

2015 ONR TCI Aircraft Flight Operations

Pete Black¹
Jason Dunion²

¹ NRL-Monterey

² University of Miami/CIMAS – NOAA/AOML/HRD – University at Albany/SUNY

2015 ONR TCI

Aircraft Flight Operations

Goals:

- Highlight aspects of daily flight operations for 2015 TCI
- Use 2014 Hurricane Bertha as a “dry run”: 29 July-05 Aug
- Present Timelines: forecast discussions, coordination calls, flight planning, flight track drawing, CARCAH plan of the day, on-the-ground & virtual support, deployment alerts, MTS display, etc.

2015 ONR TCI

Aircraft Flight Operations

Daily Activities

- **7:30 or 8:00 AM EDT: TCI flight planning call (TCI reps)**
 - discuss potential targets (begin with a 5-min weather summary?)
 - flight planning (Day -3 to Day 0)
 - discuss deployment logistics (aircraft & personnel): Day -5 to ...
 - generate plan of the day (POD) >> submit to CARCAH by 9:30-9:45am EDT
- **10:00 AM EDT: coordination >> NOAA IFEX & NOAA SHOUT**
 - NOAA HRD telecon line (866-700-1361; 491147)
 - small group (a few agency reps only)
 - Call to Ellington >> update current thinking & deployment alerts
- **12:00 PM EDT: NOAA HRD weather discussion (~20 min)**
 - NOAA HRD GotoWebinar
 - post briefing: each agency takes a few minutes to summarize plans/thoughts
 - TCI telecon to continue discussion?
- **3:00 PM EDT: TCI special weather briefing (TCI forecasters)**

Wed 29 July <i>Day -5</i>	Thur 30 July <i>Day -4</i>	Fri 31 July <i>Day -3</i>	Sat 01 Aug <i>Day -2</i>	Sun 02 Aug <i>Day -1</i>	Mon 03 Aug <i>Day 0</i>	Tue 04 Aug <i>Day +1</i>	Wed 05 Aug <i>Day +2</i>
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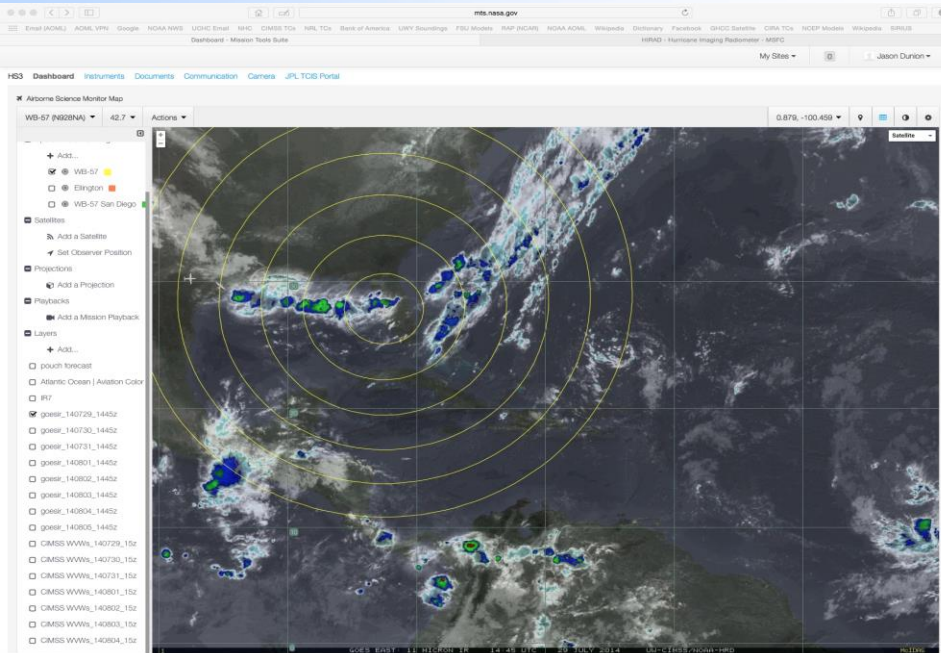
Day -5: Wednesday 29 July

2015 ONR TCI

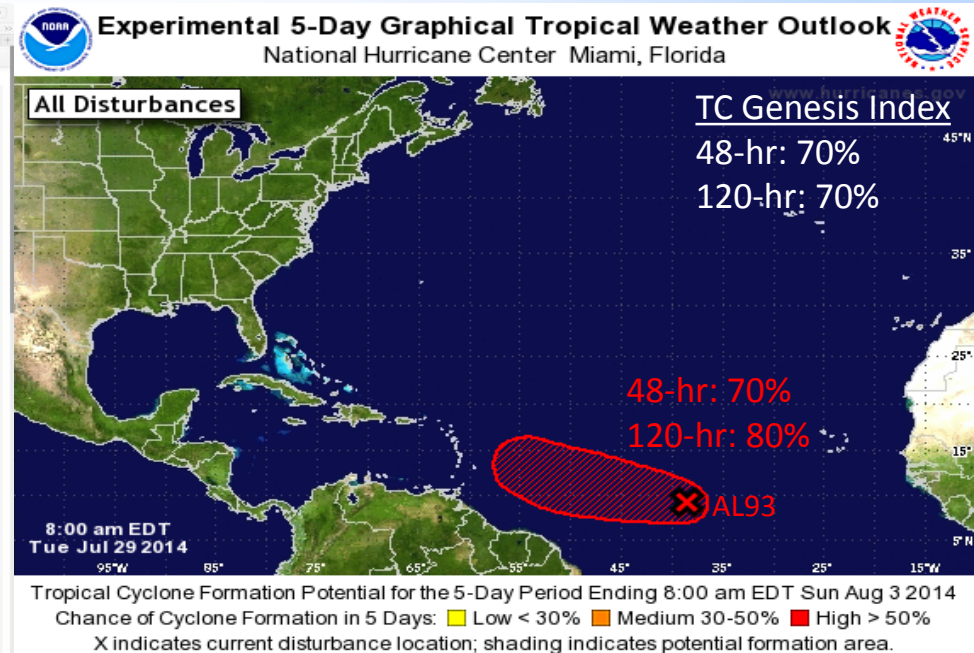
Aircraft Flight Operations

Day -5: Wednesday 29 July

GOES Enhanced IR; WB-57 Range Rings (1-hr)



NHC Tropical Weather Outlook



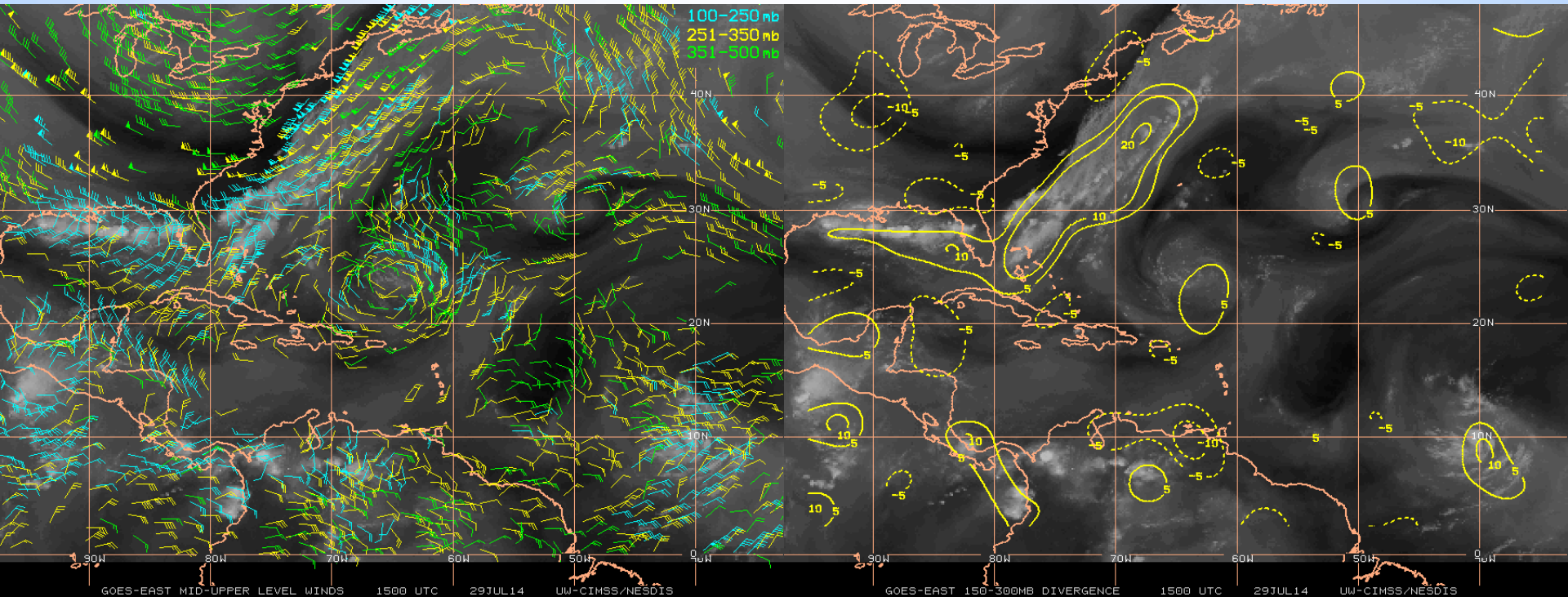
2015 ONR TCI

Aircraft Flight Operations

Day -5: Wednesday 29 July

CIMSS Water Vapor AMVs

CIMSS 150-300 hPa Divergence

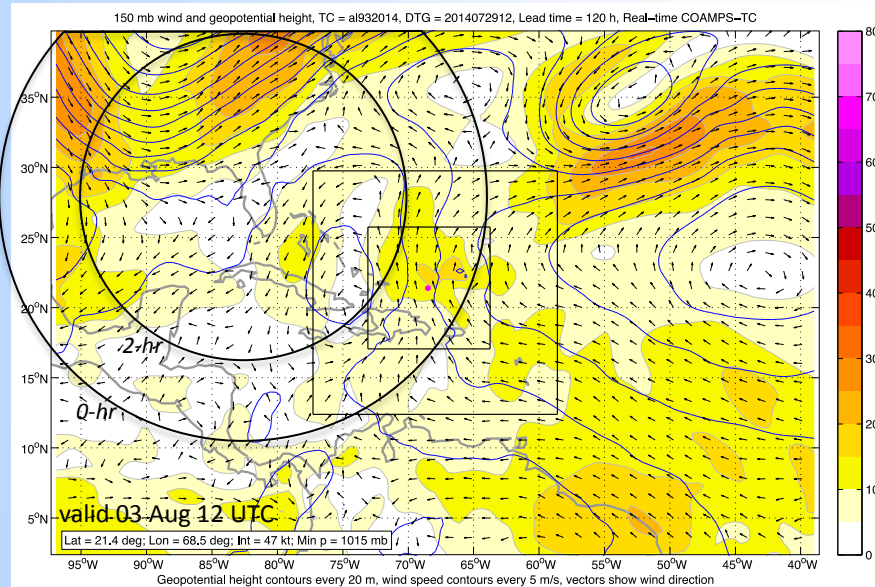


2015 ONR TCI

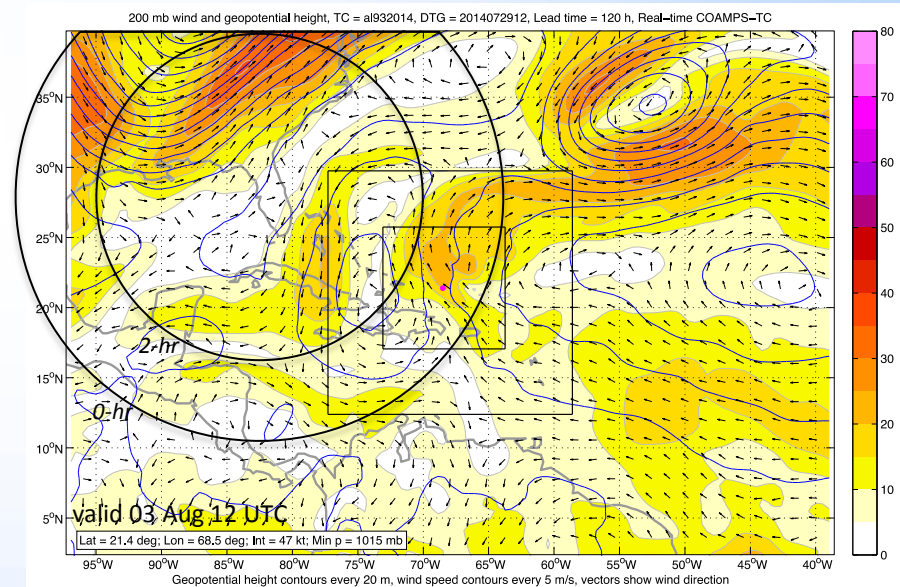
Aircraft Flight Operations

Day -5: Wednesday 29 July

COAMPS-TC: 150 hPa GPH & Winds



COAMPS-TC: 200 hPa GPH & Winds



Wed 29 July Day -5	Thur 30 July Day -4	Fri 31 July Day -3	Sat 01 Aug Day -2	Sun 02 Aug Day -1	Mon 03 Aug Day 0	Tue 04 Aug Day +1	Wed 05 Aug Day +2
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TCI Flight Ops: Bertha (Day -5)

Daily Activities:

- 7:30 or 8:00 AM EDT: TCI flight planning call
 - discuss possible target: AL93 & IFEX/SHOUT coordination
 - discuss possible deployment sites (St. Croix or MacDill)
 - submit POD to CARCAH
- 10:00 AM EDT: coordination call with NOAA IFEX & SHOUT
 - highlight interest in AL93
 - discuss IFEX & SHOUT interest
 - Call Ellington >> AL93 & possible deployment
- 12:00 PM EDT: NOAA HRD weather discussion (~20 min)
 - highlight interest in AL93
- 3:00 PM EDT: TCI special weather briefing
 - highlight interest in AL93

