

Retrospective Test Cases for 2013 HFIP Stream 1.5 Candidates

Retrospective cases are all tropical and subtropical cyclones during the period August 1 - October 31 for each of the three preceding years (i.e., 2010, 2011 and 2012). Retrospective cases falling outside the specified time period will only be included in the Stream 1.5 evaluation if the delivered sample includes retrospective forecasts for all storms from the three specified hurricane seasons. The number of runs per day and basins for the retrospective cases should correspond to set up planned for the Demo.

Modeling groups should consider the following factors, beyond the general guidance already provided, when determining which cases to run:

- Only cases where the cyclone is classified in the NHC B-decks as tropical or subtropical at the initial time will be verified. Hence, forecasts for each cyclone should start at the time when the cyclone is first classified in the NHC B-decks as either tropical or subtropical.
- Model runs are not required for cases where the cyclone dissipates (no longer classified by NHC as tropical or subtropical) less than 24 h after the initialization time.

All late model output will be converted to early model guidance prior to evaluation. Groups whose model falls in this category should also consider the following factors:

- If the model will be run four times per day, forecasts should be run to at least 126 h in order to produce 5-day early model guidance. For models only run twice per day, forecasts should be run to at least 132 h so early model guidance can be computed in a manner consistent with NHC handling of operational guidance that falls in this category.
- Interpolation software requires the following input:
 - 6 h interpolation
 - CARQ messages (available from NHC A-decks) at the initial time and 6 h forecast
 - Best Track data (available from NHC B-decks) at the 6 h forecast
 - 12 h interpolation (used for models only run twice per day)
 - CARQ messages at the initial time and 12 h forecast
 - Best Track data at the 12 h forecast

Cases for which any portion of this input is not available will not be included in the evaluation because early model versions cannot be created.

Storm	ATCF ID	First DTG	Last DTG	# Cases
2010				
<i>Atlantic</i>				
Colin	04L	2010080212	2010080312	5
		2010080512	2010080706	8
Danielle	06L	2010082118	2010082918	33
Earl	07L	2010082506	2010090318	39
Fiona	08L	2010083012	2010090218	14
Gaston	09L	2010090106	2010090112	2
Hermine	10L	2010090518	2010090700	6
Igor	11L	2010090806	2010092012	50
Julia	12L	2010091206	2010091912	30
Karl	13L	2010091412	2010091706	12
Lisa	14L	2010092018	2010092512	20
Matthew	15L	2010092312	2010092506	8
Nicole	16L	2010092812	2010092812	1
Otto	17L	2010100606	2010100900	12
Paula	18L	2010101100	2010101406	14
Richard	19L	2010102006	2010102418	19
Shary	20L	2010102818	2010102912	4
Tomas	21L	2010102906	2010103118	11
<i>East Pacific</i>				
Estelle	07E	2010080600	2010080900	13
TD Eight-E	08E	2010082006	2010082012	2
Frank	09E	2010082118	2010082712	24
TD Ten-E	10E	2010090300	2010090306	2
Georgette	12E	2010092012	2010092200	7
2011				
<i>Atlantic</i>				
Emily	05L	2011080200	2011080406	10
Gert	07L	2011081318	2011081506	7
Harvey	08L	2011081900	2011082112	11
Irene	09L	2011082100	2011082718	28
TD Ten	10L	2011082500	2011082518	4
Jose	11L	2011082706	2011082718	3
Katia	12L	2011082906	2011090906	45
Lee	13L	2011090200	2011090400	9
Maria	14L	2011090618	2011090906	11
		2011091012	2011091518	22
Nate	15L	2011090718	2011091018	13
Ophelia	16L	2011092018	2011092506	19
		2011092712	2011100206	20
Philippe	17L	2011092406	2011100712	54
Rina	18L	2011102318	2011102712	16
Unnamed	20L	2011090118	2011090118	1
<i>East Pacific</i>				
Eugene	05E	2011080100	2011080506	18
Fernanda	06E	2011081518	2011081818	13

Storm	ATCF ID	First DTG	Last DTG	# Cases
Greg	07E	2011081618	2011082006	15
Hilary	09E	2011092106	2011092906	33
Jova	10E	2011100600	2011101118	24
Irwin	11E	2011100606	2011101512	38
2012				
<i>Atlantic</i>				
Ernesto	05L	2012080112	2012080906	32
Florence	06L	2012080318	2012080506	7
Helene	07L	2012080918	2012081006	3
		2012081712	2012081718	2
Gordon	08L	2012081512	2012081912	17
Isaac	09L	2012082106	2012082918	35
Joyce	10L	2012082206	2012082306	5
Kirk	11L	2012082818	2012090118	17
Leslie	12L	2012083000	2012091006	46
Michael	13L	2012090306	2012091012	30
Nadine	14L	2012091012	2012092012	41
		2012092306	2012100218	39
Oscar	15L	2012100306	2012100412	6
Patty	16L	2012101100	2012101206	6
Rafael	17L	2012101218	2012101612	16
Sandy	18L	2012102212	2012102818	26
Tony	19L	2012102218	2012102412	8
<i>East Pacific</i>				
Gilma	07E	2012080706	2012081006	13
Hector	08E	2012081112	2012081518	18
Ileana	09E	2012082712	2012090106	20
John	10E	2012090212	2012090306	4
Kristy	11E	2012091206	2012091600	16
Lane	12E	2012091512	2012091800	11
Miriam	13E	2012092200	2012092612	19
Norman	14E	2012092806	2012092806	1
Olivia	15E	2012100612	2012100718	6
Paul	16E	2012101312	2012101600	11
Rosa	17E	2012103006	2012103118	7

Total of 897 Atlantic and 315 Eastern North Pacific Basin cases