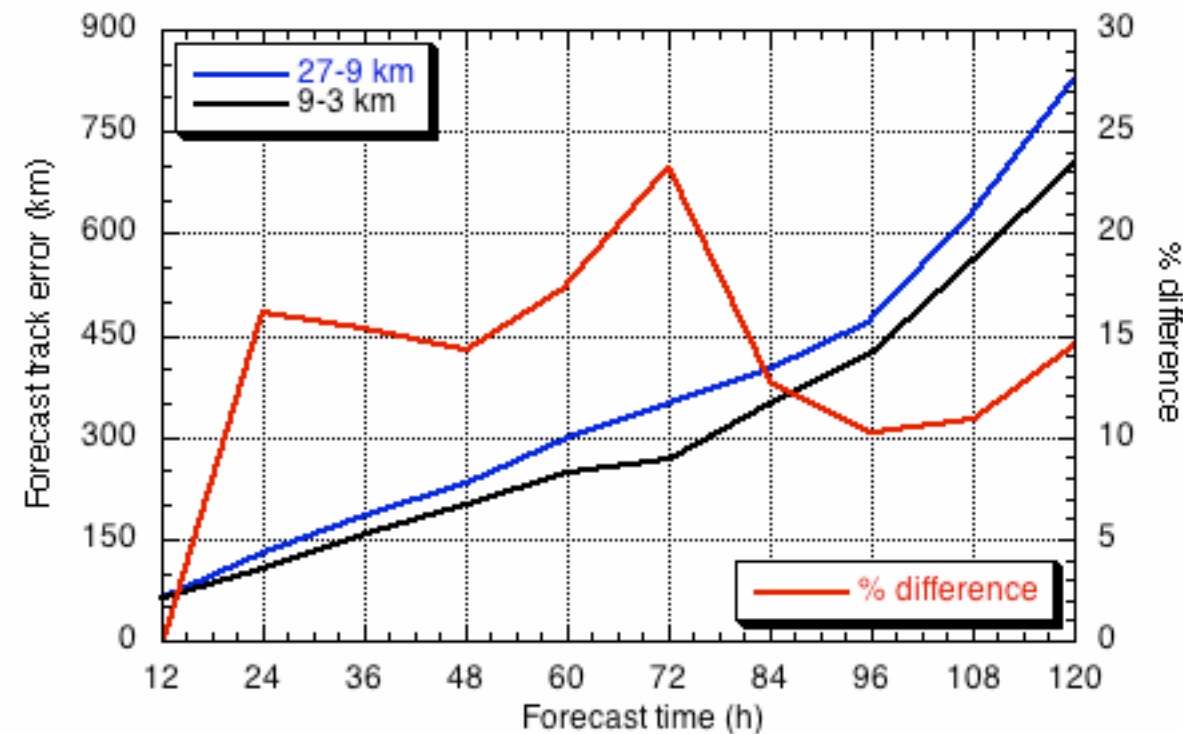
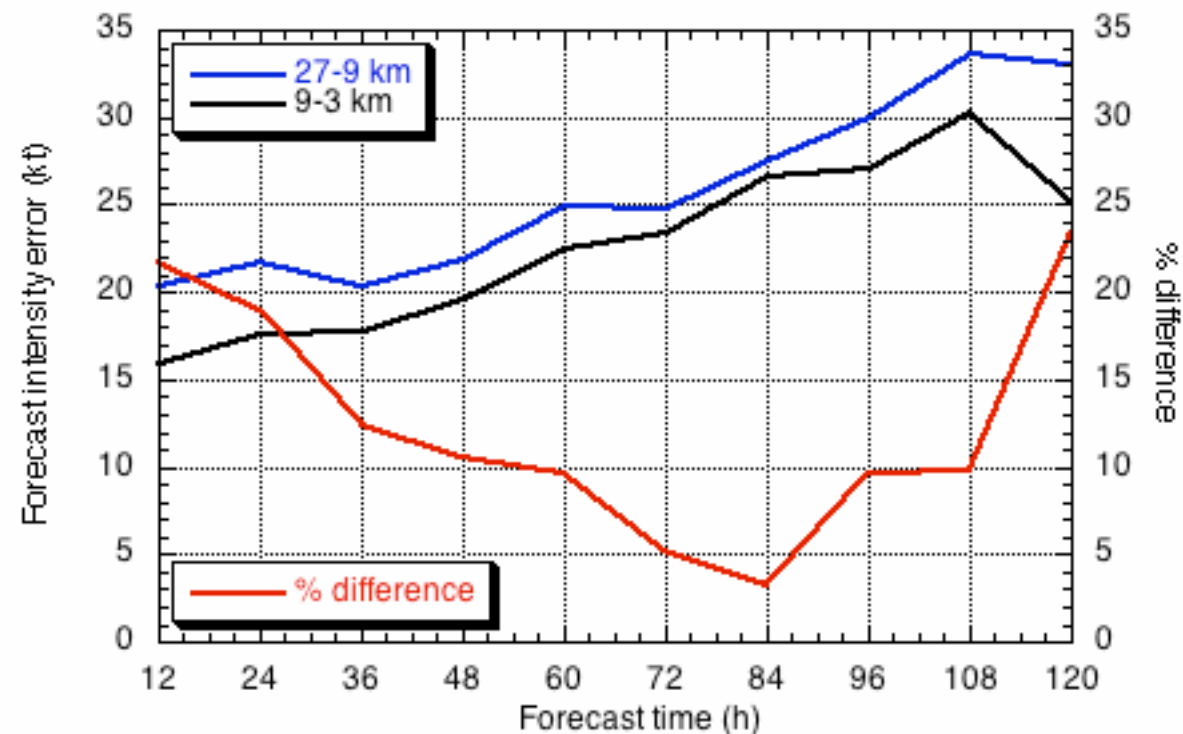


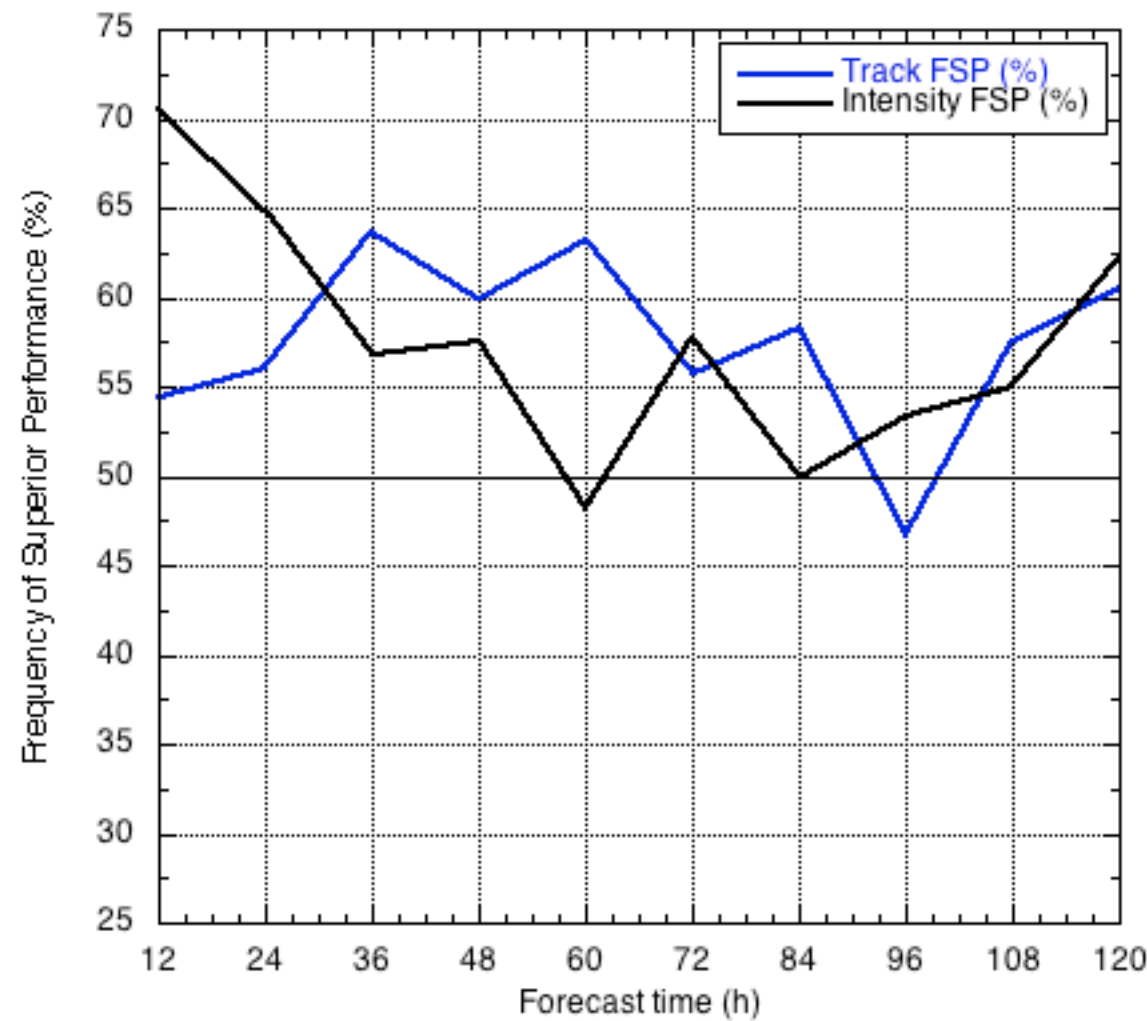
# Verification of HWRF-X forecasts from the HFIP High-Resolution Test



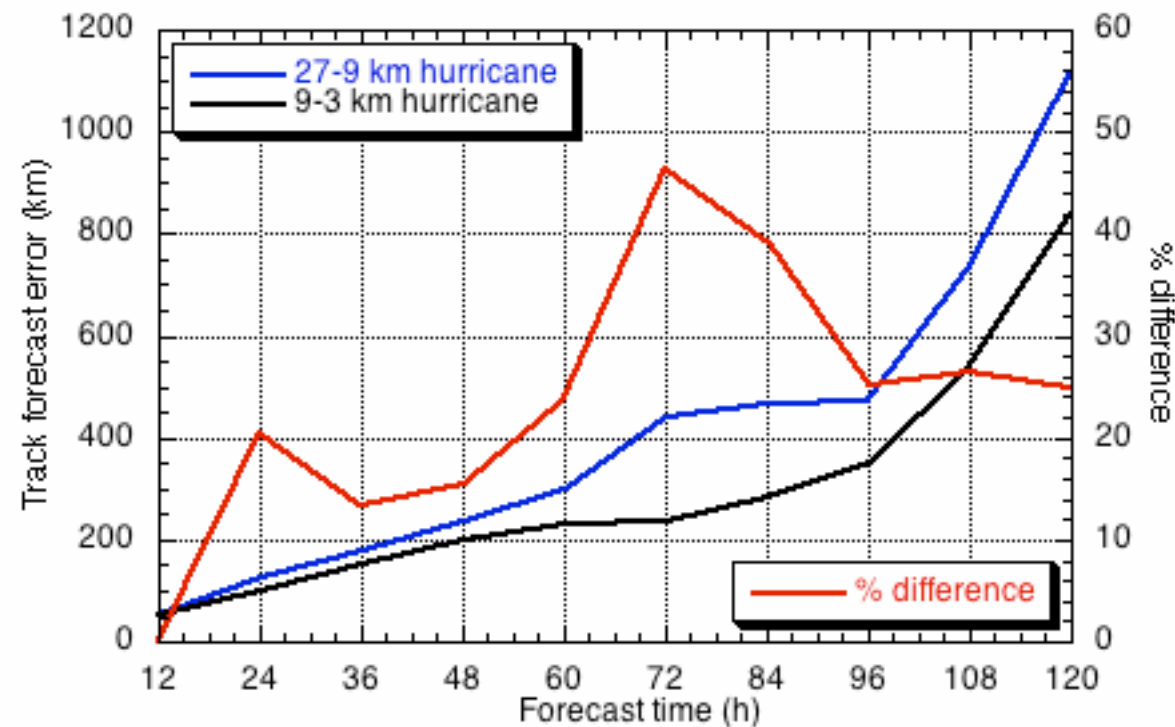
Track differences are statistically significant at 90% or above at all times except 12 and 96 h with serial correlation removed (62.5 to 32 cases).