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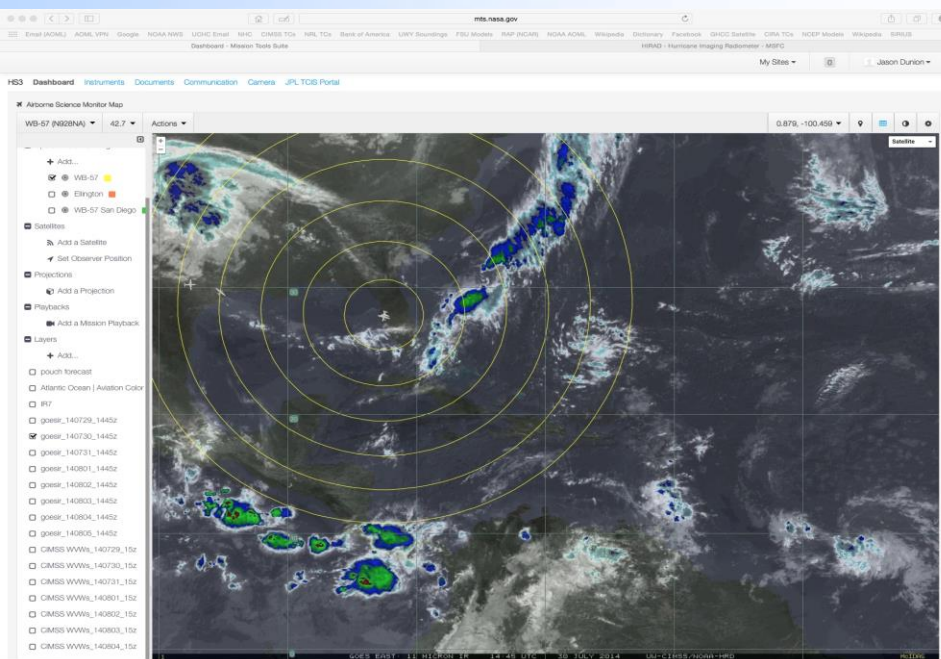
Day -4: Thursday 30 July

2015 ONR TCI

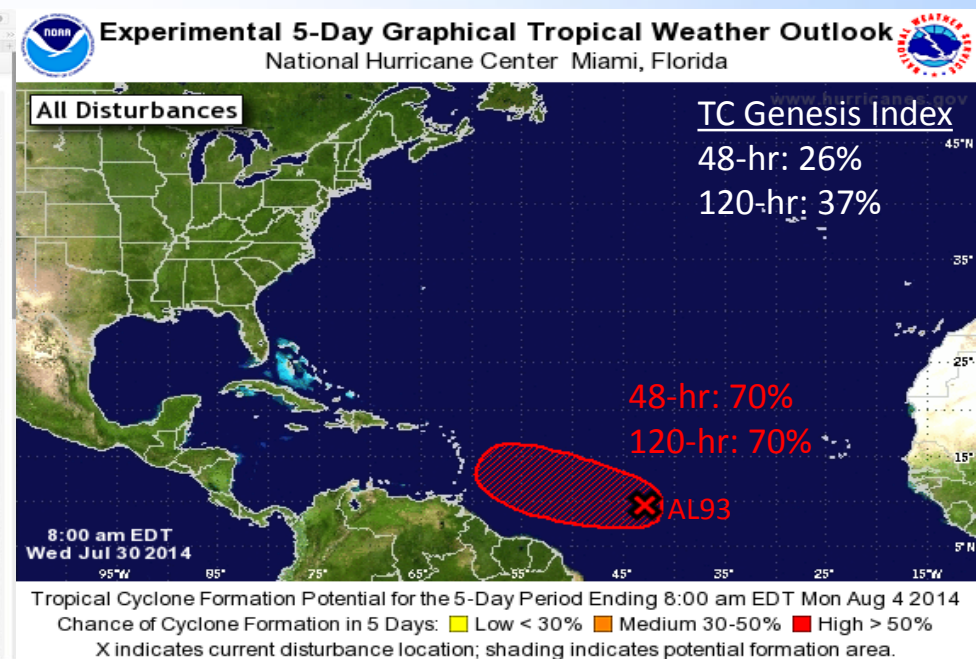
Aircraft Flight Operations

Day -4: Thursday 30 July

GOES Enhanced IR; WB-57 Range Rings (1-hr)



NHC Tropical Weather Outlook

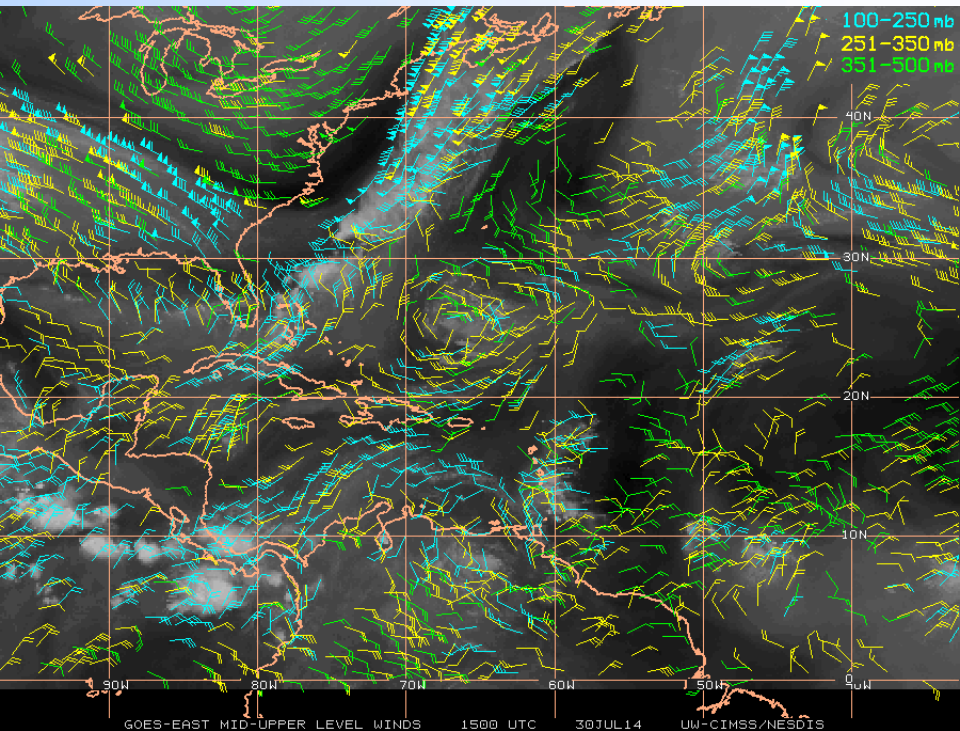


2015 ONR TCI

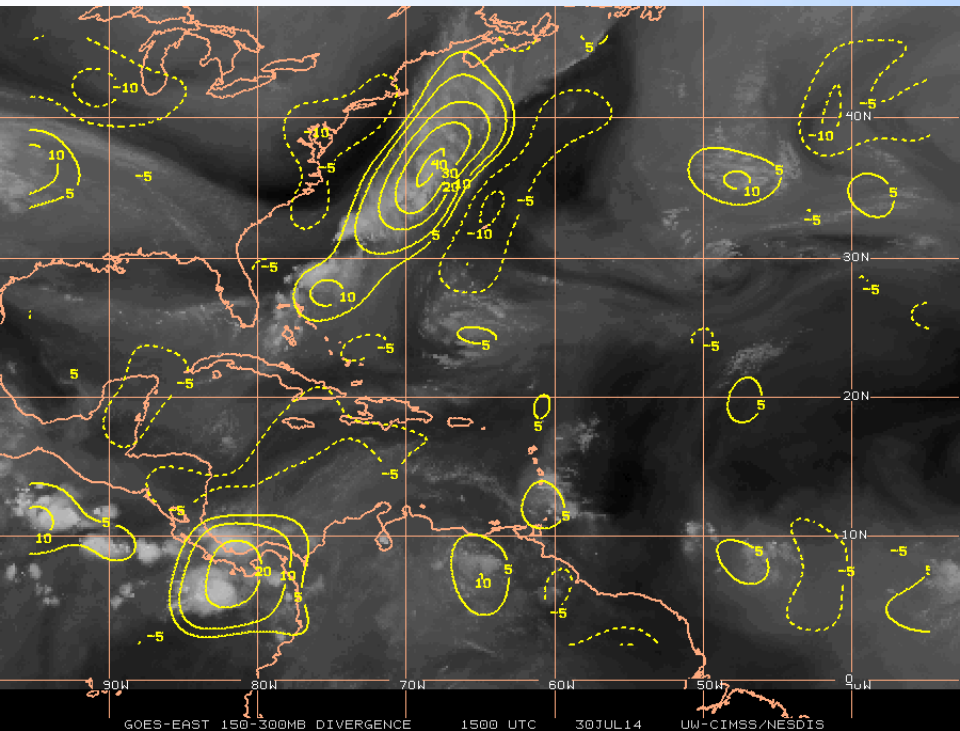
Aircraft Flight Operations

Day -4: Thursday 30 July

CIMSS Water Vapor AMVs



CIMSS 150-300 hPa Divergence

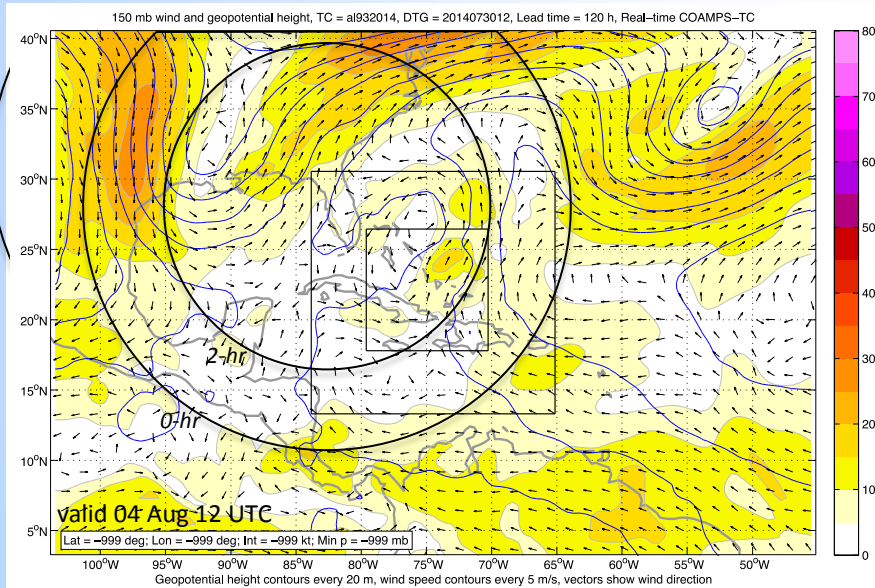


2015 ONR TCI

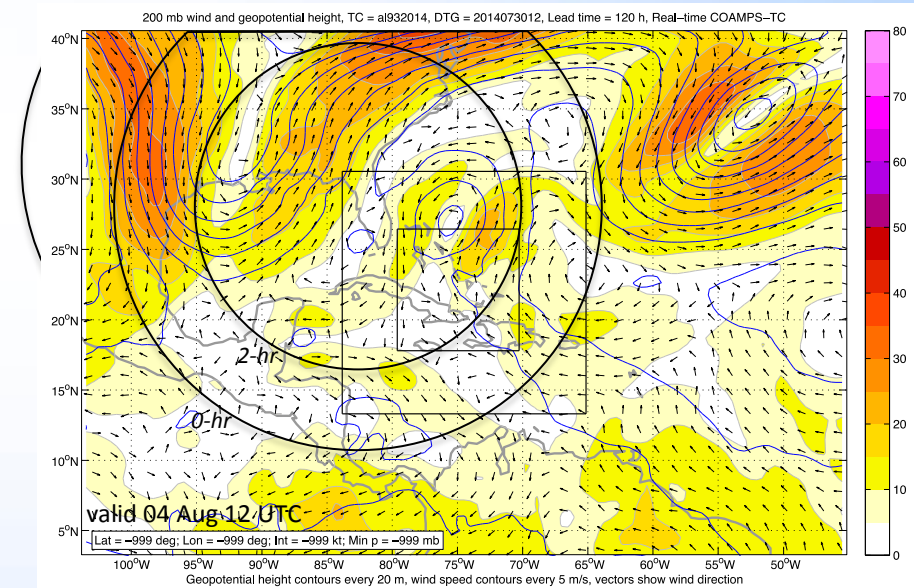
Aircraft Flight Operations

Day -4: Thursday 30 July

COAMPS-TC: 150 hPa GPH & Winds



COAMPS-TC: 200 hPa GPH & Winds



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TCI Flight Ops: Bertha (Day -4)

Daily Activities

- 7:30 or 8:00 AM EDT: TCI flight planning call
 - discuss possible target: AL93 & IFEX/SHOUT coordination
 - discuss possible deployment (MacDill)
 - submit POD to CARCAH

- 10:00 AM EDT: coordination call with NOAA IFEX & SHOUT
 - highlight interest in AL93
 - discuss IFEX & SHOUT interest
 - Call Ellington >> alert for pre-deployment (arrive MacDill on Day -3)

- 12:00 PM EDT: NOAA HRD weather discussion (~20 min)
 - highlight interest in AL93

- 3:00 PM EDT: TCI special weather briefing
 - highlight interest in AL93

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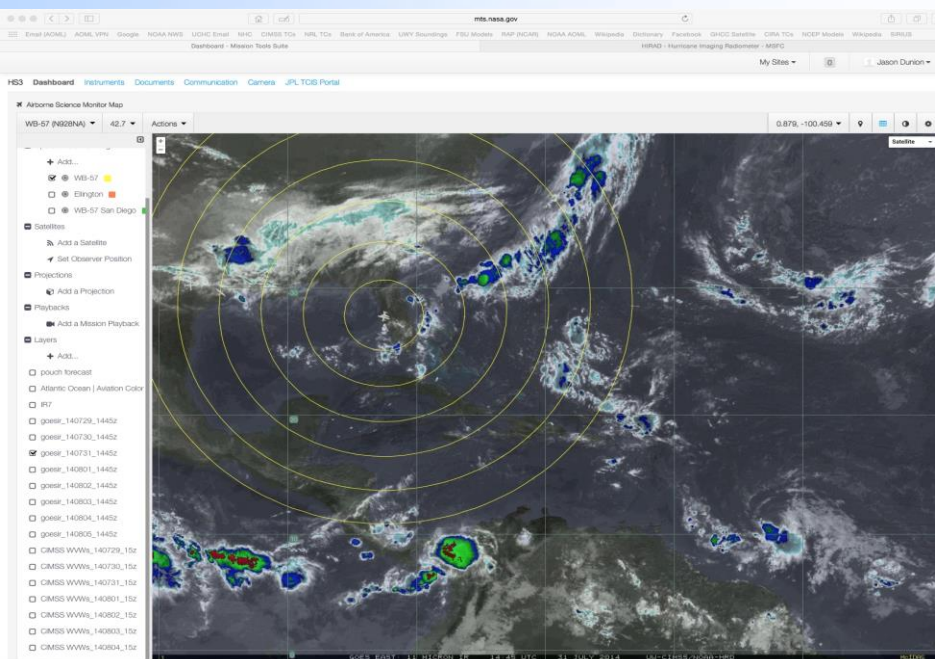
Day -3: Friday 31 July

