Retrospective Test Cases for 2014 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., 2011, 2012 and 2013). 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 the12 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
2011				
Atlantic				
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
East Pacific				
Eugene	05E	2011080100	2011080506	18
Fernanda	06E	2011081518	2011081818	13
Greg	07E	2011081618	2011082006	15
Hilary	09E	2011092106	2011092906	33
Jova	10E	2011100600	2011101118	24
Irwin	11E	2011100606	2011101512	38
2012				
Atlantic				
Ernesto	05L	2012080112	2012080906	32
Florence	06L	2012080318	2012080506	7
Helene	07L	2012080918	2012081106	7
		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	2012092112	45
		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
East Pacific				
Gilma	07E	2012080706	2012081006	13
Hector	08E	2012081112	2012081518	18

Storm	ATCF ID	First DTG	Last DTG	# Cases
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
2013				
Atlantic				
Erin	05L	2013081500	2013081700	9
Fernand	06L	2013082512	2013082512	1
Gabrielle	07L	2013090418	2013090512	4
		2013091000	2013091212	11
Humberto	09L	2013090818	2013091318	21
		2013091500	2013091806	14
Ingrid	10L	2013091218	2013091600	14
Jerry	11L	2013092900	2013100212	15
Karen	12L	2013100306	2013100506	9
Lorenzo	13L	2013102106	2013102306	9
East Pacific				
Gil	07E	2013073012	2013080518	26
Henriette	08E	2013080312	2013081012	29
Ivo	09E	2013082212	2013082412	9
Juliette	10E	2013082812	2013082818	2
Kiko	11E	2013083100	2013090106	6
Lorena	12E	2013090506	2013090612	6
Manuel	13E	2013091312	2013091600	11
		2013091718	2013091818	5
Narda	14E	2013100618	2013100906	11
Octave	15E	2013101218	2013101412	8
Priscilla	16E	2013101400	2013101512	7
Raymond	17E	2013102000	2013102906	38

Total of 724 Atlantic and 425 Eastern North Pacific Basin cases