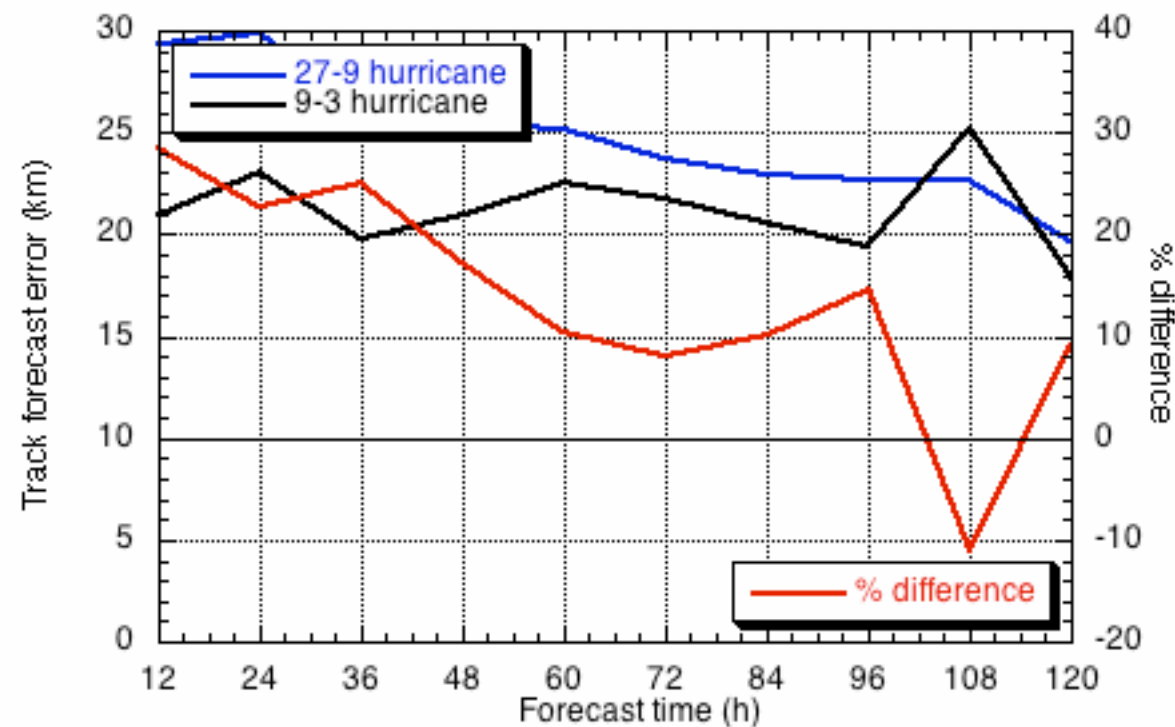
Intensity differences are statistically significant at 90% or above at all times except 12 - 36 h and 120 h with serial correlation removed (62.5 to 32 cases). The reason for the shape of the curve is unknown.



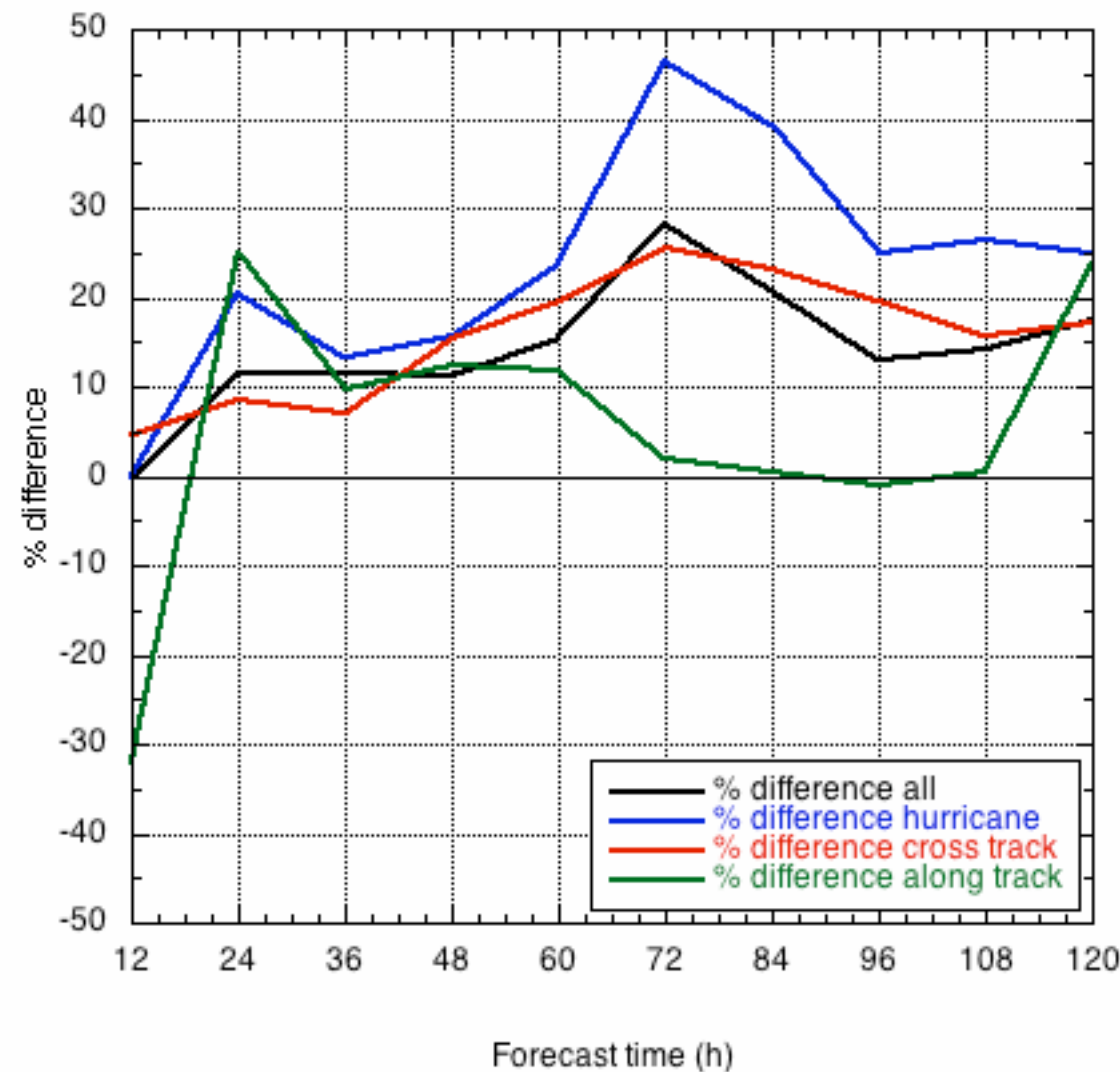
The majority of 9-3 km cases are better than 27-9 km cases for both track and intensity, though the impacts are not overwhelming.



Most of the track improvements are for the cases with initial intensity > 64 kt.