2015 ONR TCI

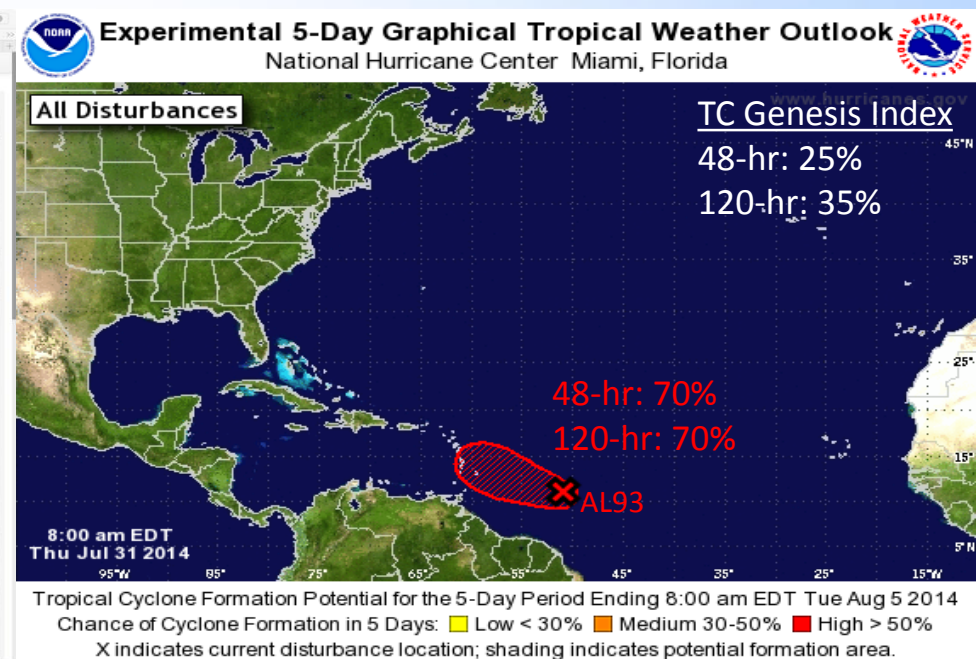
Aircraft Flight Operations

Day -3: Friday 31 July

GOES Enhanced IR



NHC Tropical Weather Outlook



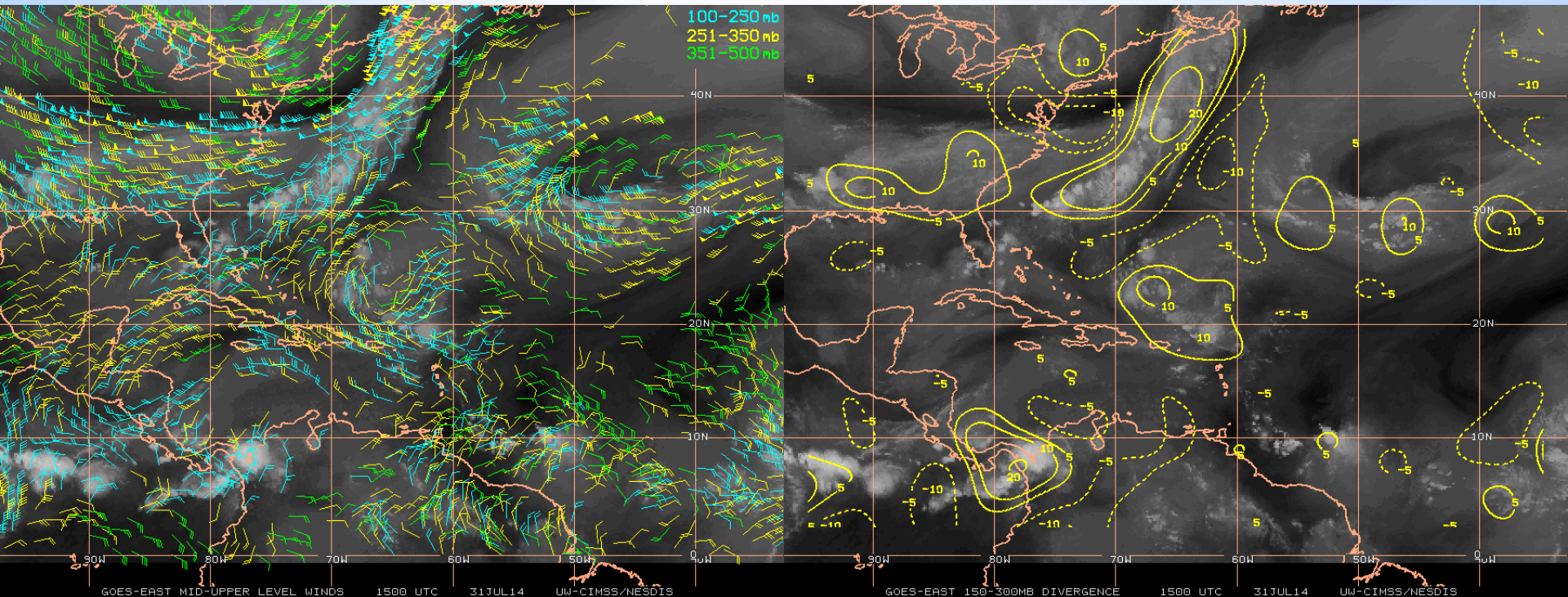
2015 ONR TCI

Aircraft Flight Operations

Day -3: Friday 31 July

CIMSS Water Vapor AMVs

CIMSS 150-300 hPa Divergence

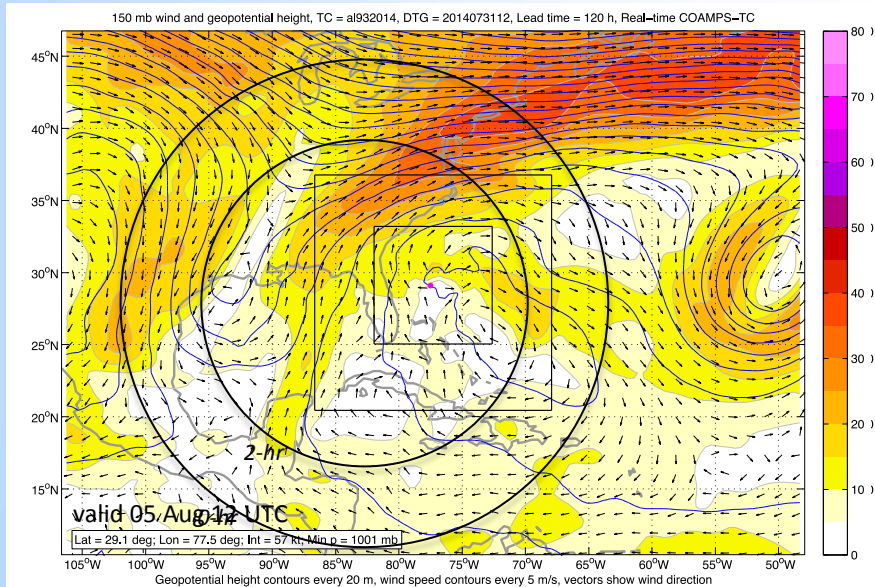


2015 ONR TCI

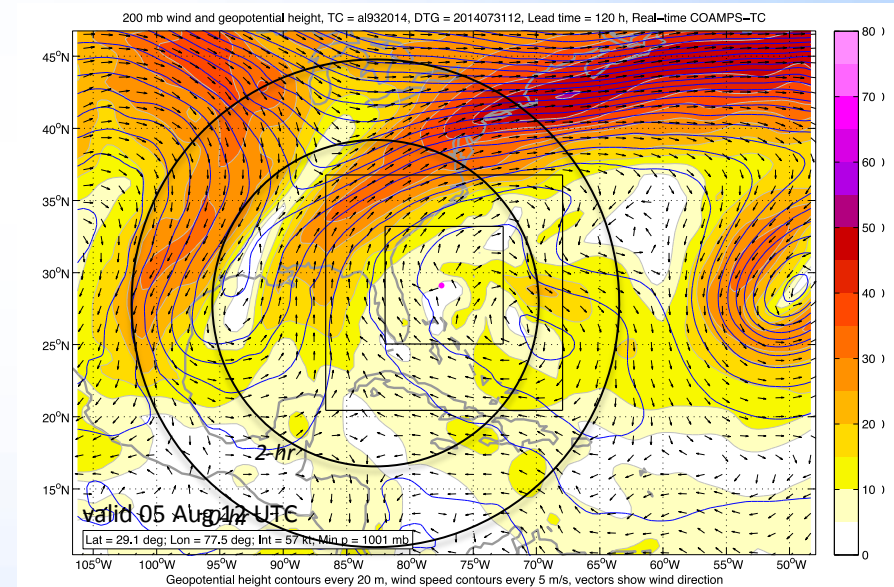
Aircraft Flight Operations

Day -3: Friday 31 July

COAMPS-TC: 150 hPa GPH & Winds



COAMPS-TC: 200 hPa GPH & Winds



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TCI Flight Ops: Bertha (Day -3)

Daily Activities

- 7:30 or 8:00 AM EDT: TCI flight planning call
 - discuss target: AL93 & IFEX/SHOUT coordination
 - implement deployment (MacDill)
 - begin brainstorming WB-57 flight patterns >> 03 Aug
 - submit POD to CARCAH
- 10:00 AM EDT: coordination call with NOAA IFEX & SHOUT
 - highlight interest in AL93
 - confirm IFEX & SHOUT interests and targets
 - Call Ellington >> alert for full deployment (arrive Day -2)
- 12:00 PM EDT: NOAA HRD weather discussion (~20 min)
 - highlight interest in AL93
- 3:00 PM EDT: TCI special weather briefing
 - emphasis on AL93

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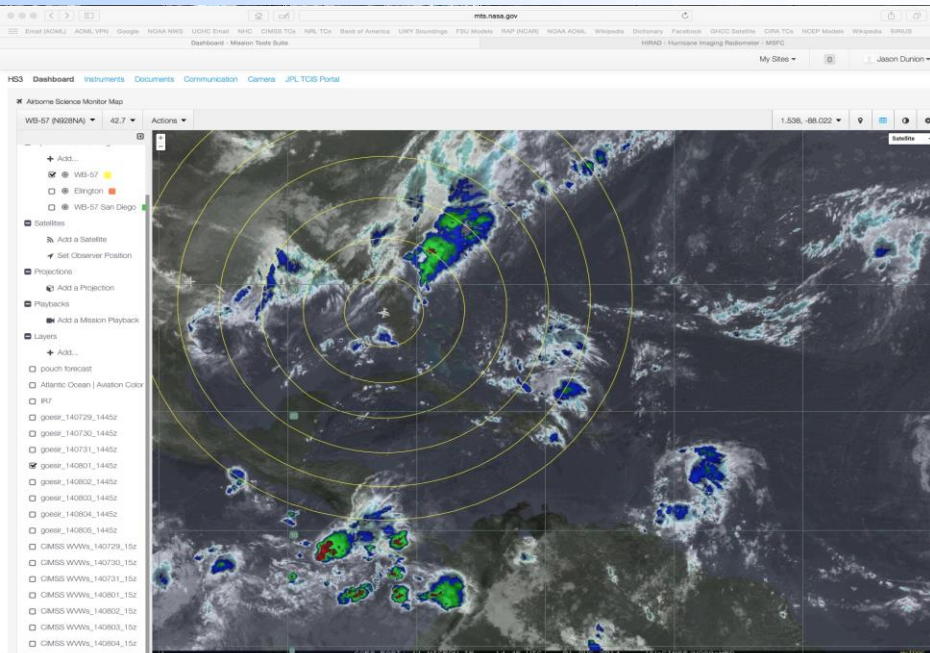
Day -2: Saturday 01 Aug

