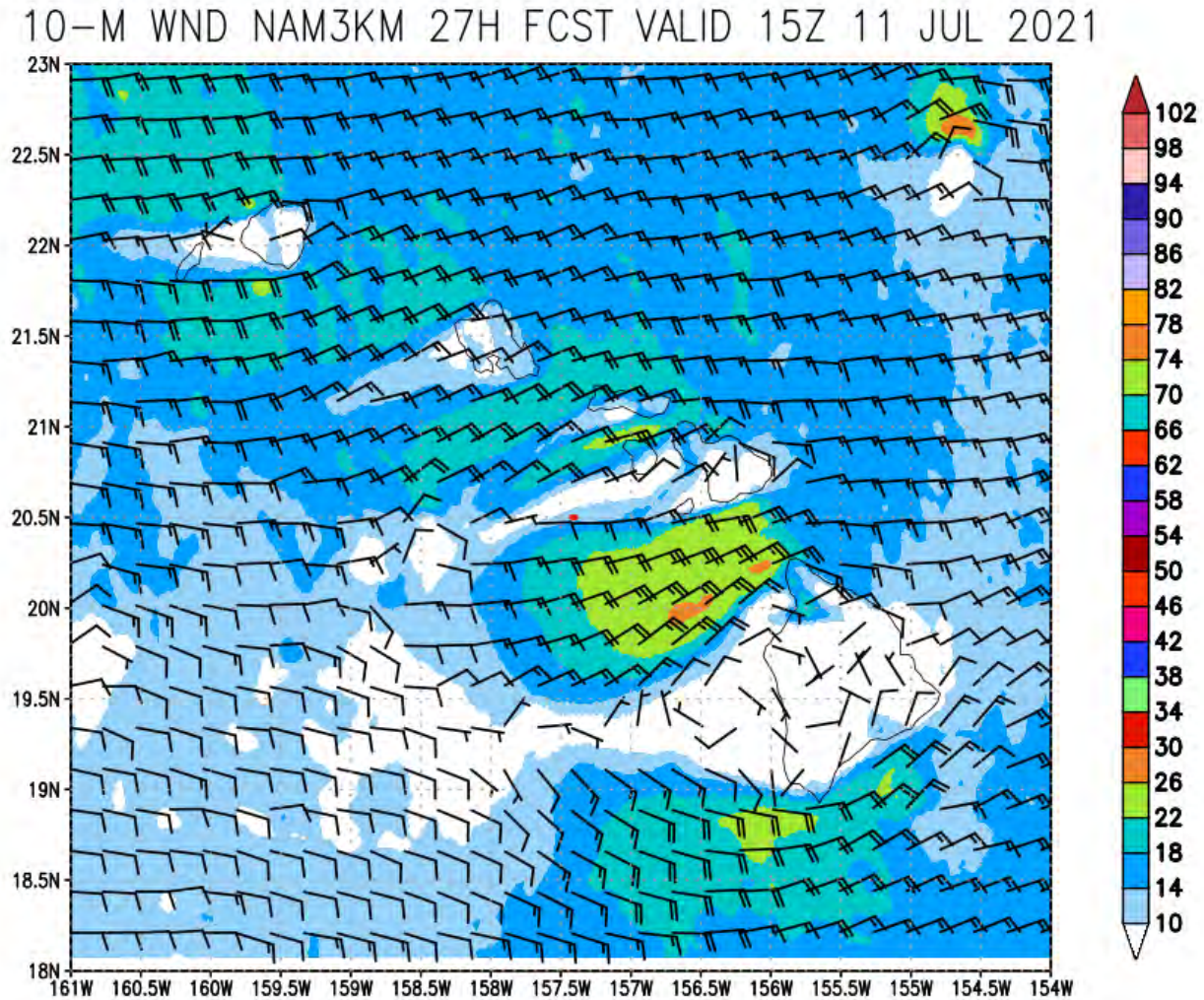
## NOAA GOES-17 Visible Image

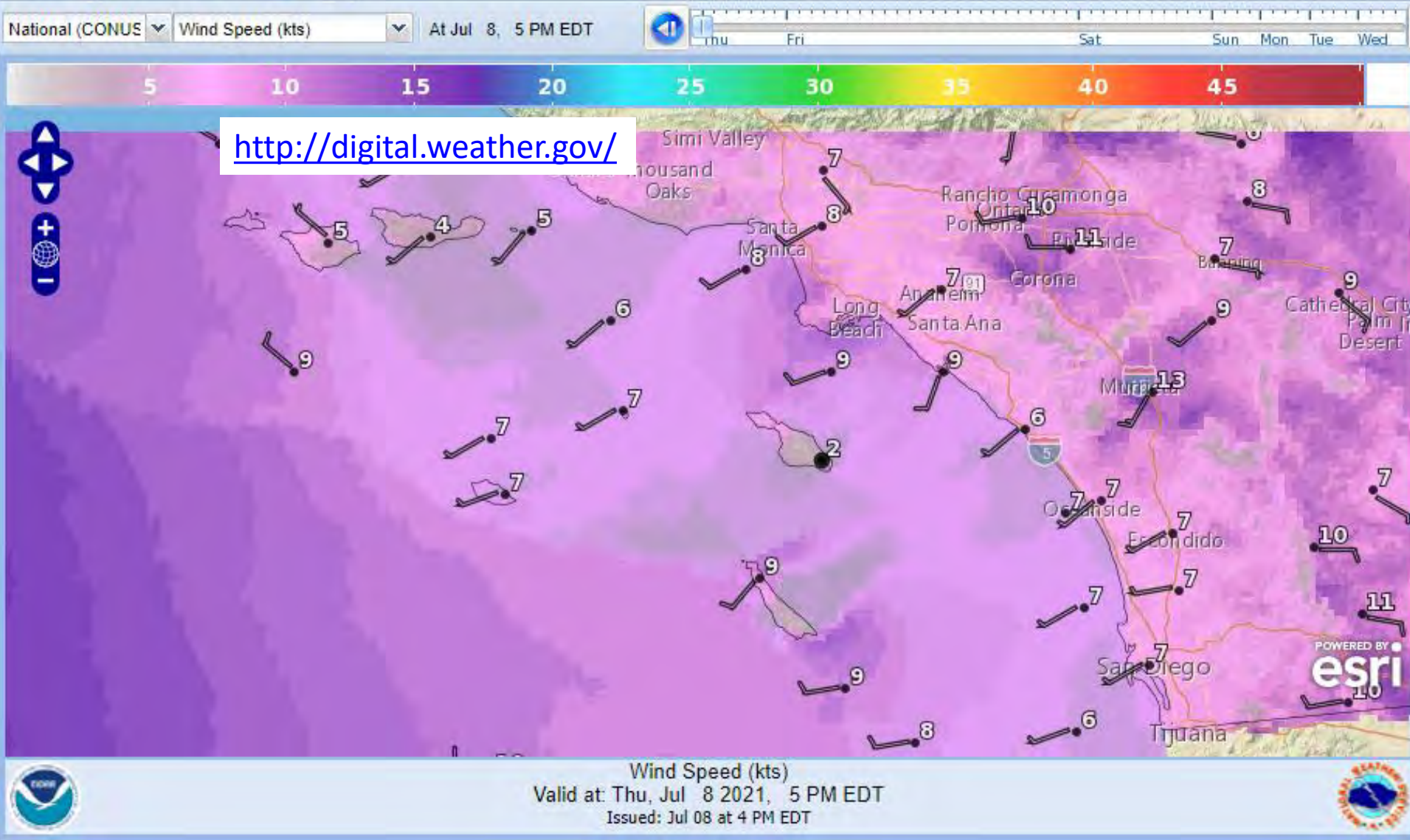


# NOAA HRRR Model High Resolution Rapid Refresh



# North American Mesoscale Model - Hawaii



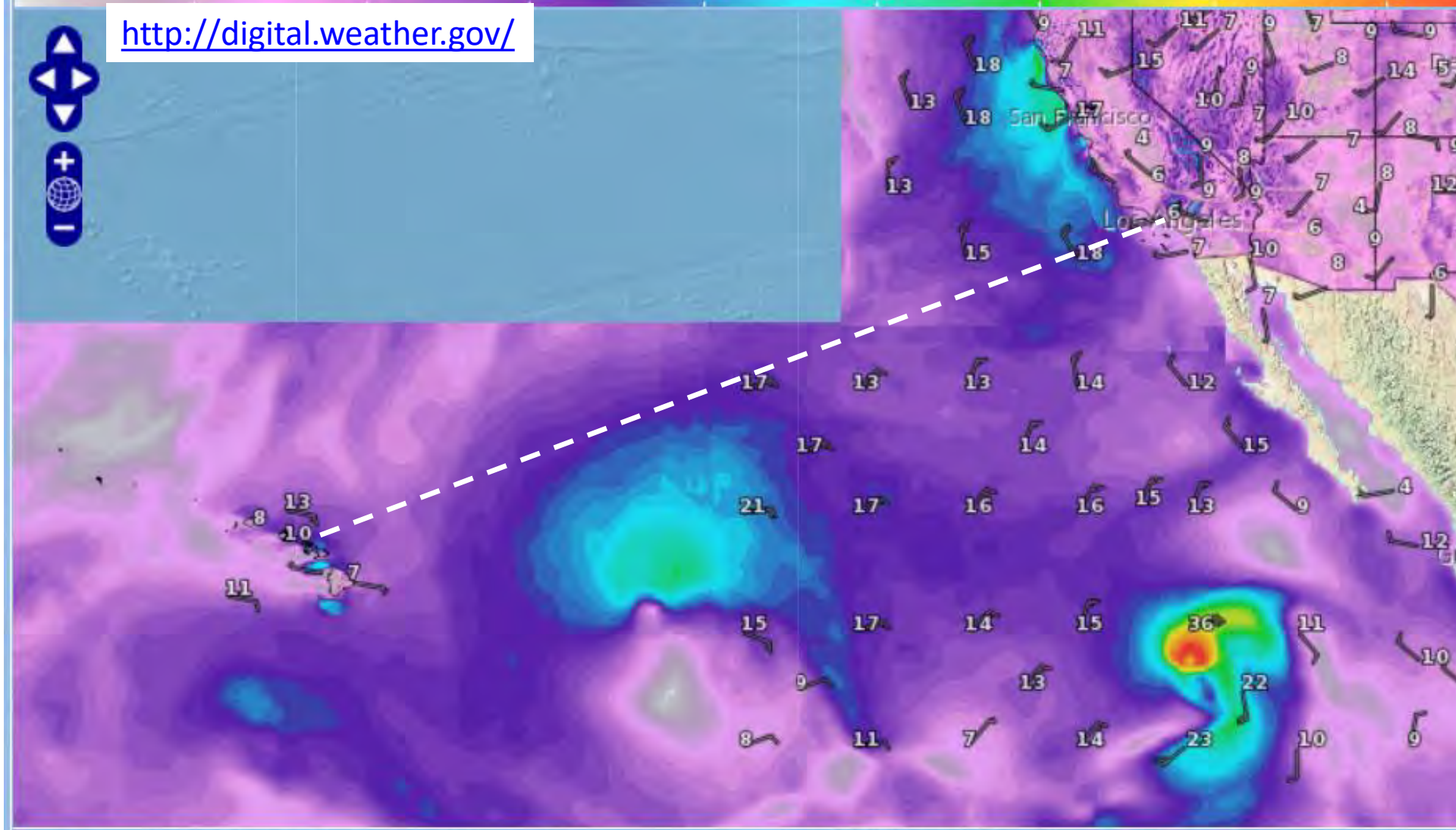


**NDFD** – NOAA/NWS forecaster based gridded (GRIB) winds  
- available from saildocs

Oceanic ▼ Wind Speed (kts) ▼ At Jul 6, 8 PM EDT



<http://digital.weather.gov/>



Wind Speed (kts)  
Valid at: Sat, Jul 6 2019, 8 PM EDT  
Issued: Jul 06 at 12 PM EDT



# Summary



- Balance the information you use – routing tools,
  - and authoritative information - NOAA
  - Update frequently
- Recommend you are familiar with products such as:
  - Tropical Weather Outlook (TWO)
  - Tropical Cyclone Messages (TCM), schedule/ how to receive
    - National Hurricane Center (east of 140 W)
      - eastern\_pacific
    - Central Pacific Hurricane Center (west of 140W)
      - central\_pacific
- Climate scale – ENSO is neutral (not a factor on trades)
  - MJO - more organized propagating eastward
    - Trades increasing as July progresses
  - Tropical Cyclone activity – potential first 5-7 days during race

# Have a safe race!

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 9 Jul 2021