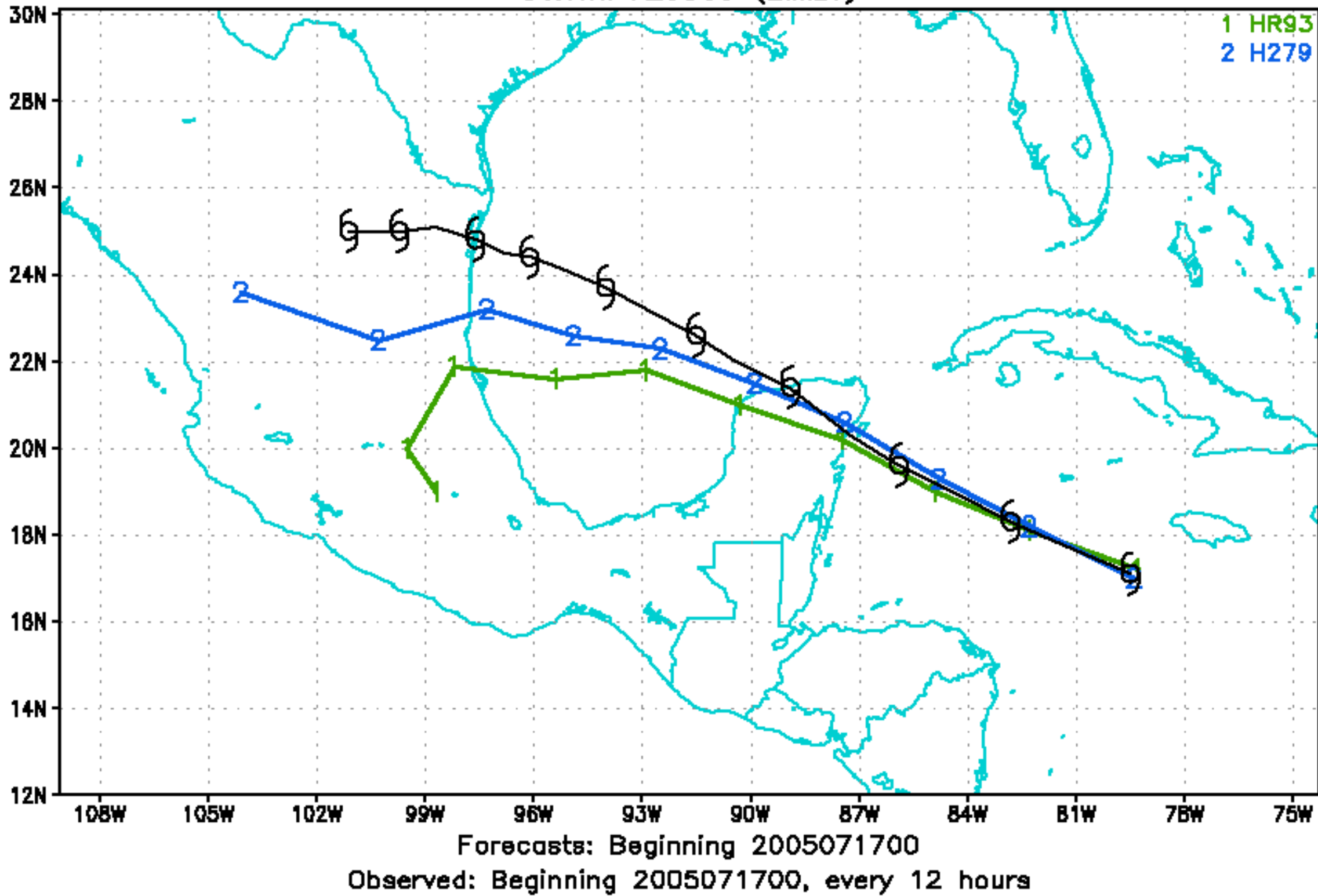


Most of the intensity improvements are also for the cases with initial intensity  $> 64$  kt except after 96 h.



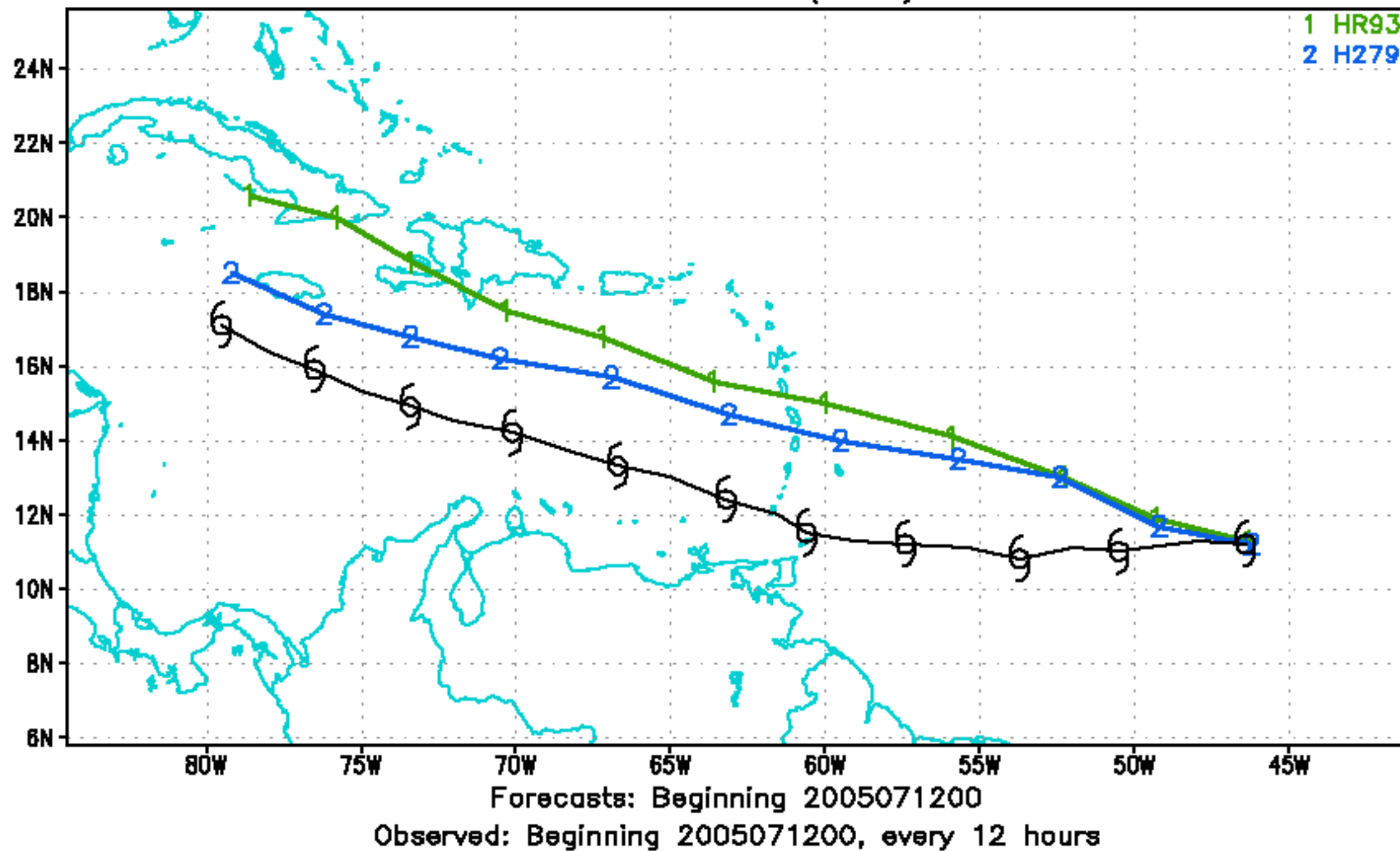
Most of the track improvements are in the cross-track direction. There is only small impact in the along-track errors.

2005 Tropical Cyclone Tracks  
Storm: AL0505 (EMILY)



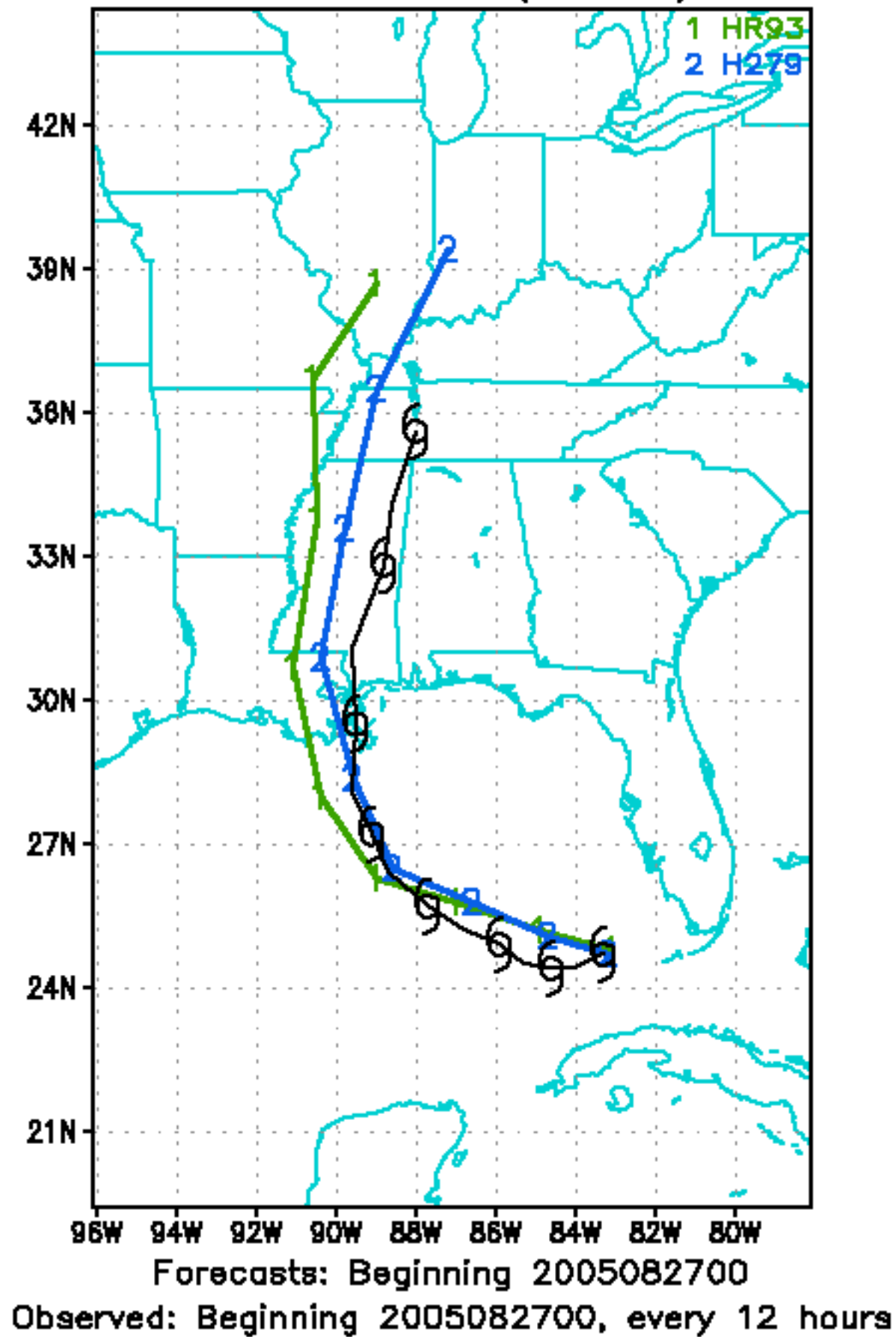
Cases in which 9-3 track is much worse than 27-9 track.