2015 ONR TCI

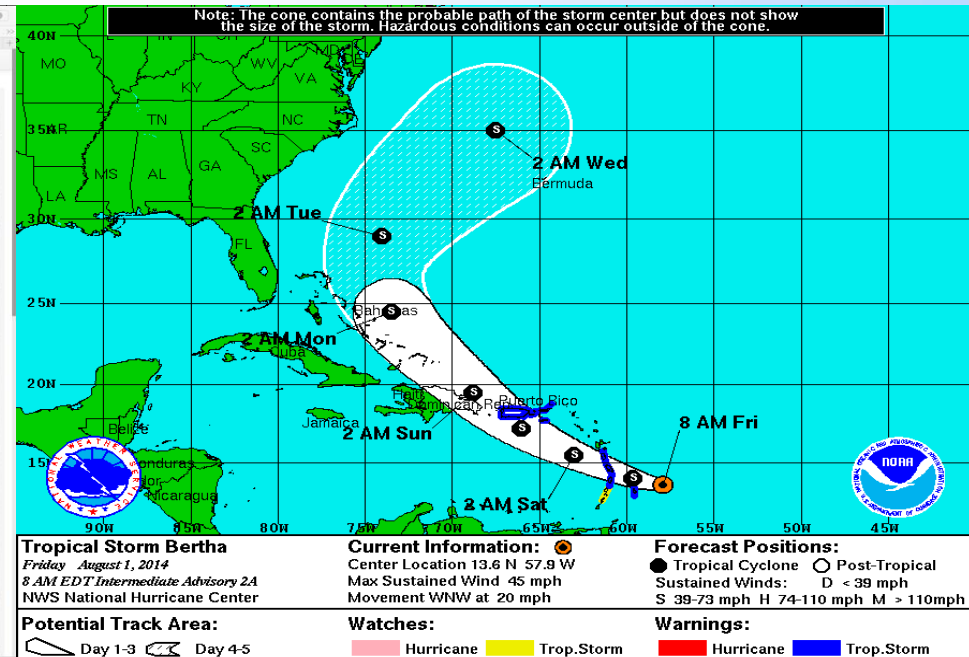
Aircraft Flight Operations

Day -2: Saturday 01 Aug

GOES Enhanced IR



NHC 5-Day Cone/Warnings

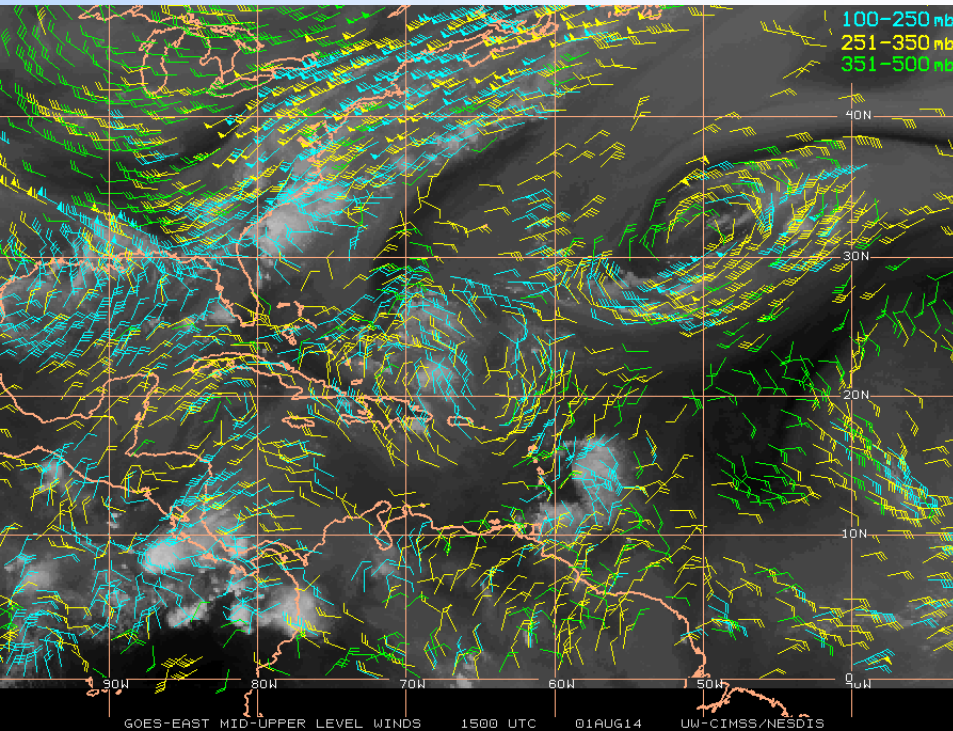


2015 ONR TCI

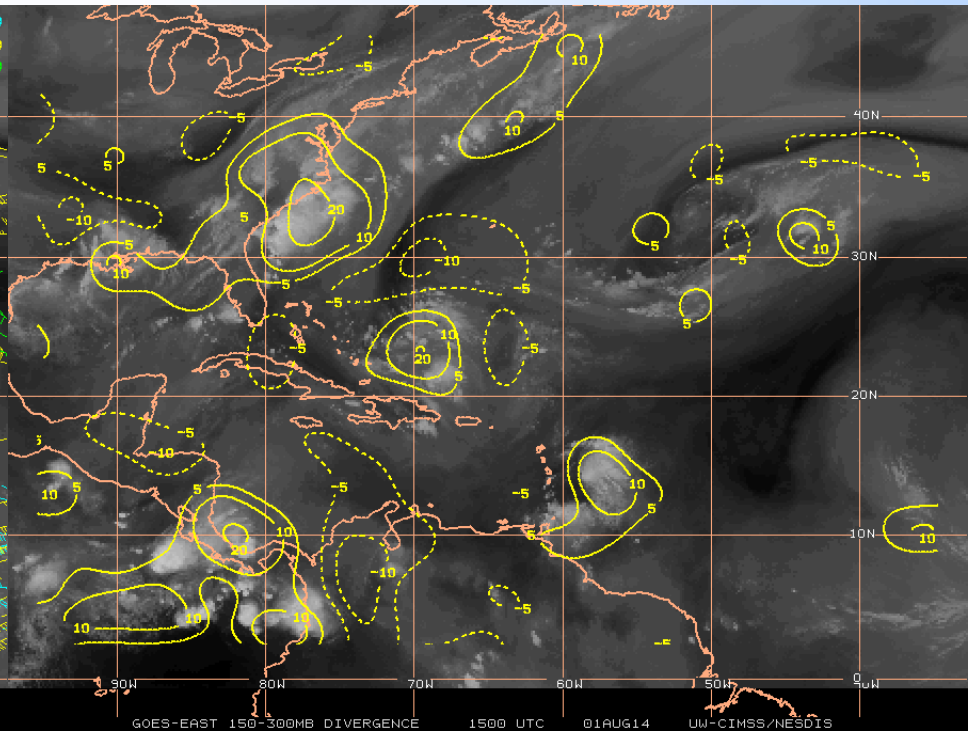
Aircraft Flight Operations

Day -2: Saturday 01 Aug

CIMSS Water Vapor AMVs



CIMSS 150-300 hPa Divergence

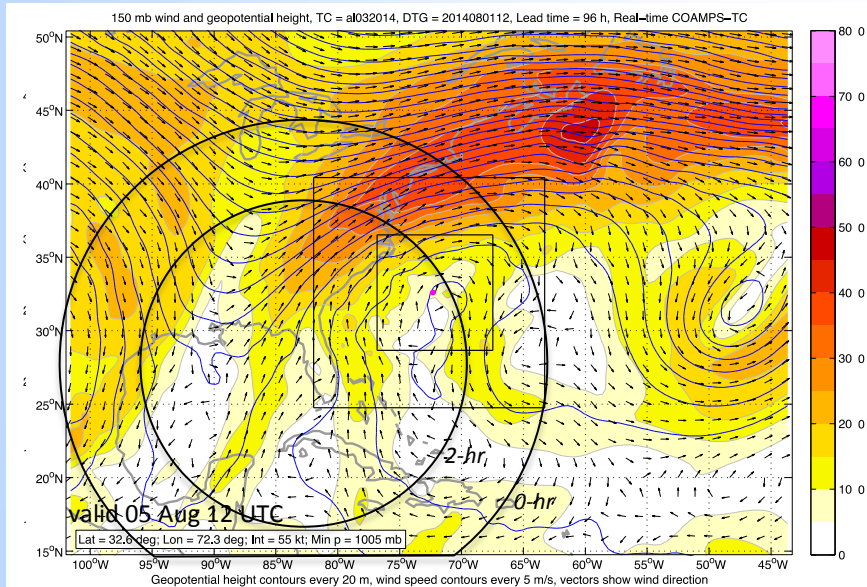


2015 ONR TCI

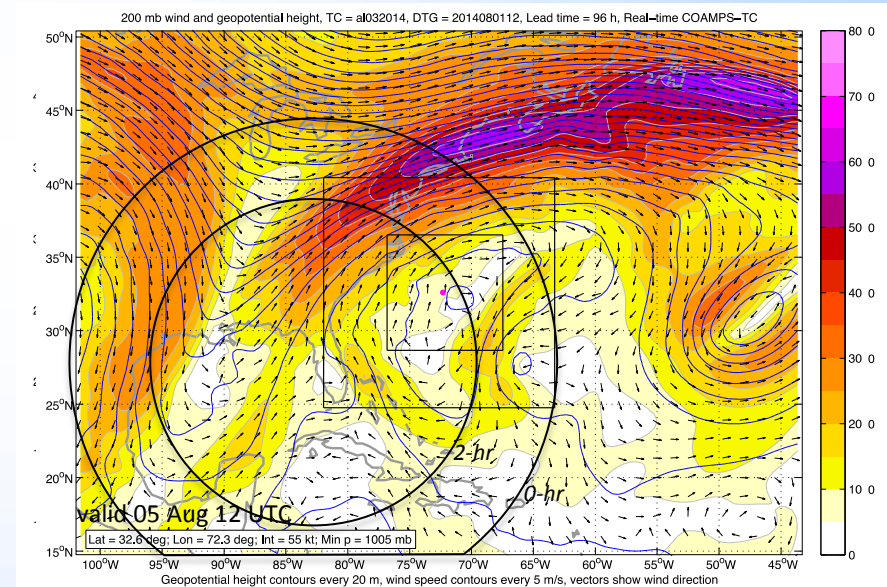
Aircraft Flight Operations

Day -2: Saturday 01 Aug

COAMPS-TC: 150 hPa GPH & Winds



COAMPS-TC: 200 hPa GPH & Winds



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Daily Activities

TCI Flight Ops: Bertha (Day -2)

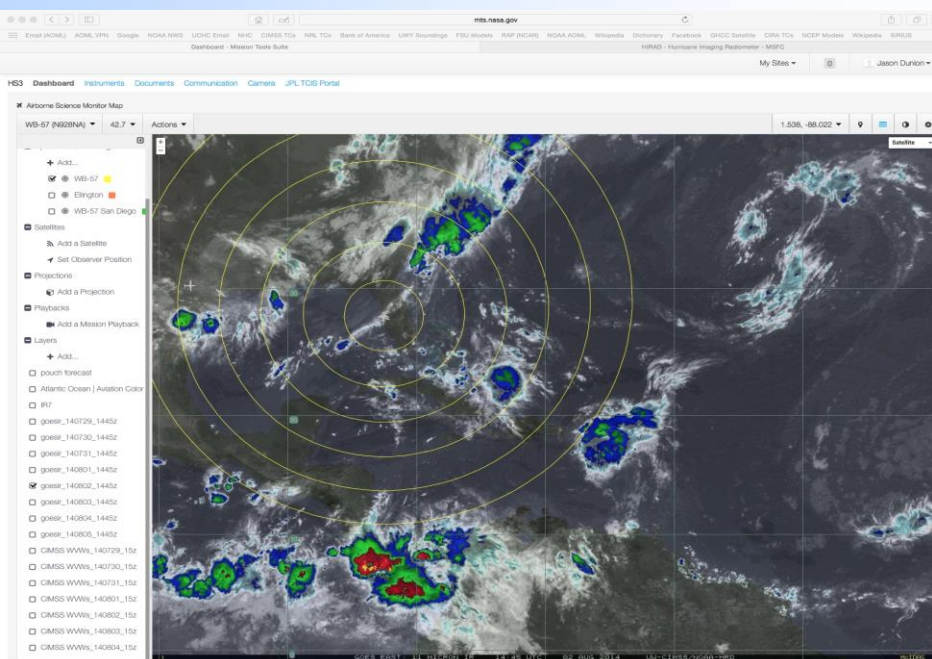
- 7:30 or 8:00 AM EDT: TCI flight planning call
 - discuss target: TS Bertha
 - discuss ongoing MacDill deployment & possible Wallops recovery (05 Aug)
 - select strawman WB-57 flight pattern >> Mon 03 Aug
 - begin brainstorming WB-57 flight patterns >> Tues 04 Aug
 - submit POD to CARCAH
- 10:00 AM EDT: coordination call with NOAA IFEX & SHOUT
 - highlight interest in TS Bertha
 - discuss IFEX & SHOUT interests & targets
 - Call Ellington >> full deployment ongoing (03 Aug); alert >> WB-57 deployment to MacDill; alert for 03 & 04 Aug missions
- 12:00 PM EDT: NOAA HRD weather discussion (~20 min)
 - NO WEEKEND BRIEFINGS**
- 3:00 PM EDT: TCI special weather briefing
 - emphasis on TS Bertha

Wed 29 July <i>Day -5</i>	Thur 30 July <i>Day -4</i>	Fri 31 July <i>Day -3</i>	Sat 01 Aug <i>Day -2</i>	Sun 02 Aug <i>Day -1</i>	Mon 03 Aug <i>Day 0</i>	Tue 04 Aug <i>Day +1</i>	Wed 05 Aug <i>Day +2</i>
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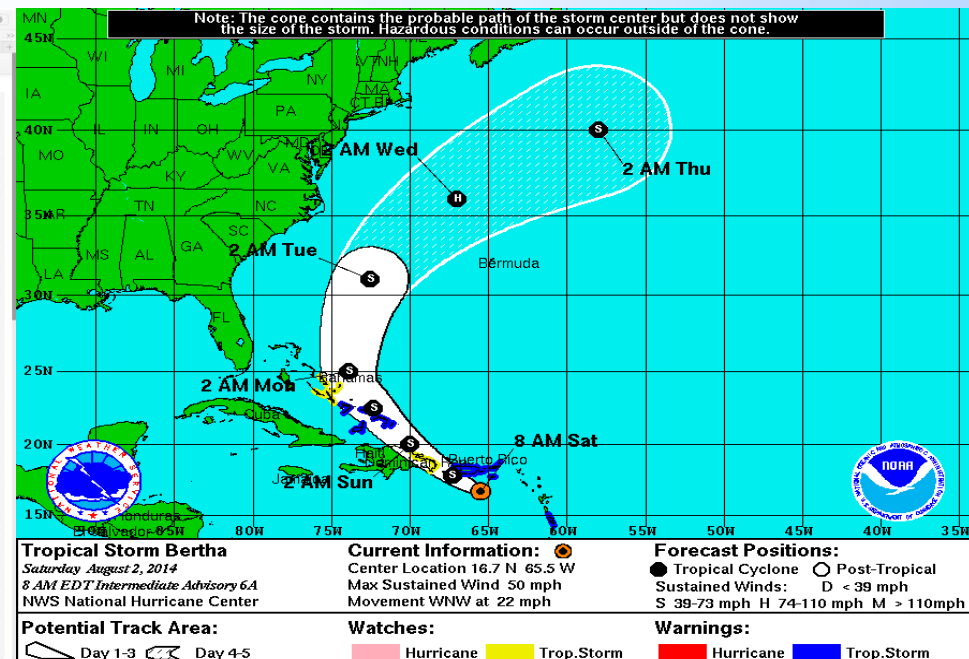
Day -1: Sunday 02 Aug

2015 ONR TCI Aircraft Flight Operations Day -1: Sunday 02 Aug

GOES Enhanced IR



NHC 5-Day Cone/Warnings

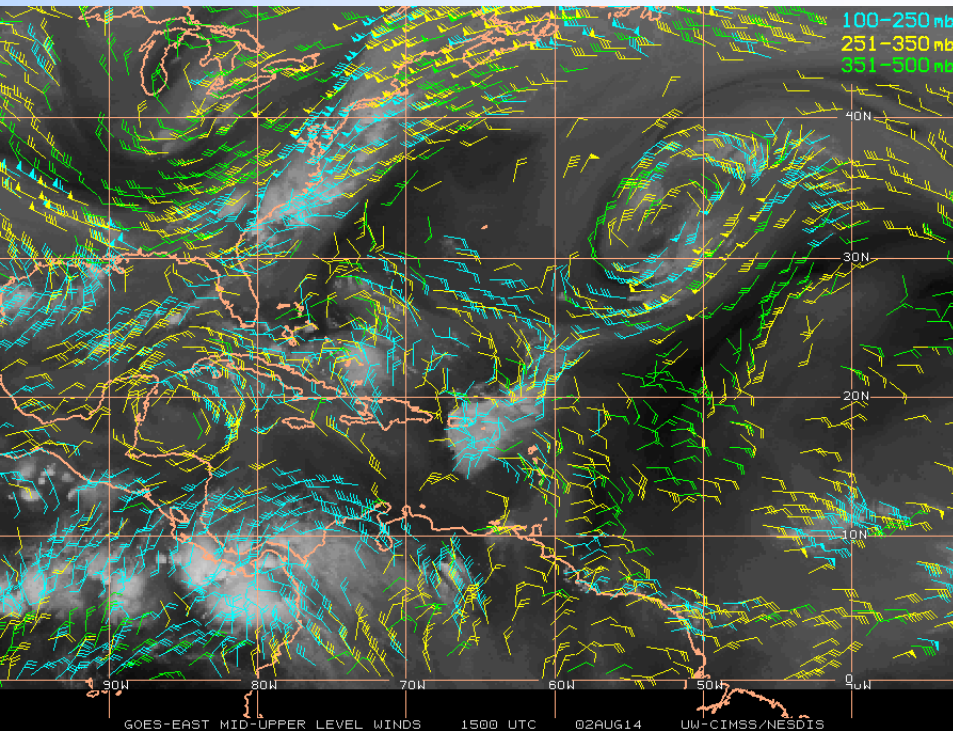


2015 ONR TCI

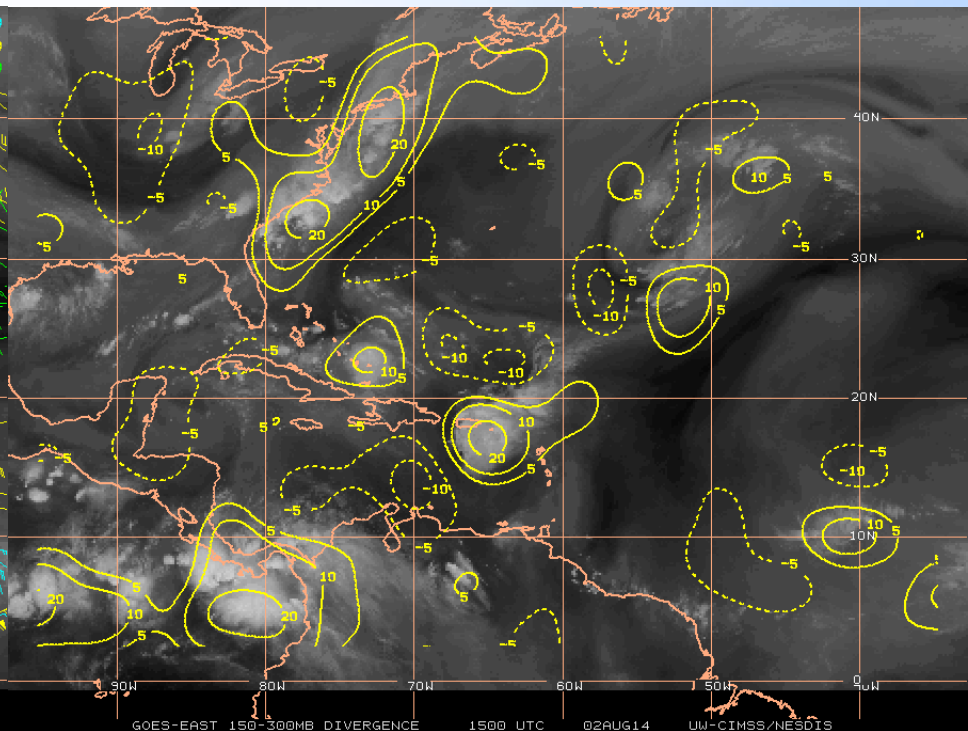
Aircraft Flight Operations

Day -1: Sunday 02 Aug

CIMSS Water Vapor AMVs



CIMSS 150-300 hPa Divergence

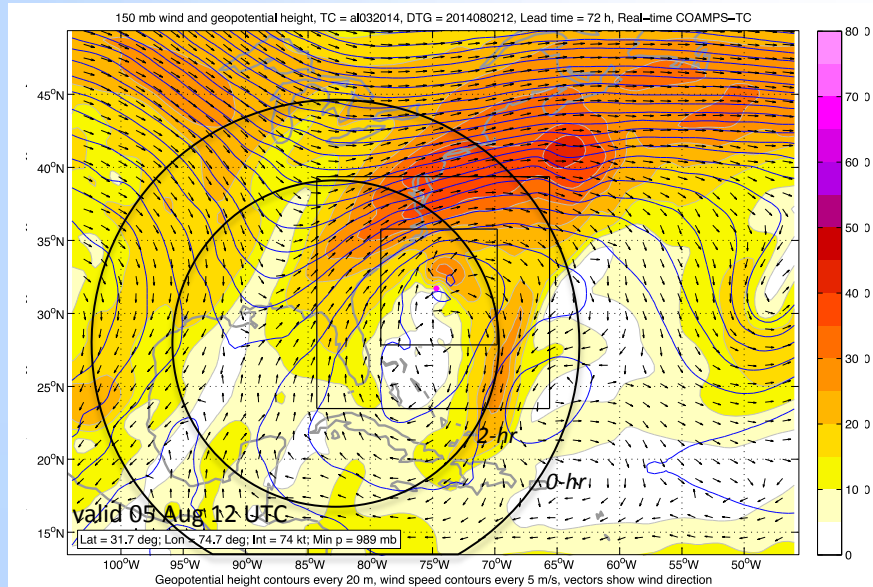


2015 ONR TCI

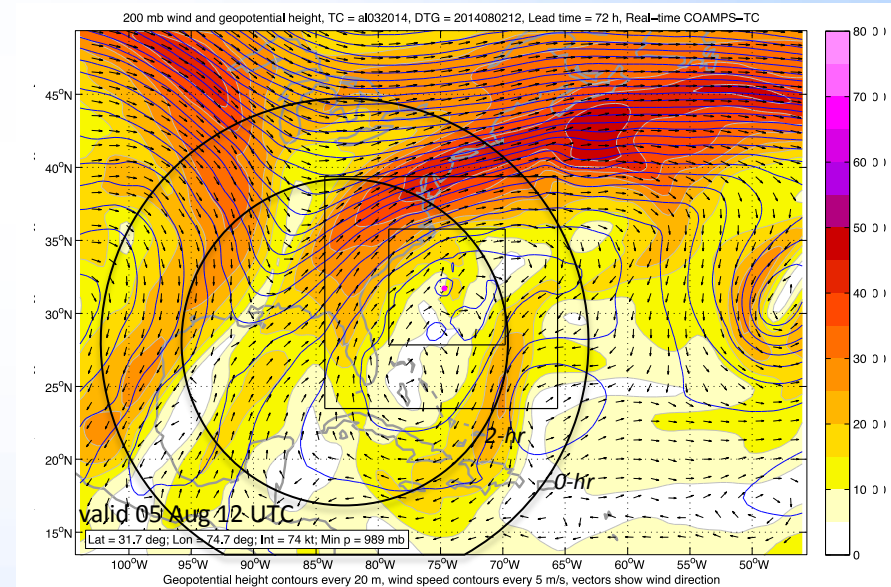
Aircraft Flight Operations

Day -1: Sunday 02 Aug

COAMPS-TC: 150 hPa GPH & Winds



COAMPS-TC: 200 hPa GPH & Winds



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Daily Activities

TCI Flight Ops: Bertha (Day -1)

- 7:30 or 8:00 AM EDT: TCI flight planning call
 - discuss target: TS Bertha & IFEX/SHOUT coordination
 - discuss ongoing MacDill deployment; possible Wallops recovery >> 05 Aug
 - upload WB-57 flight pattern (MTS Plan 1 & pilots) >> 03 Aug
 - continue brainstorming WB-57 flight patterns >> 04 Aug
 - submit POD to CARCAH (03 Aug & outlook for 04 Aug)
- 10:00 AM EDT: coordination call with NOAA IFEX & NOAA SHOUT
 - highlight interest in TS Bertha
 - discuss IFEX & SHOUT interests & targets
 - Call Ellington >> alert for 03/04/05 Aug missions; alert for WB-57 possible recovery at Wallops >> 05 Aug
- 12:00 PM EDT: NOAA HRD weather discussion (~20 min)
 - NO WEEKEND BRIEFINGS**
- 3:00 PM EDT: TCI special weather briefing
 - emphasis on TS Bertha

Wed 29 July <i>Day -5</i>	Thur 30 July <i>Day -4</i>	Fri 31 July <i>Day -3</i>	Sat 01 Aug <i>Day -2</i>	Sun 02 Aug <i>Day -1</i>	Mon 03 Aug <i>Day 0</i>	Tue 04 Aug <i>Day +1</i>	Wed 05 Aug <i>Day +2</i>
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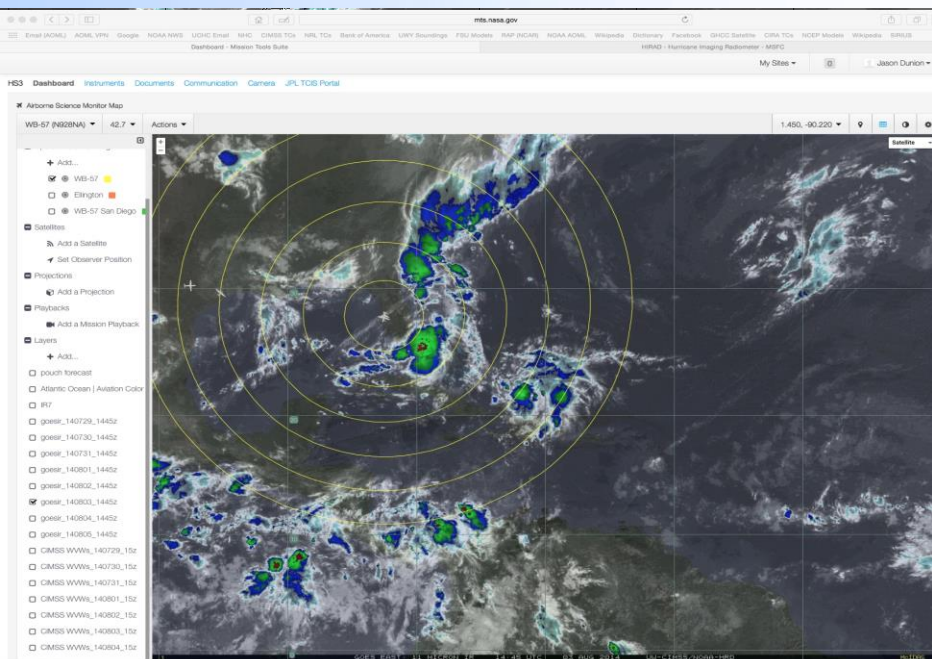
Day 0: Monday 03 Aug