2005 Tropical Cyclone Tracks  
Storm: AL0505 (EMILY)



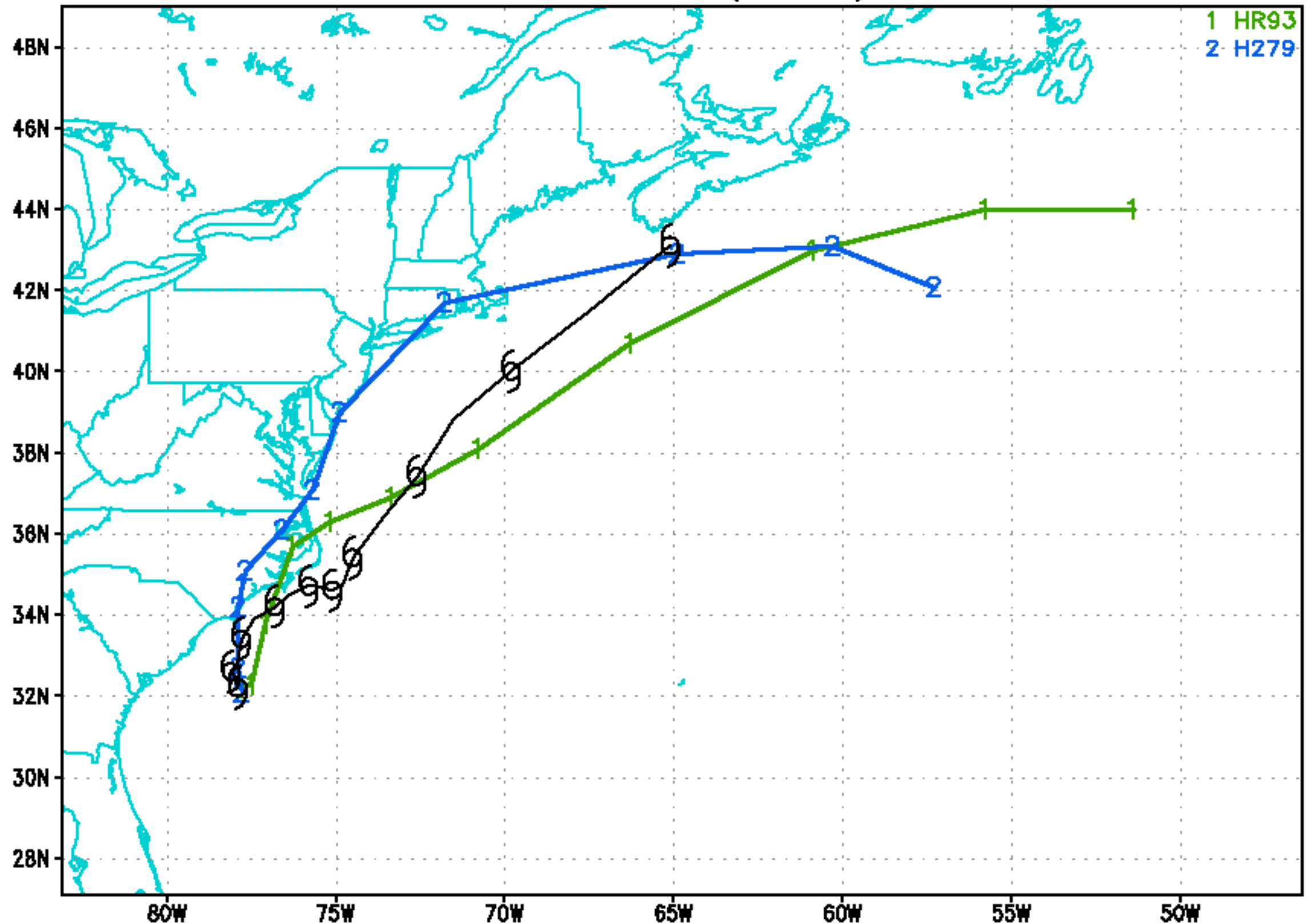


2005 Tropical Cyclone Tracks  
Storm: AL1205 (KATRINA)

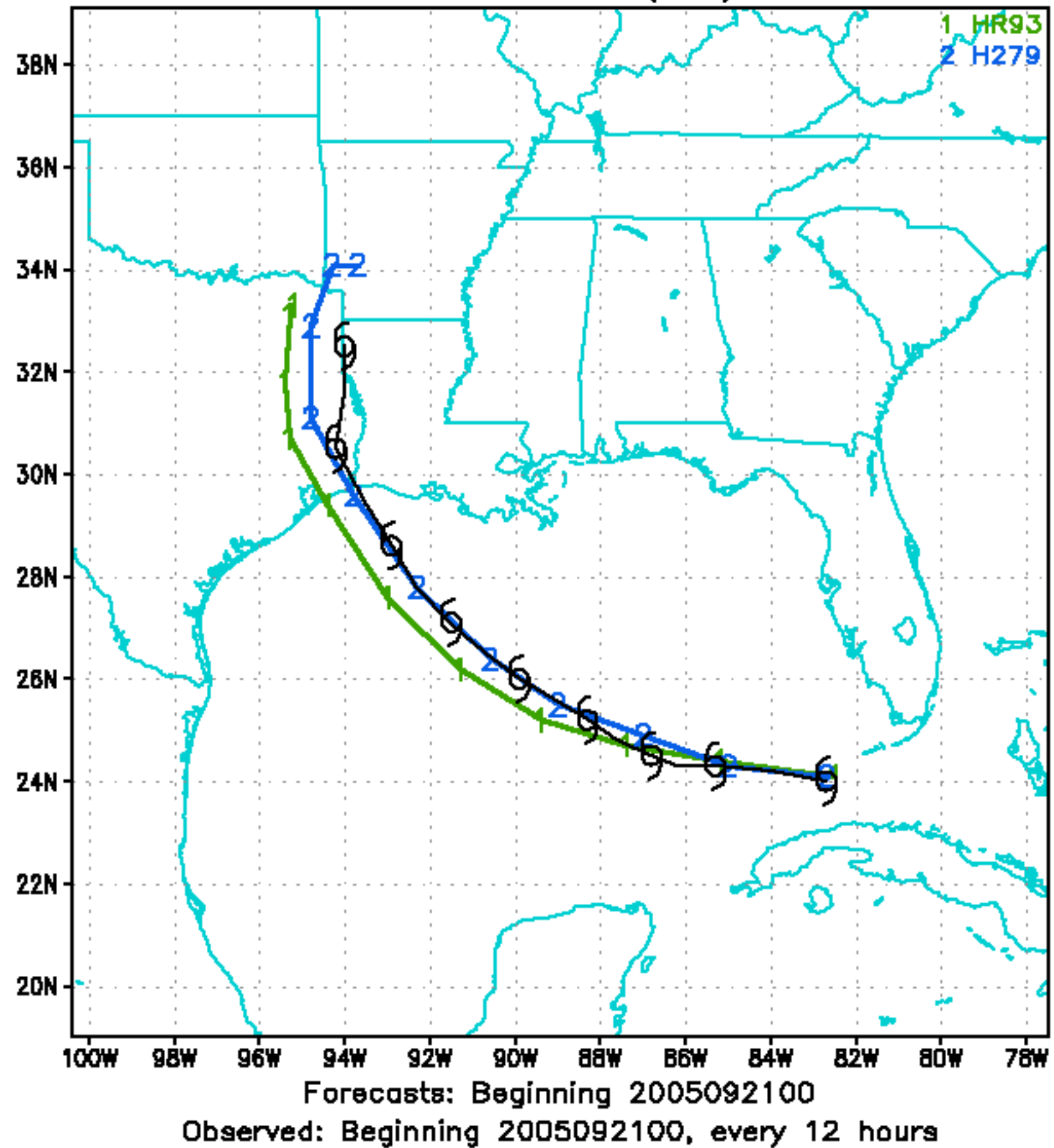


# 2005 Tropical Cyclone Tracks

Storm: AL1605 (OPHELIA)