2015 ONR TCI

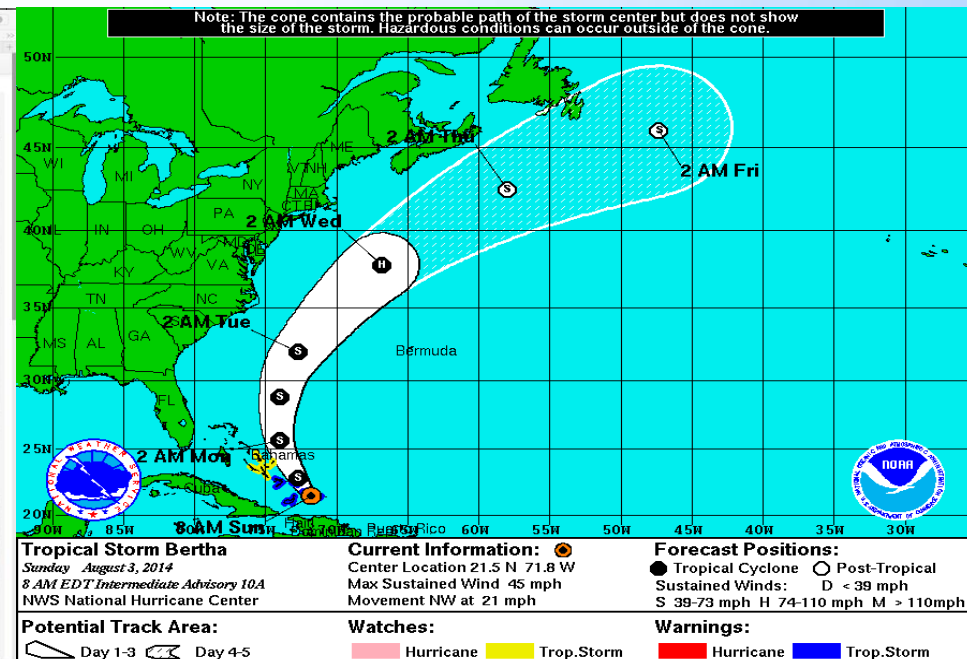
Aircraft Flight Operations

Day 0: Monday 03 Aug

GOES Enhanced IR



NHC 5-Day Cone/Warnings

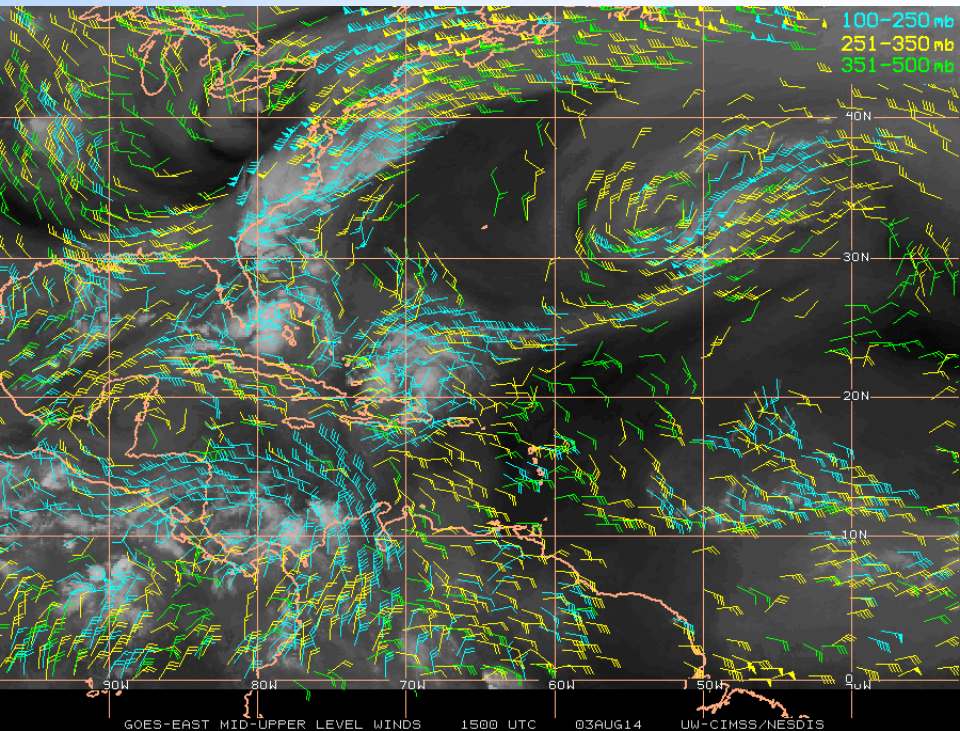


2015 ONR TCI

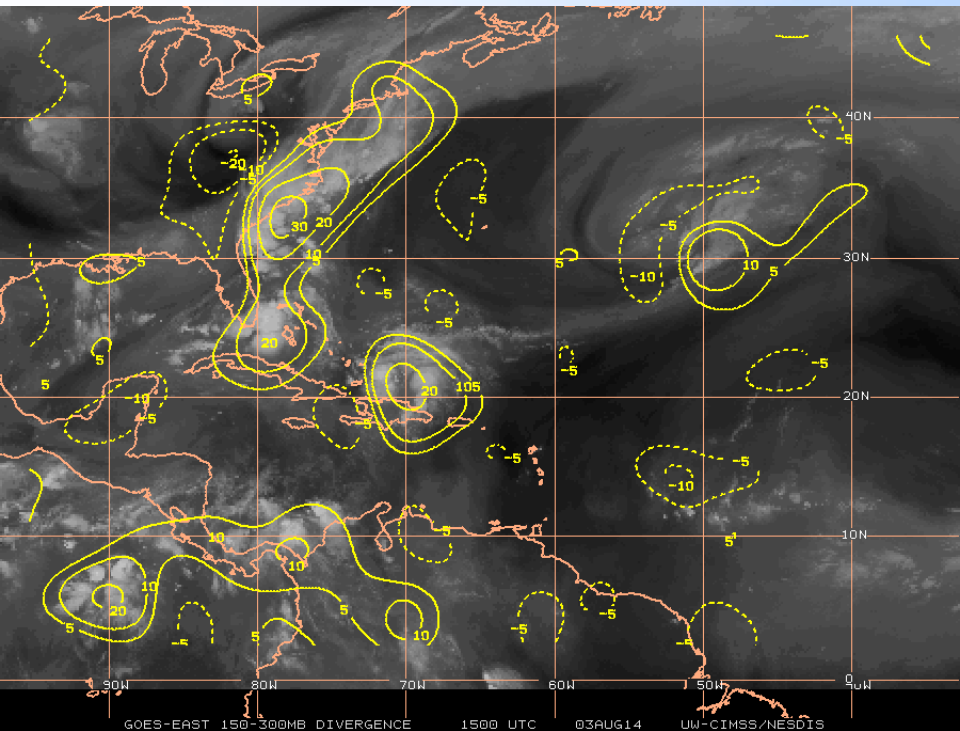
Aircraft Flight Operations

Day 0: Monday 03 Aug

CIMSS Water Vapor AMVs



CIMSS 150-300 hPa Divergence

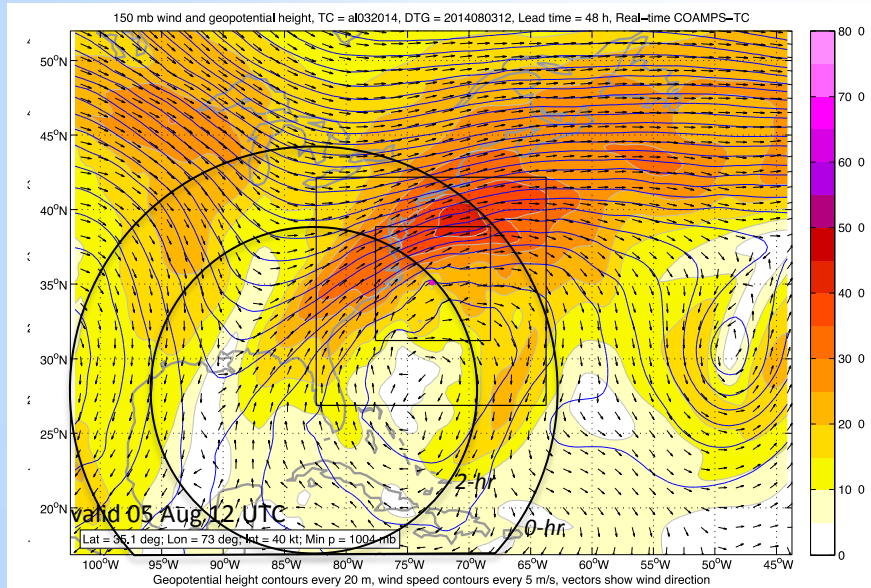


2015 ONR TCI

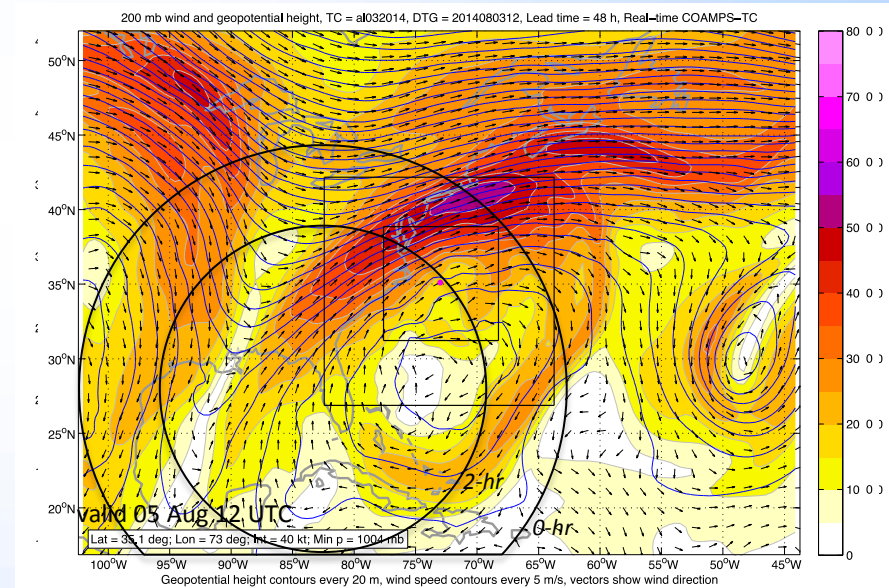
Aircraft Flight Operations

Day 0: Monday 03 Aug

COAMPS-TC: 150 hPa GPH & Winds



COAMPS-TC: 200 hPa GPH & Winds

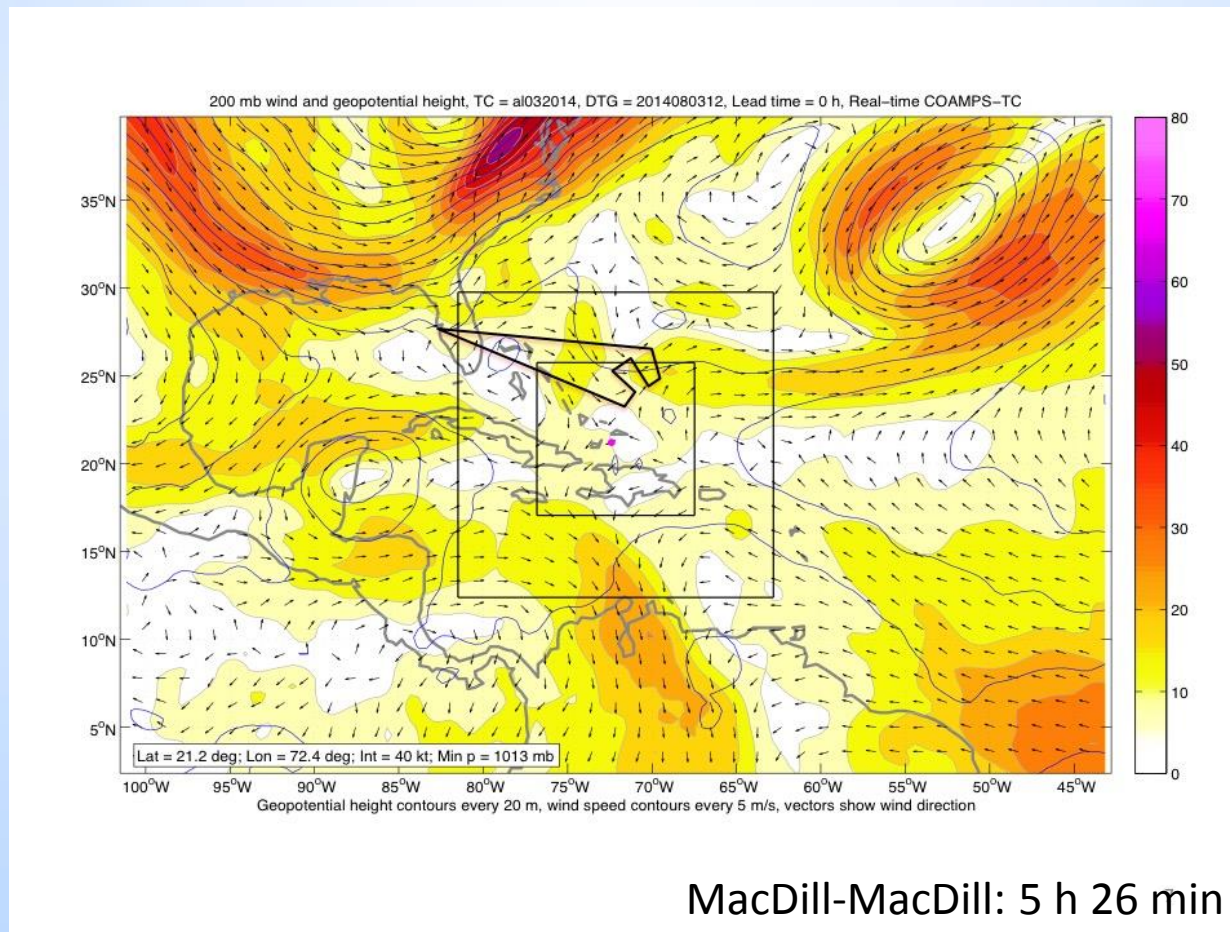


2015 ONR TCI

Aircraft Flight Operations

Day 0: Monday 03 Aug

CIMSS Water Vapor AMVs ; COAMPS-TC: 150 & 200 hPa GPH & Winds



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Daily Activities

TCI Flight Ops: Bertha (Day 0)

- 7:30 or 8:00 AM EDT: TCI flight planning call
 - discuss target: TS Bertha & IFEX/SHOUT coordination
 - discuss ongoing MacDill deployment & possible Wallops recovery >> 05 Aug
 - upload WB-57 flight pattern (MTS Plan 2 & pilots) >> 04 Aug
 - begin brainstorming WB-57 flight patterns >> 05 Aug
 - submit POD to CARCAH (04 & 05 Aug)
- 10:00 AM EDT: coordination call with NOAA IFEX & SHOUT
 - highlight interest in TS Bertha
 - discuss IFEX & SHOUT interests & targets
 - Call Ellington >> alert for 04/05 Aug missions; alert for WB-57 recovery at Wallops >> 05 Aug
- 12:00 PM EDT: NOAA HRD weather discussion (~20 min)
 - highlight TS Bertha missions
- 3:00 PM EDT: TCI special weather briefing
 - emphasis on TS Bertha

Wed 29 July <i>Day -5</i>	Thur 30 July <i>Day -4</i>	Fri 31 July <i>Day -3</i>	Sat 01 Aug <i>Day -2</i>	Sun 02 Aug <i>Day -1</i>	Mon 03 Aug <i>Day 0</i>	Tue 04 Aug <i>Day +1</i>	Wed 05 Aug <i>Day +2</i>
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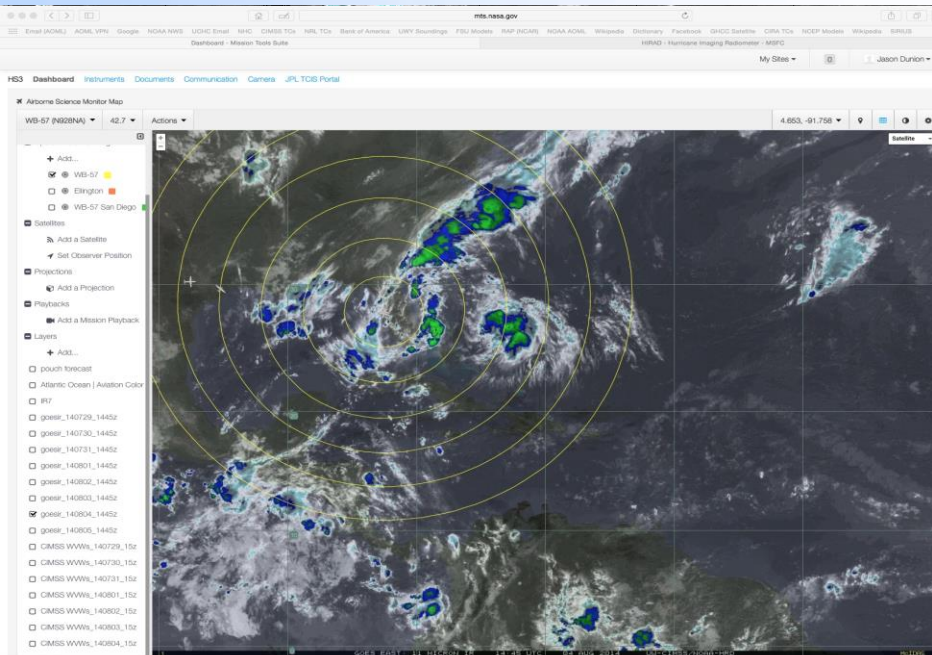
Day +1: Tuesday 04 Aug