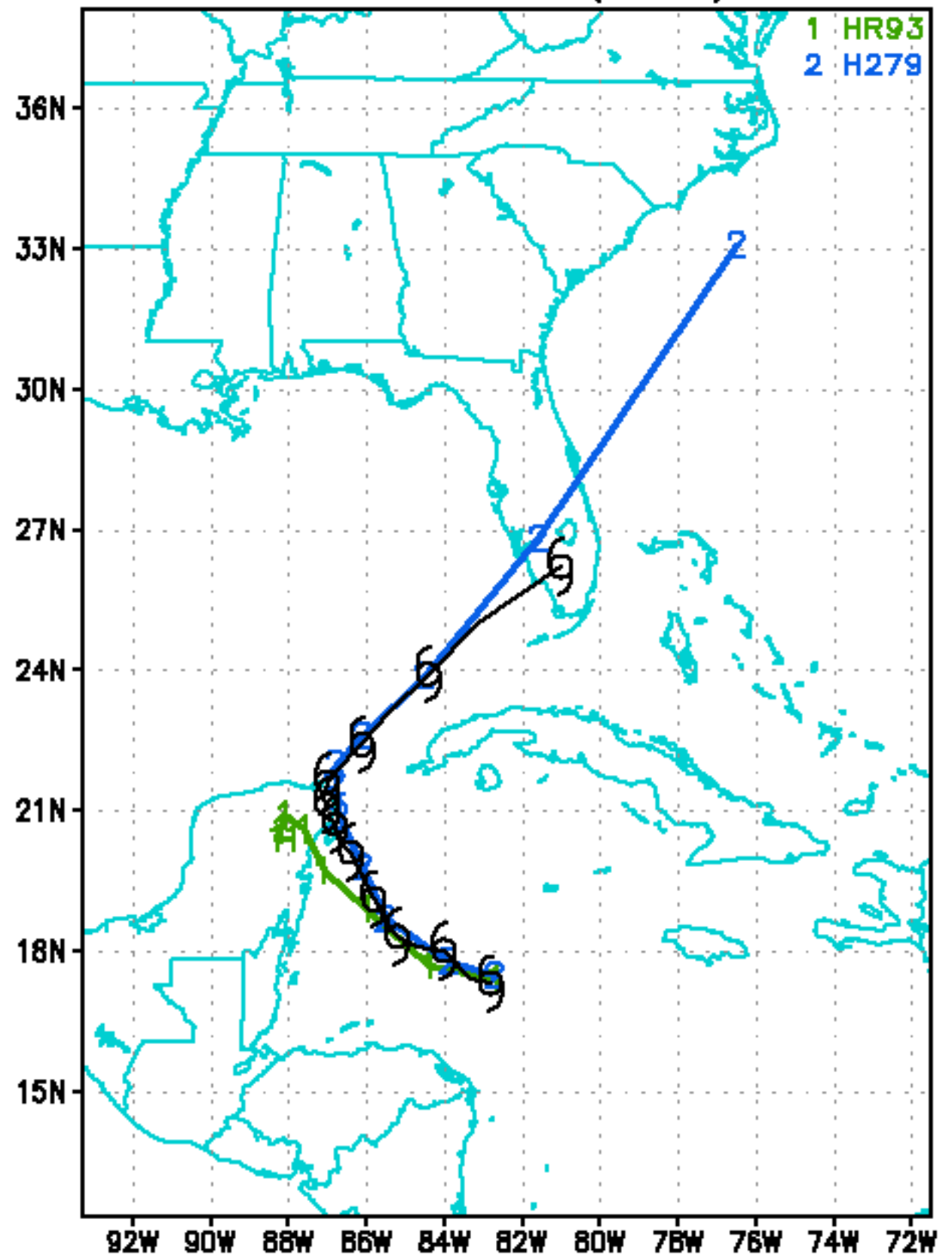


2005 Tropical Cyclone Tracks  
Storm: AL1805 (RITA)



# 2005 Tropical Cyclone Tracks

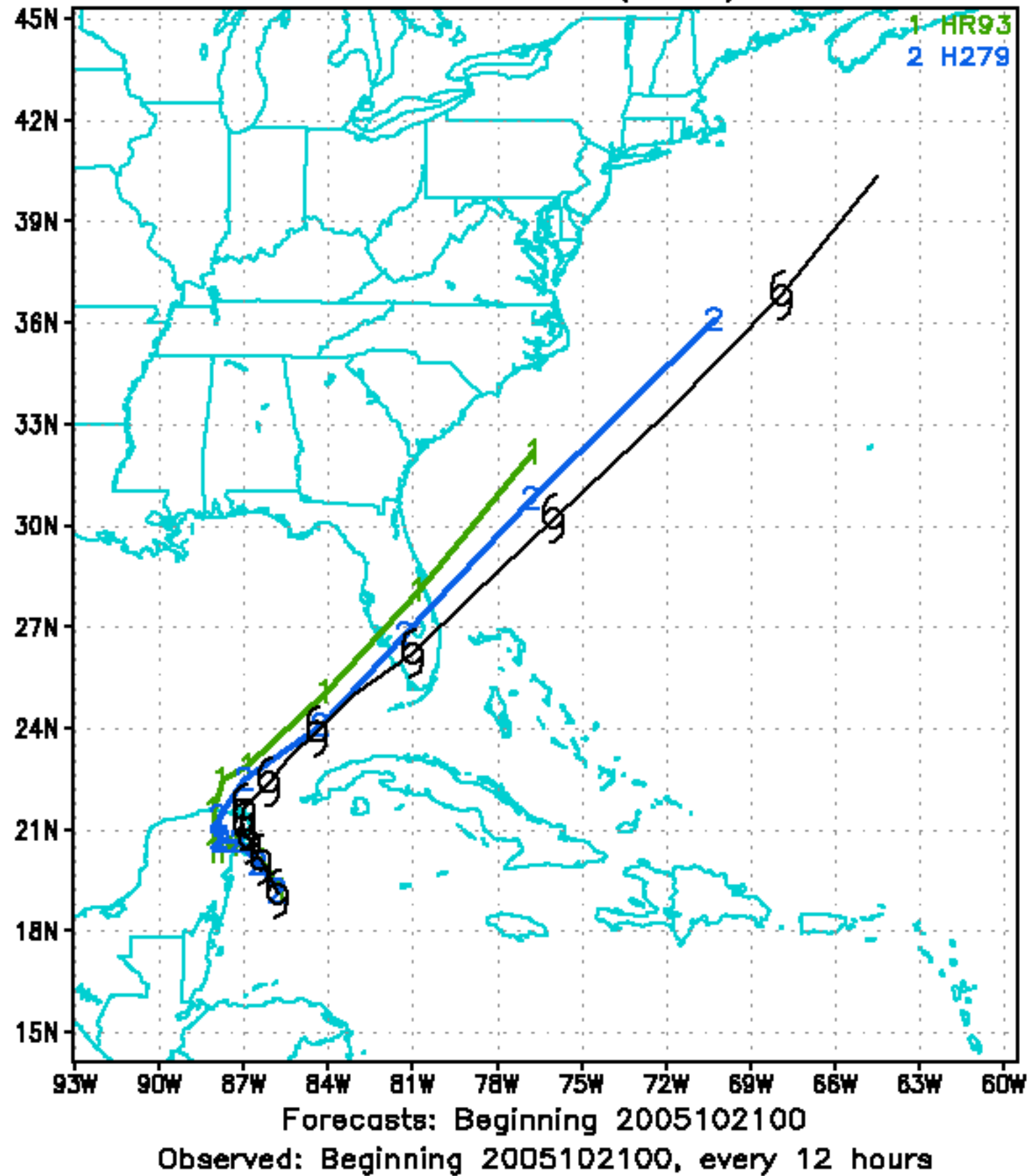
Storm: AL2505 (WILMA)



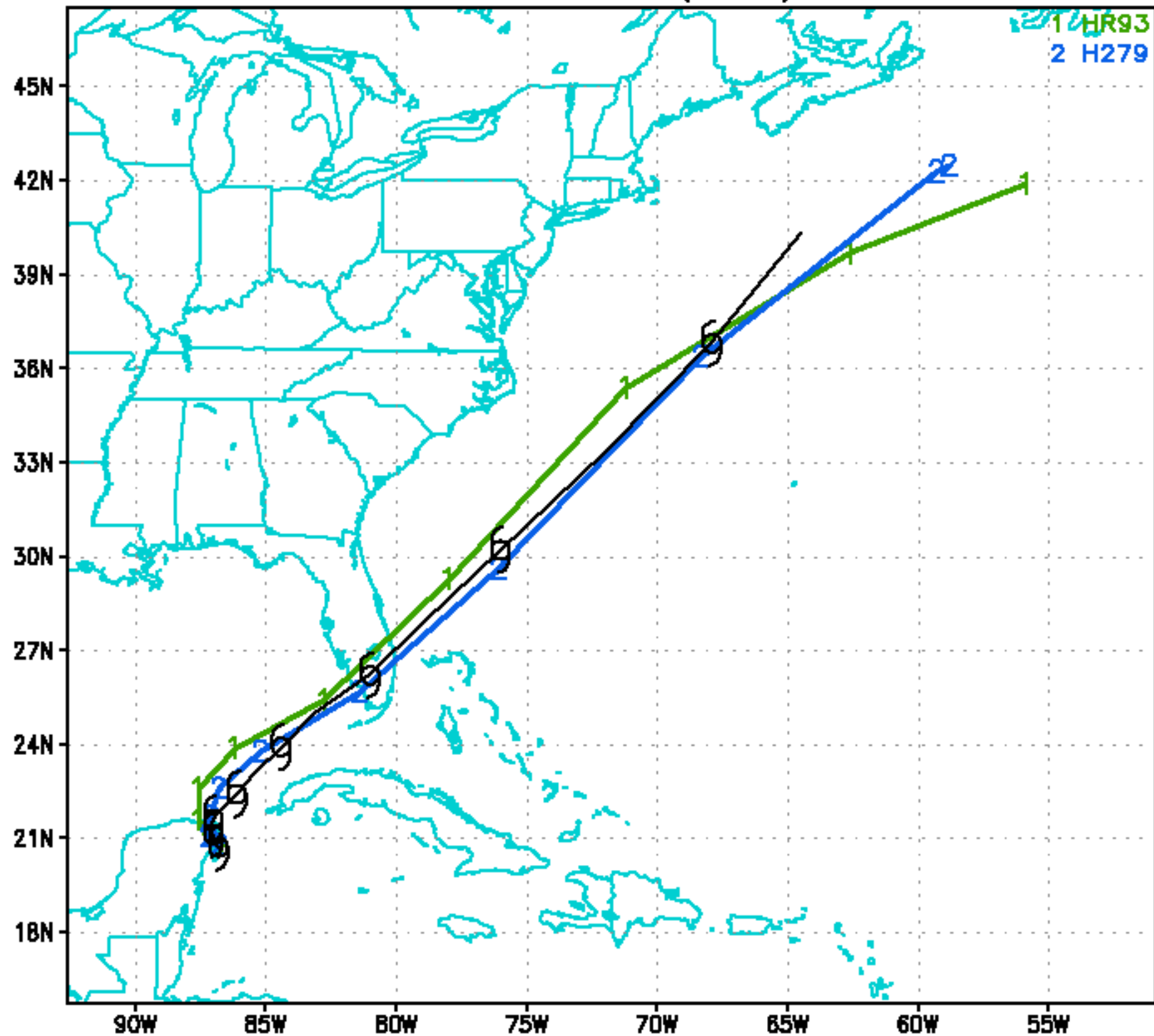
Forecasts: Beginning 2005101912

Observed: Beginning 2005101912, every 12 hours

2005 Tropical Cyclone Tracks  
Storm: AL2505 (WILMA)



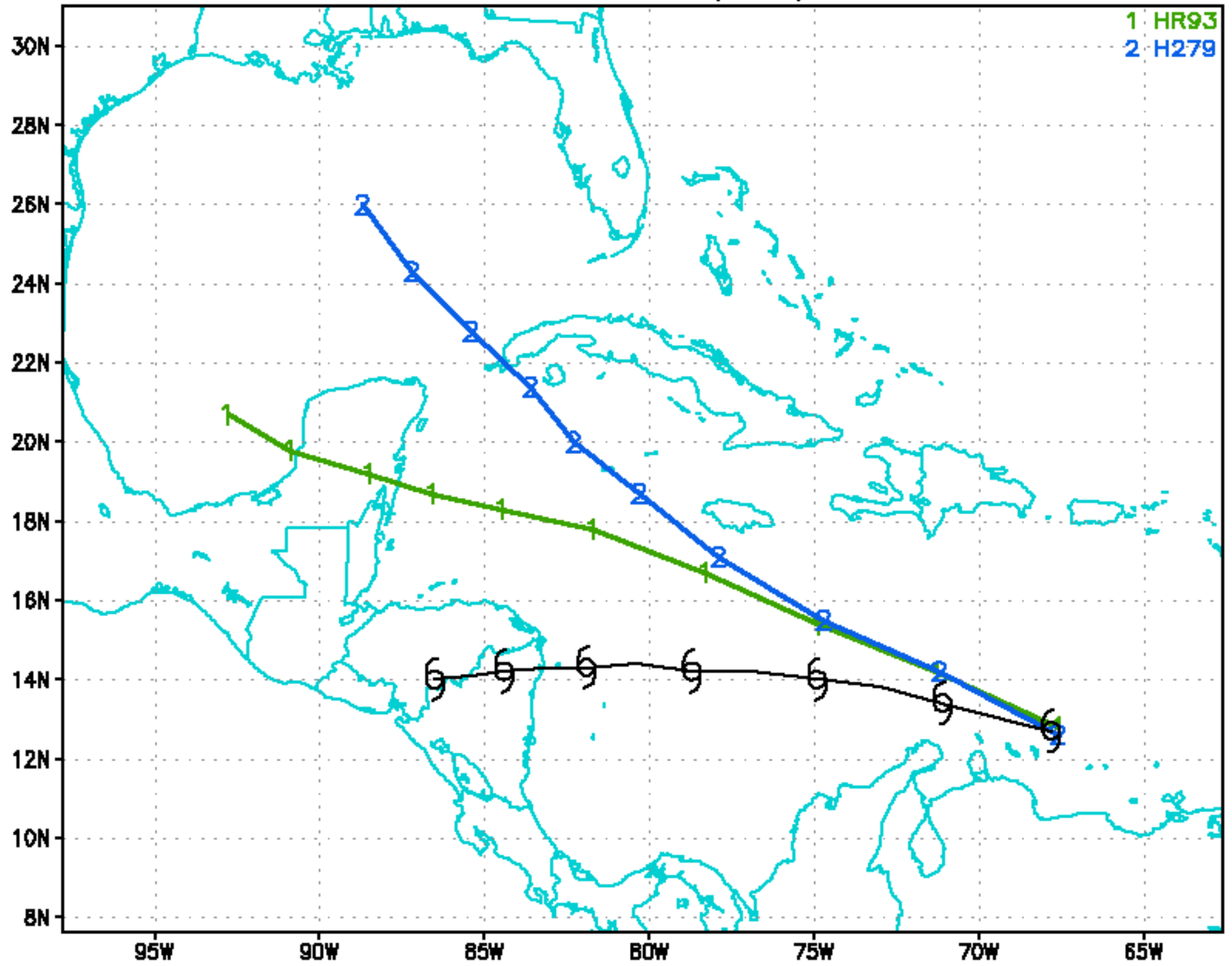
2005 Tropical Cyclone Tracks  
Storm: AL2505 (WILMA)