2015 ONR TCI

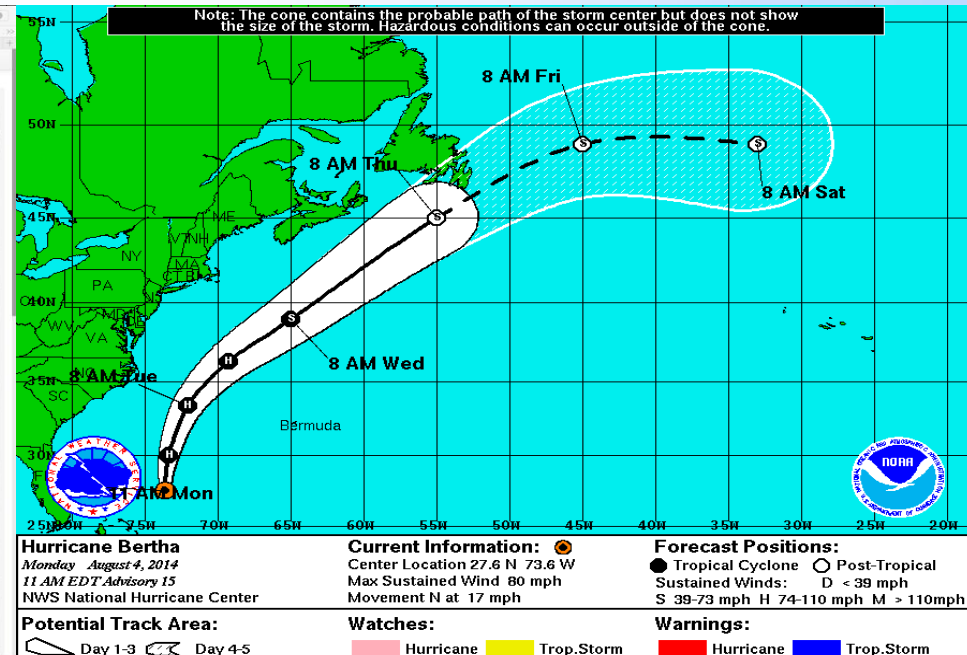
Aircraft Flight Operations

Day +1: Tuesday 04 Aug

GOES Enhanced IR



NHC 5-Day Cone/Warnings

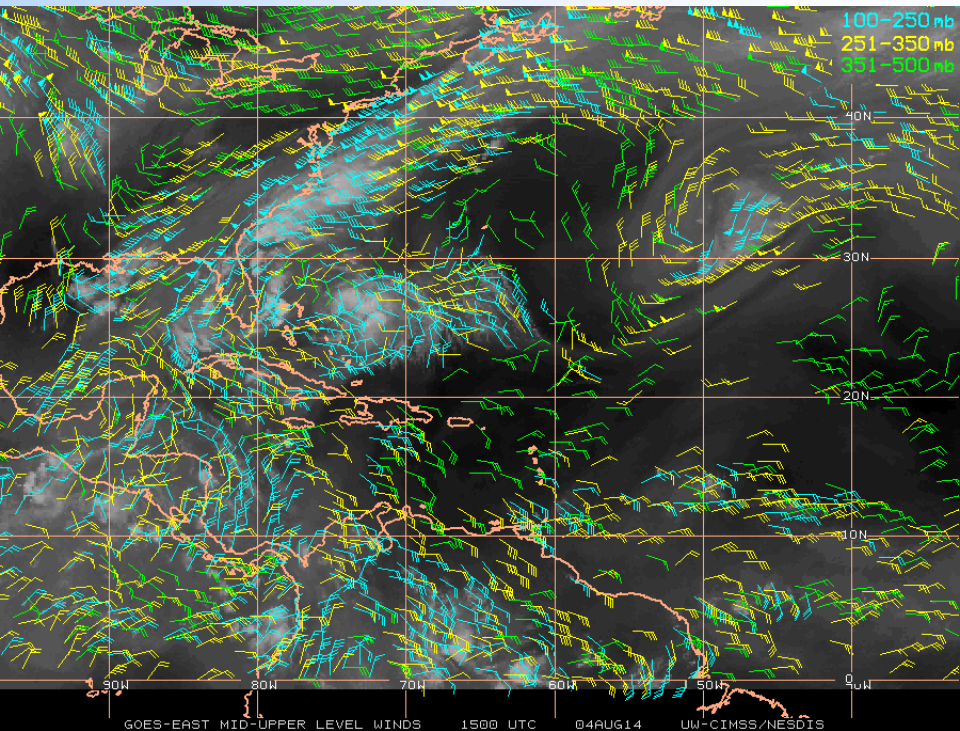


2015 ONR TCI

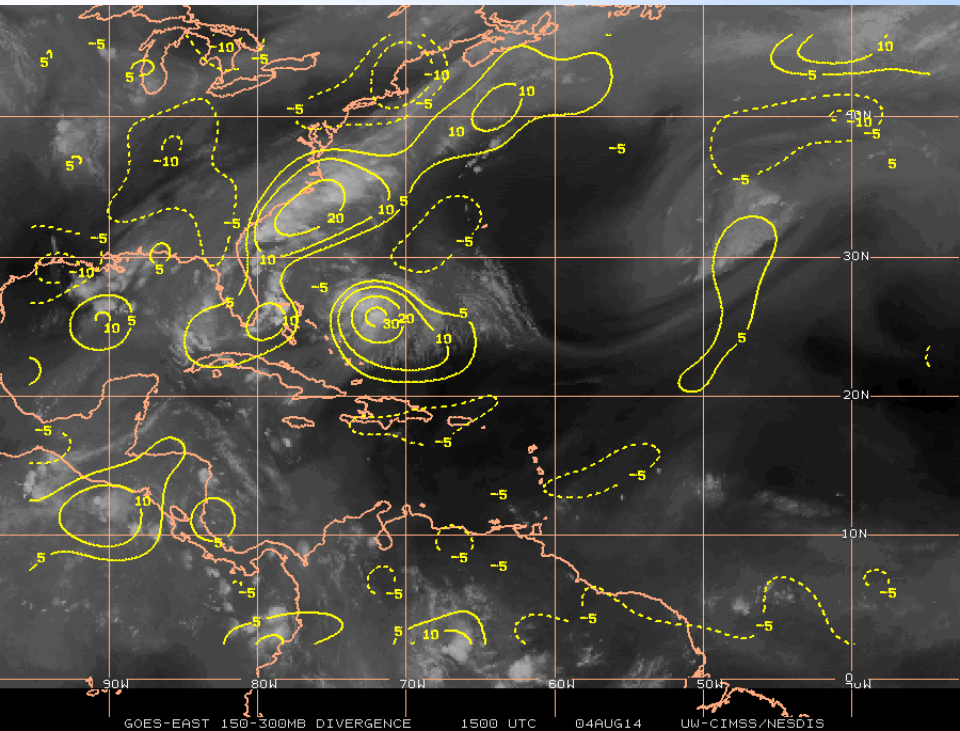
Aircraft Flight Operations

Day +1: Tuesday 04 Aug

CIMSS Water Vapor AMVs



CIMSS 150-300 hPa Divergence

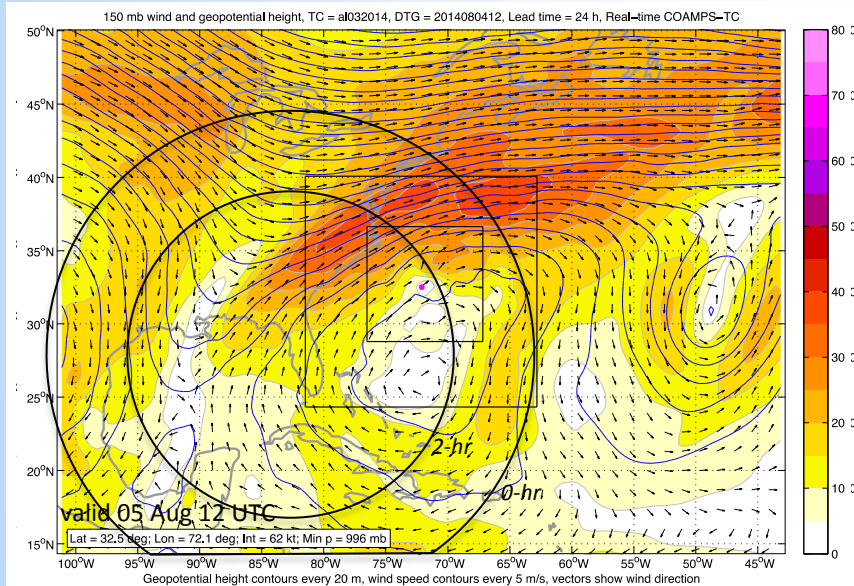


2015 ONR TCI

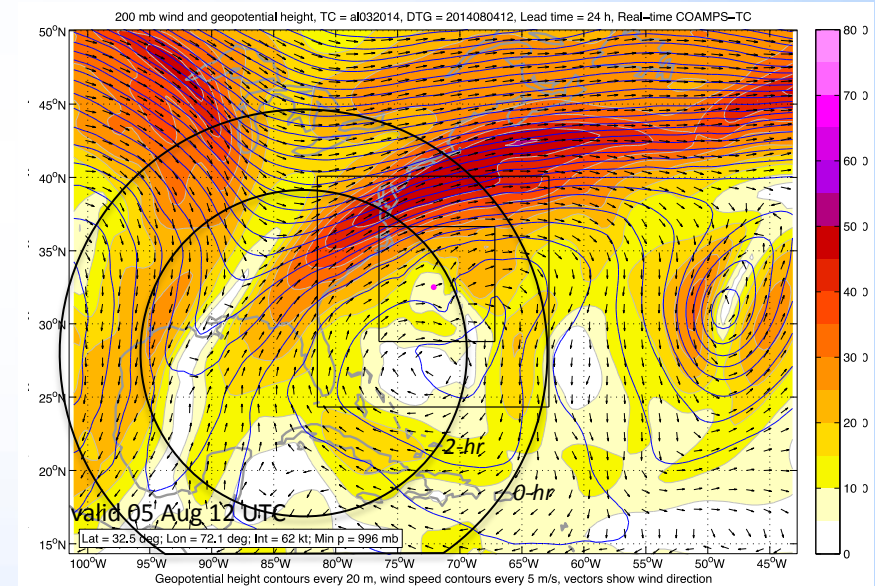
Aircraft Flight Operations

Day +1: Tuesday 04 Aug

COAMPS-TC: 150 hPa GPH & Winds



COAMPS-TC: 200 hPa GPH & Winds

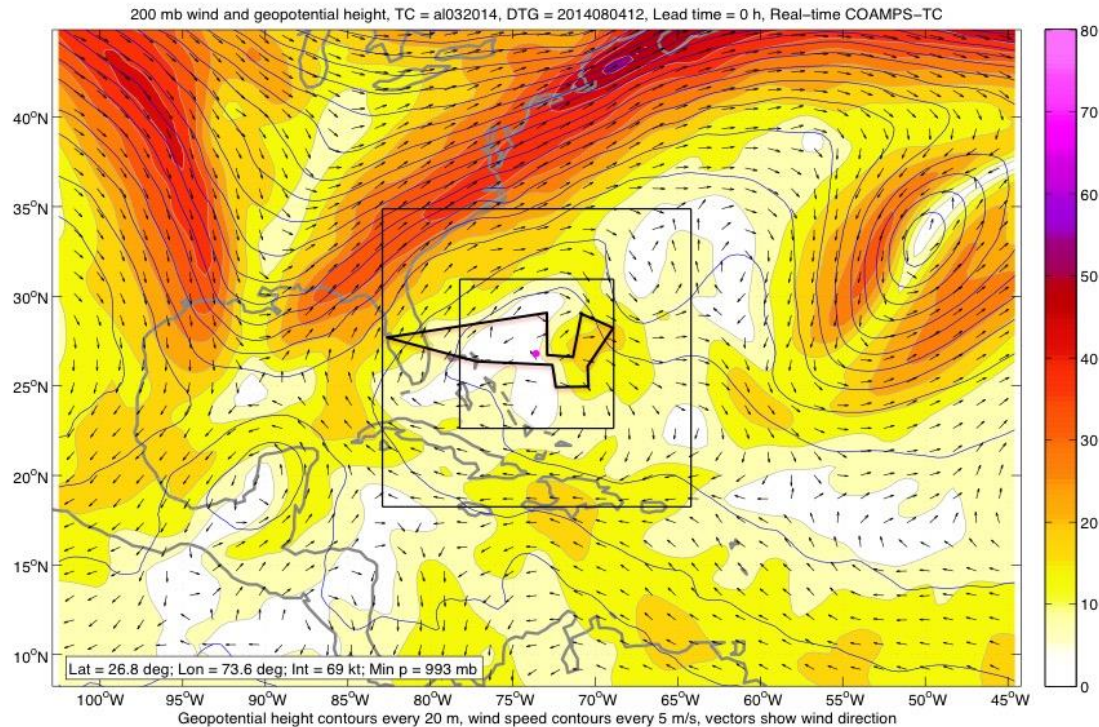


2015 ONR TCI

Aircraft Flight Operations

Day +1: Tuesday 04 Aug

CIMSS Water Vapor AMVs ; COAMPS-TC: 150 & 200 hPa GPH & Winds



MacDill-MacDill: 5 h 15 min

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Daily Activities

TCI Flight Ops: Bertha (Day +1)

- 7:30 or 8:00 AM EDT: TCI flight planning call
 - discuss target: Hurricane Bertha & IFEX/SHOUT coordination
 - discuss ongoing MacDill deployment & possible Wallops recovery >> 05 Aug
 - upload WB-57 flight pattern (MTS Plan 1 & pilots) >> Wed 05 Aug
 - submit POD to CARCAH
- 10:00 AM EDT: coordination call with NOAA IFEX & SHOUT
 - highlight interest in Hurricane Bertha
 - discuss IFEX & SHOUT interests & targets
 - Call Ellington >> alert for 05 Aug mission & confirm WB-57 recovery at Wallops on 05 Aug
- 12:00 PM EDT: NOAA HRD weather discussion (~20 min)
 - highlight Hurricane Bertha missions
- 3:00 PM EDT: TCI special weather briefing
 - emphasis on Hurricane Bertha

Wed 29 July <i>Day -5</i>	Thur 30 July <i>Day -4</i>	Fri 31 July <i>Day -3</i>	Sat 01 Aug <i>Day -2</i>	Sun 02 Aug <i>Day -1</i>	Mon 03 Aug <i>Day 0</i>	Tue 04 Aug <i>Day +1</i>	Wed 05 Aug <i>Day +2</i>
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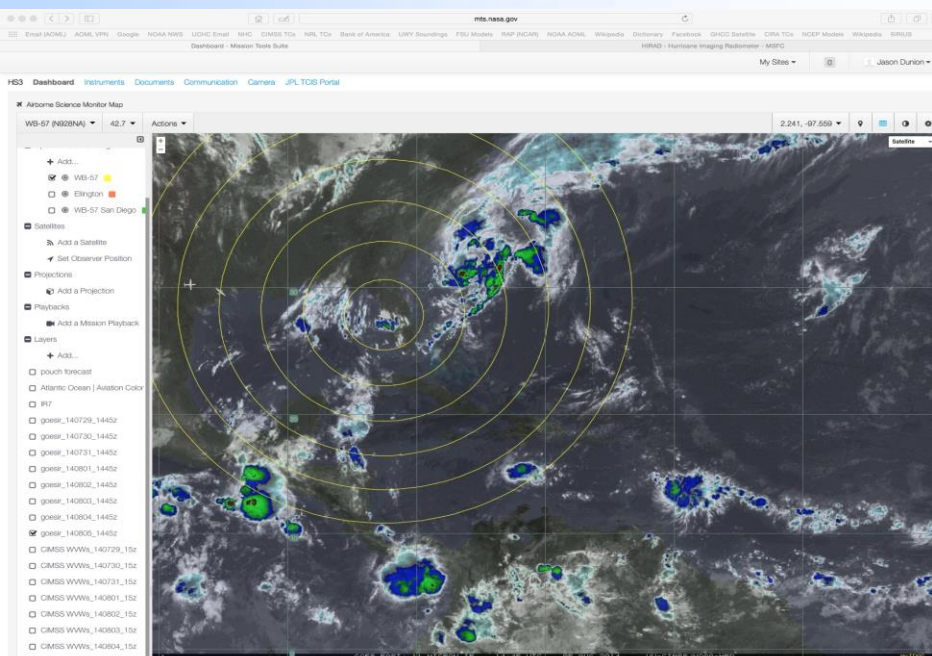
Day +2: Wednesday 05 Aug

2015 ONR TCI

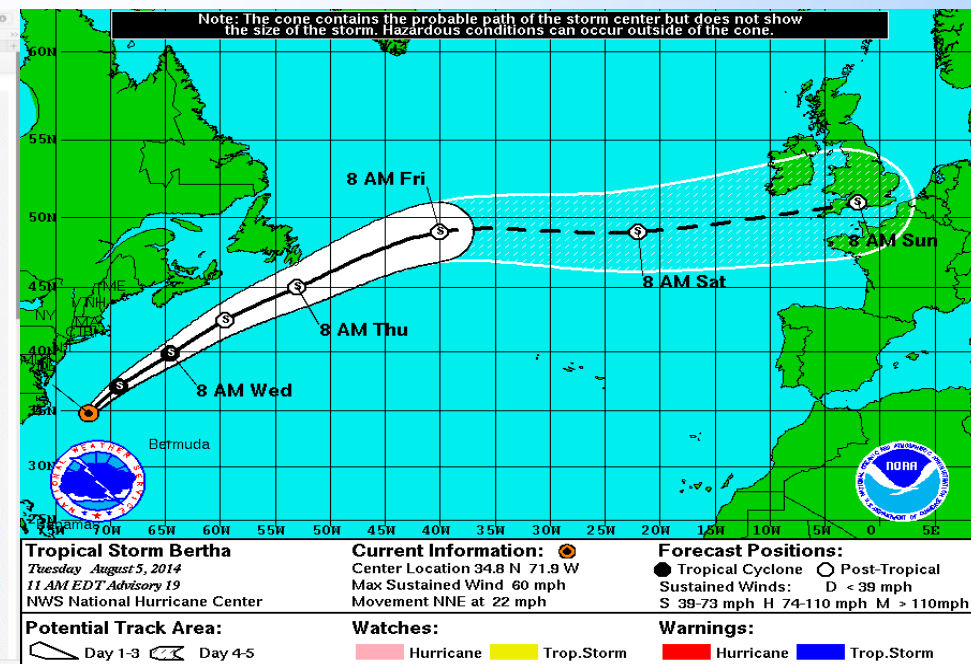
Aircraft Flight Operations

Day +2: Wednesday 05 Aug

GOES Enhanced IR



NHC 5-Day Cone/Warnings

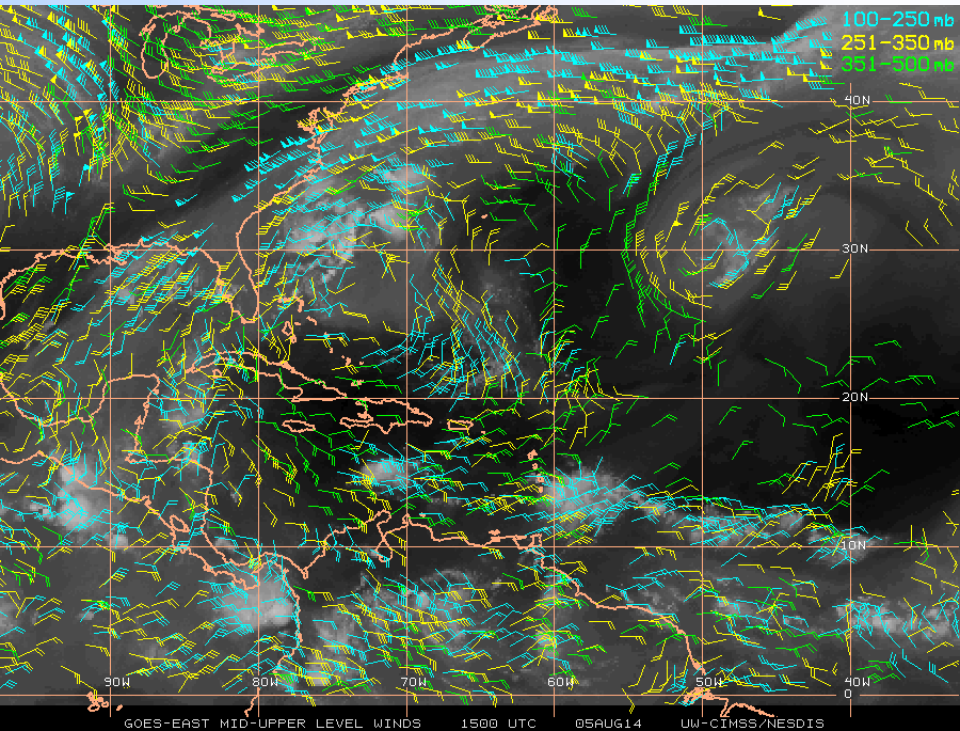


2015 ONR TCI

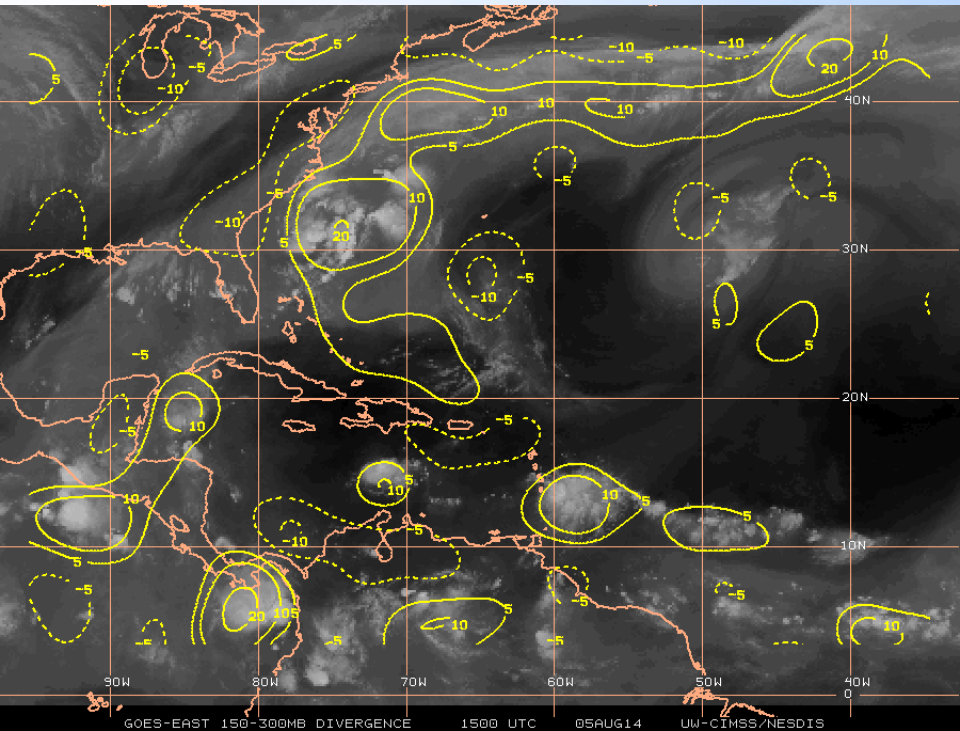
Aircraft Flight Operations

Day +2: Wednesday 05 Aug

CIMSS Water Vapor AMVs



CIMSS 150-300 hPa Divergence

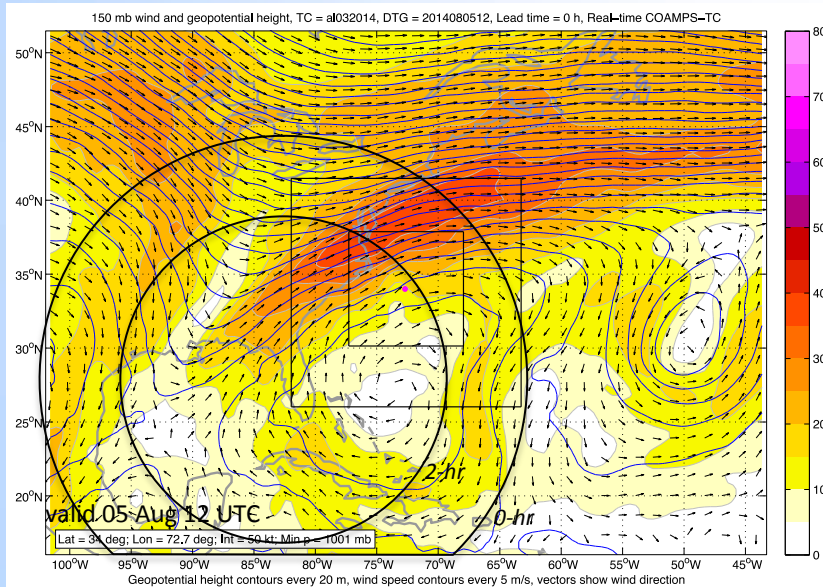


2015 ONR TCI

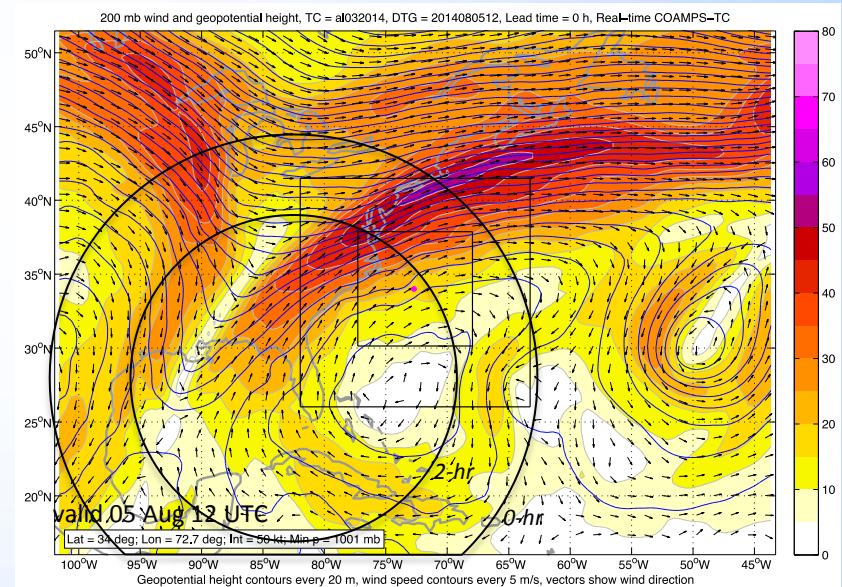
Aircraft Flight Operations

Day +2: Tuesday 05 Aug

COAMPS-TC: 150 hPa GPH & Winds



COAMPS-TC: 200 hPa GPH & Winds

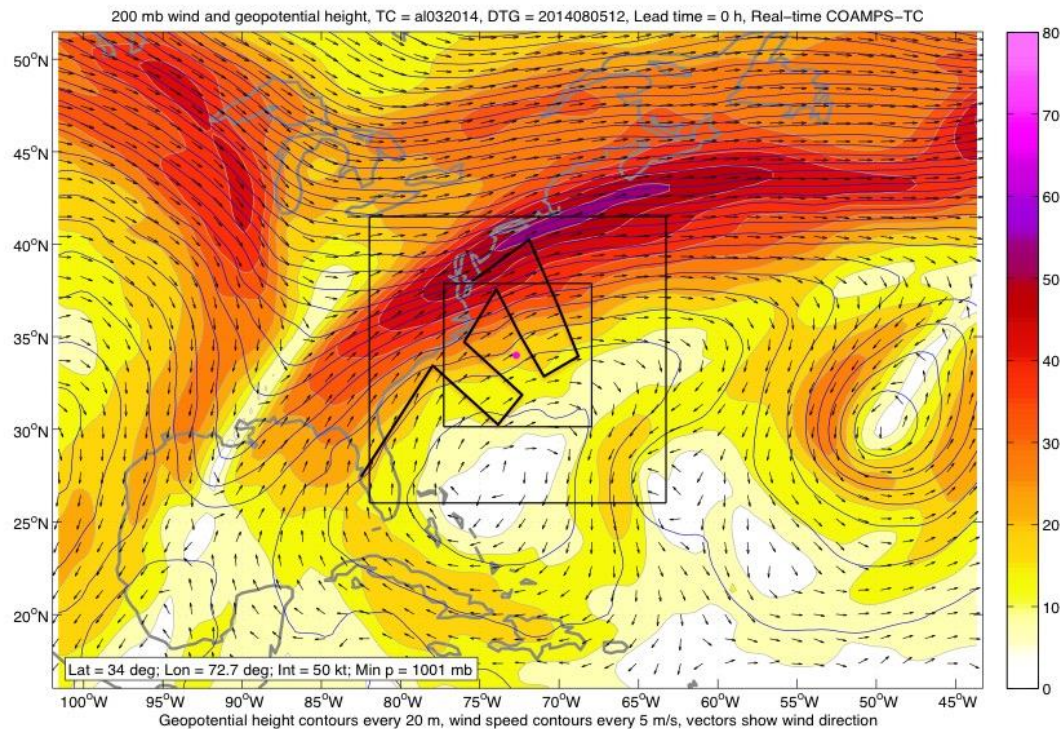


2015 ONR TCI

Aircraft Flight Operations

Day +2: Tuesday 05 Aug

CIMSS Water Vapor AMVs ; COAMPS-TC: 150 & 200 hPa GPH & Winds



MacDill-MacDill: 8 h 19 min

MacDill-Wallops: 6 h 01 min

Wed 29 July Day -5	Thur 30 July Day -4	Fri 31 July Day -3	Sat 01 Aug Day -2	Sun 02 Aug Day -1	Mon 03 Aug Day 0	Tue 04 Aug Day +1	Wed 05 Aug Day +2
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TCI Flight Ops: Bertha (Day +2)

Daily Activities

- 7:30 or 8:00 AM EDT: TCI flight planning call
 - discuss target: TS Bertha & IFEX/SHOUT coordination
 - discuss ongoing mission
 - discuss re-positioning WB-57 back to Ellington
 - submit POD to CARCAH
 - discuss possible dates/times for a Bertha debrief next week
- 10:00 AM EDT: coordination call with NOAA IFEX & SHOUT
 - highlight last mission TS Bertha
 - discuss IFEX & SHOUT interests & targets
- 12:00 PM EDT: NOAA HRD weather discussion (~20 min)
 - highlight TS Bertha mission & outlook
- 3:00 PM EDT: TCI special weather briefing (**CANCELED**)