Forecasts: Beginning 2005102200

Observed: Beginning 2005102200, every 12 hours

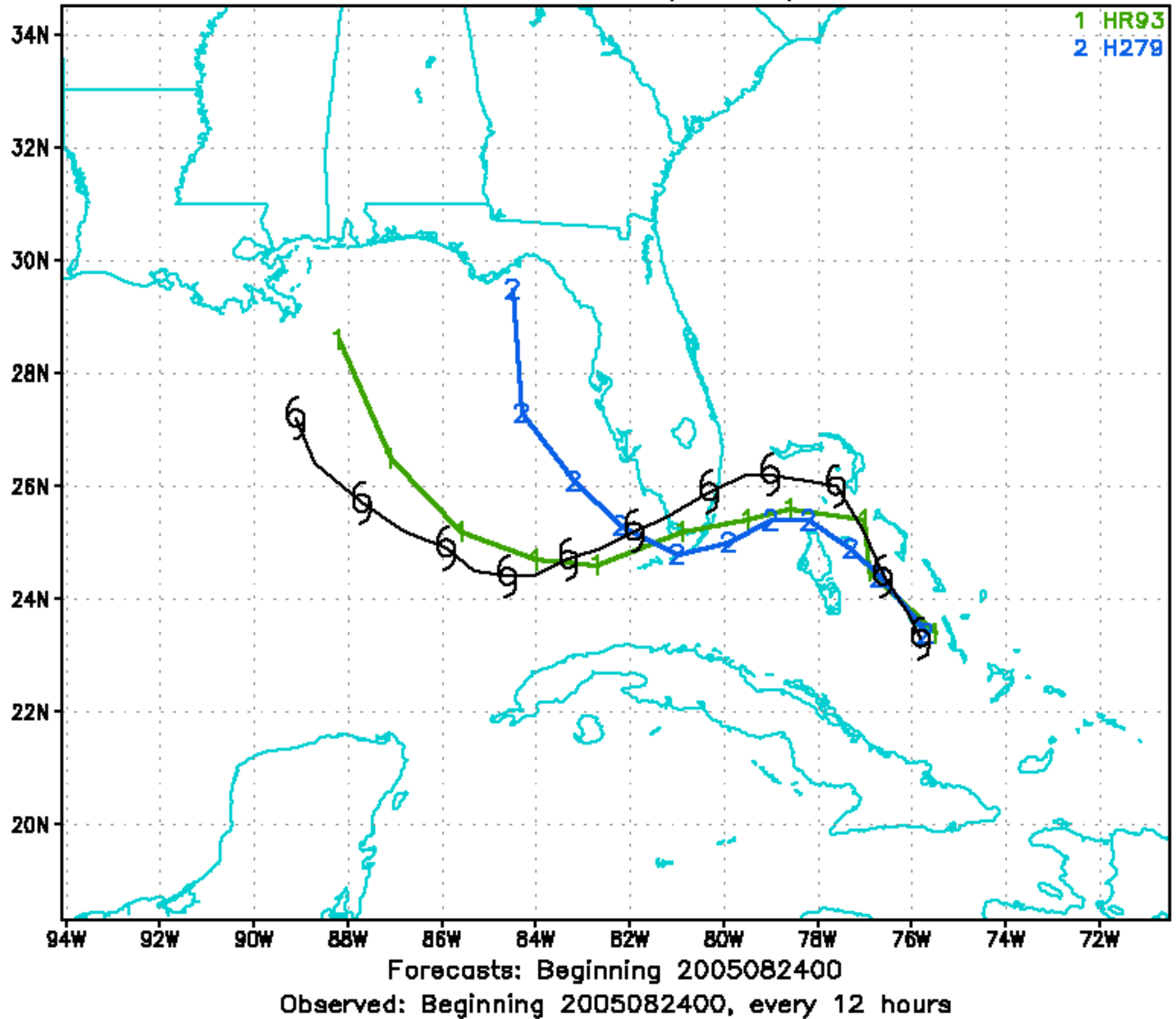
2007 Tropical Cyclone Tracks  
Storm: AL0607 (FELIX)



Cases in which 9-3 track is much better than 27-9 track.

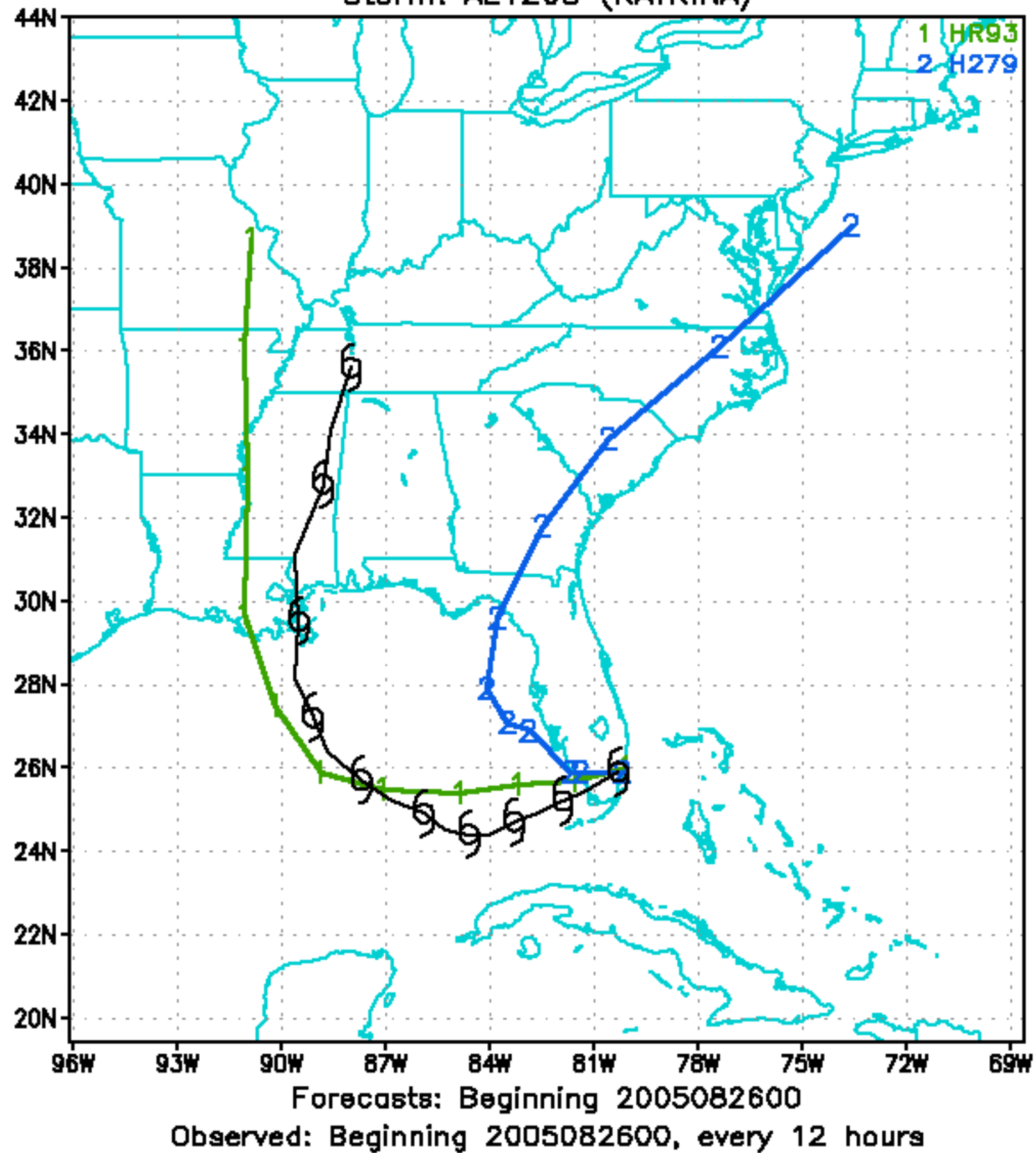


2005 Tropical Cyclone Tracks  
Storm: AL1205 (KATRINA)

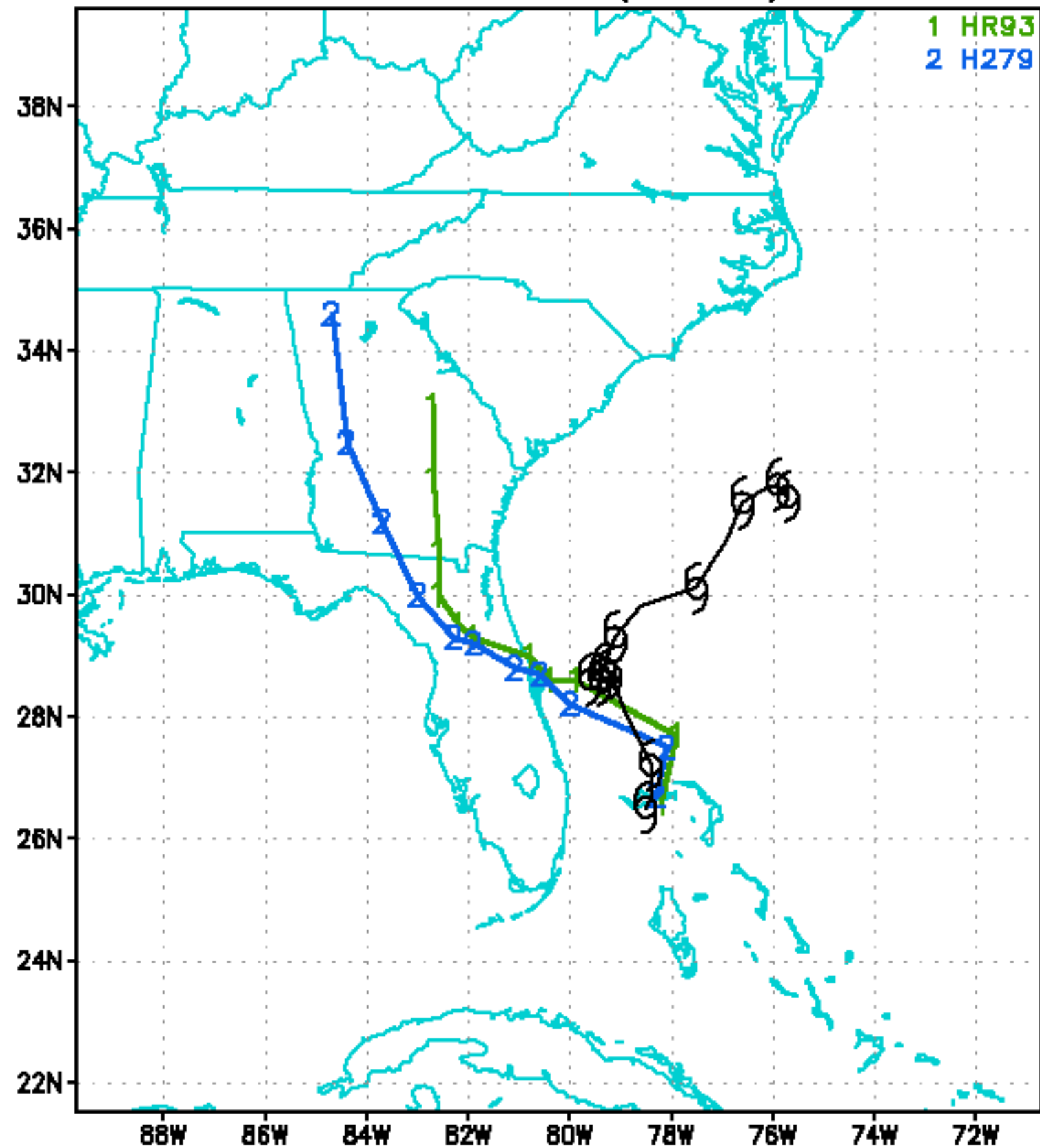




2005 Tropical Cyclone Tracks  
Storm: AL1205 (KATRINA)



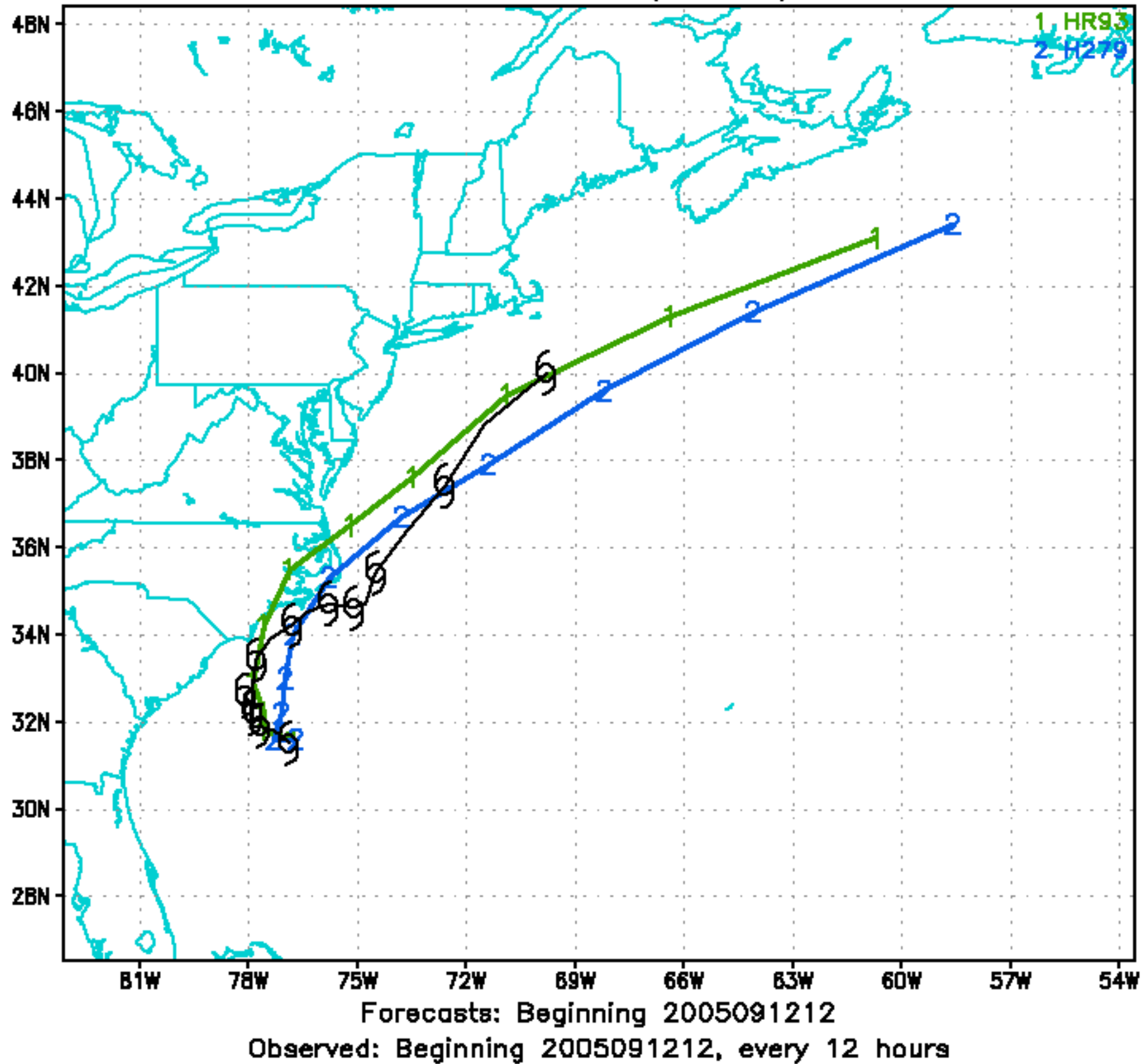
2005 Tropical Cyclone Tracks  
Storm: AL1605 (OPHELIA)



Forecasts: Beginning 2005090612

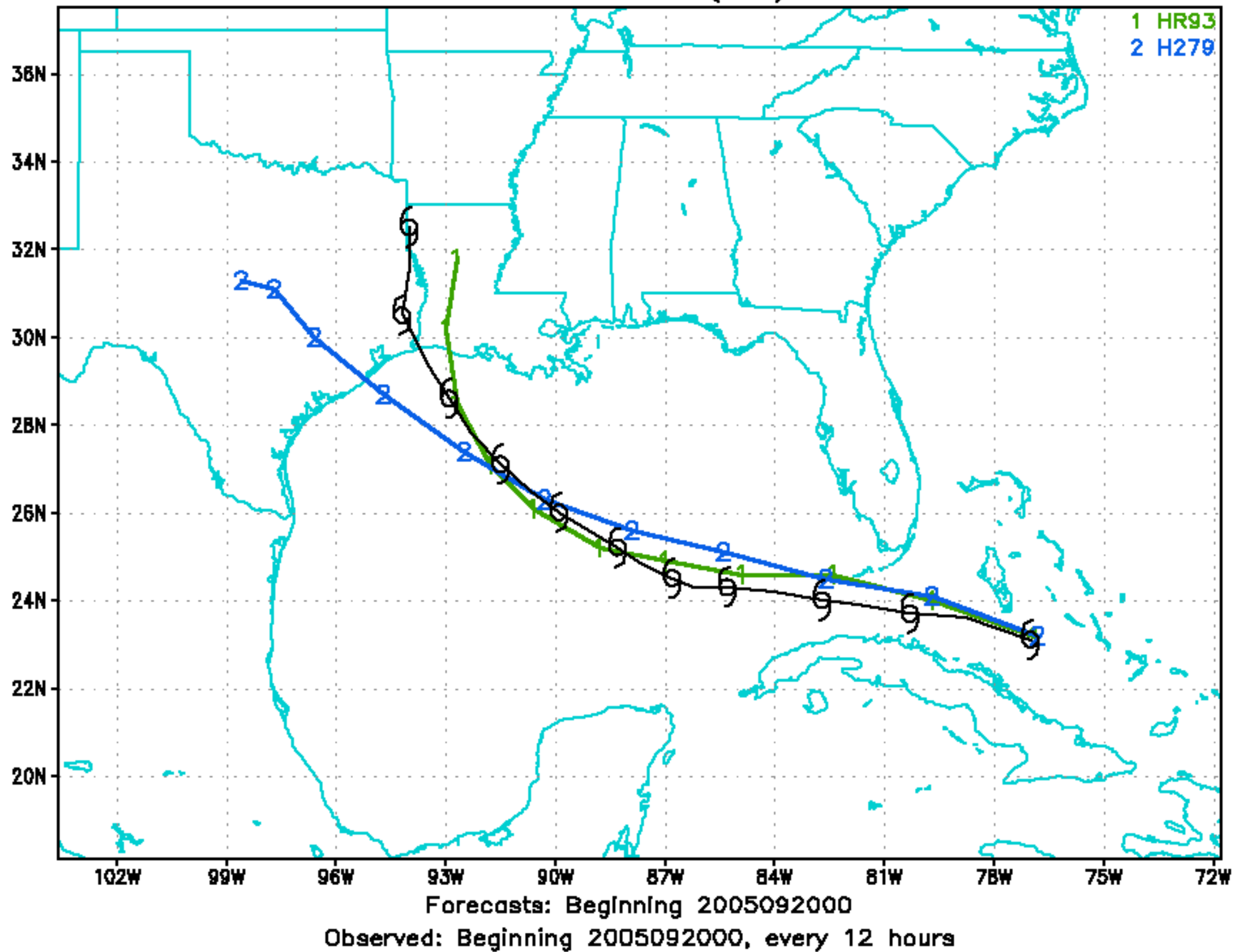
Observed: Beginning 2005090612, every 12 hours

2005 Tropical Cyclone Tracks  
Storm: AL1605 (OPHELIA)

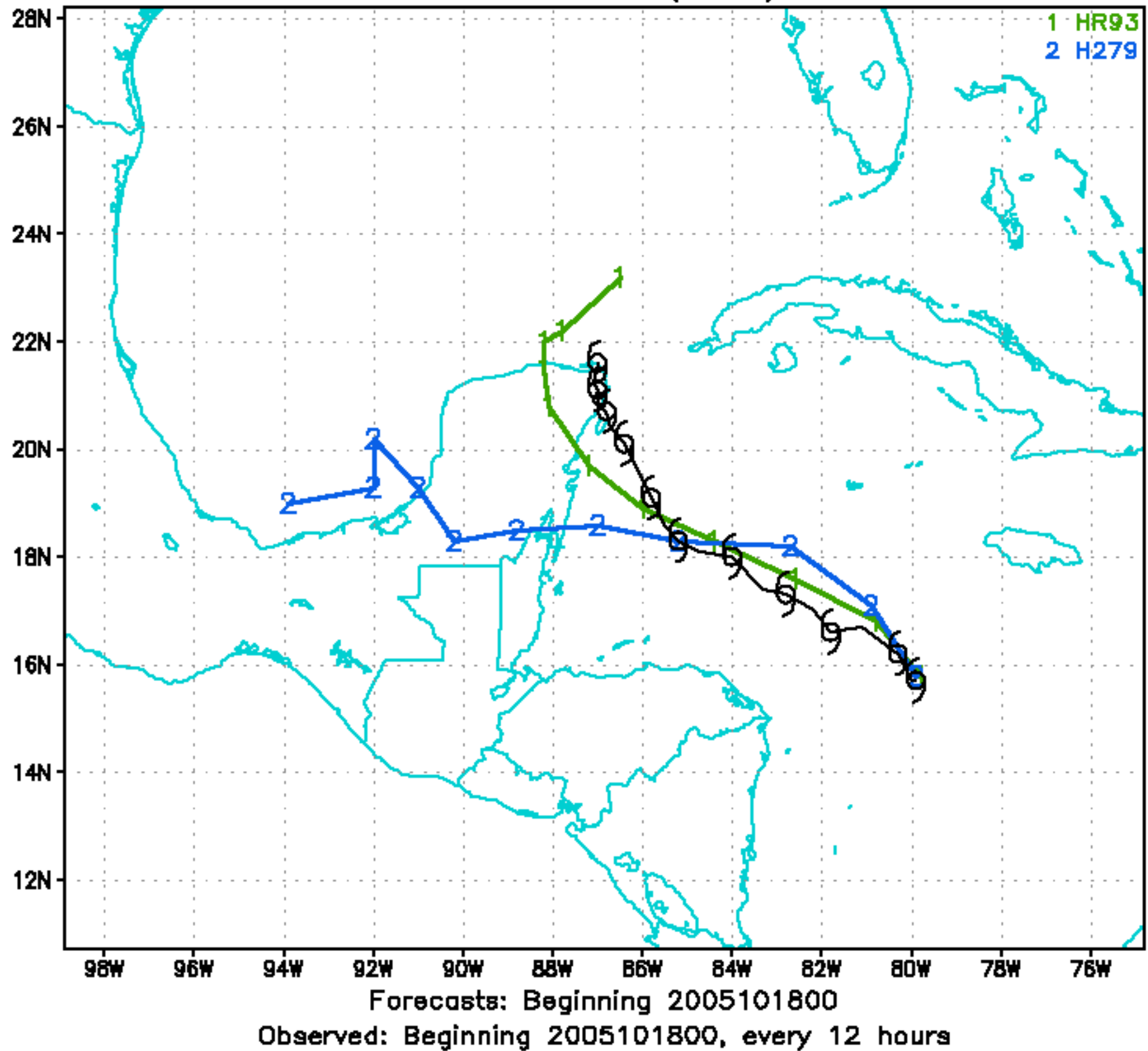


# 2005 Tropical Cyclone Tracks

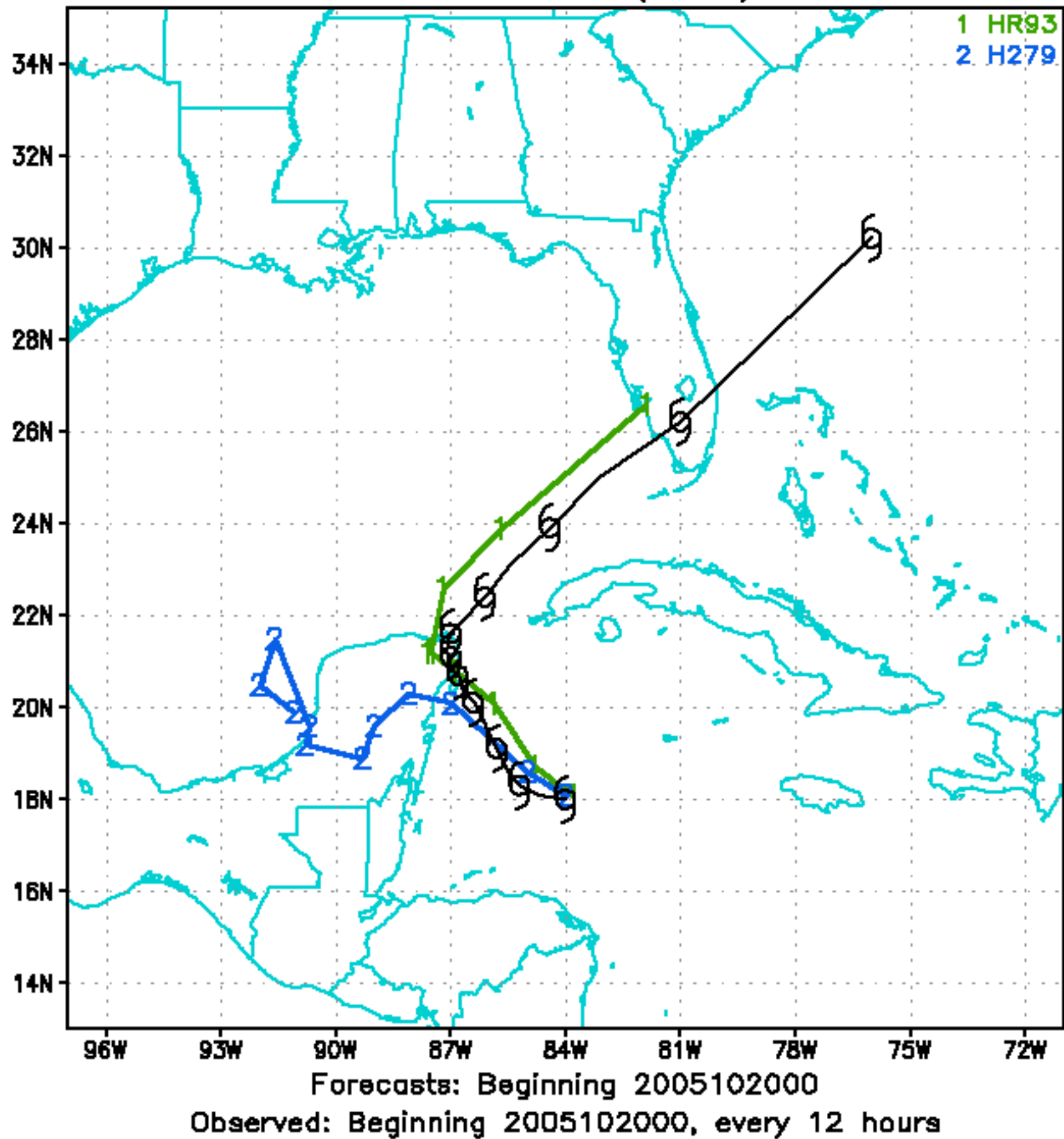
Storm: AL1805 (RITA)



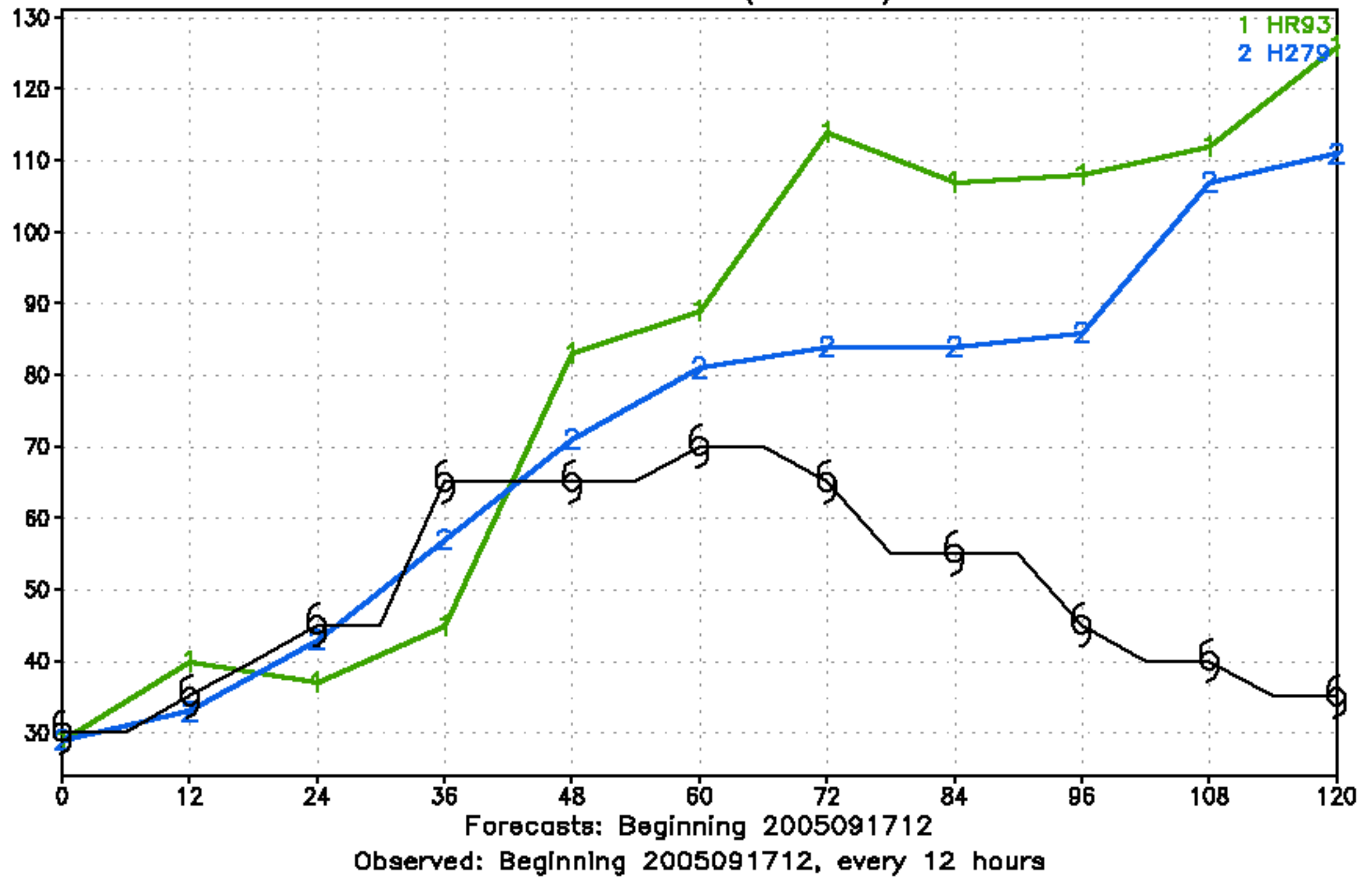
2005 Tropical Cyclone Tracks  
Storm: AL2505 (WILMA)

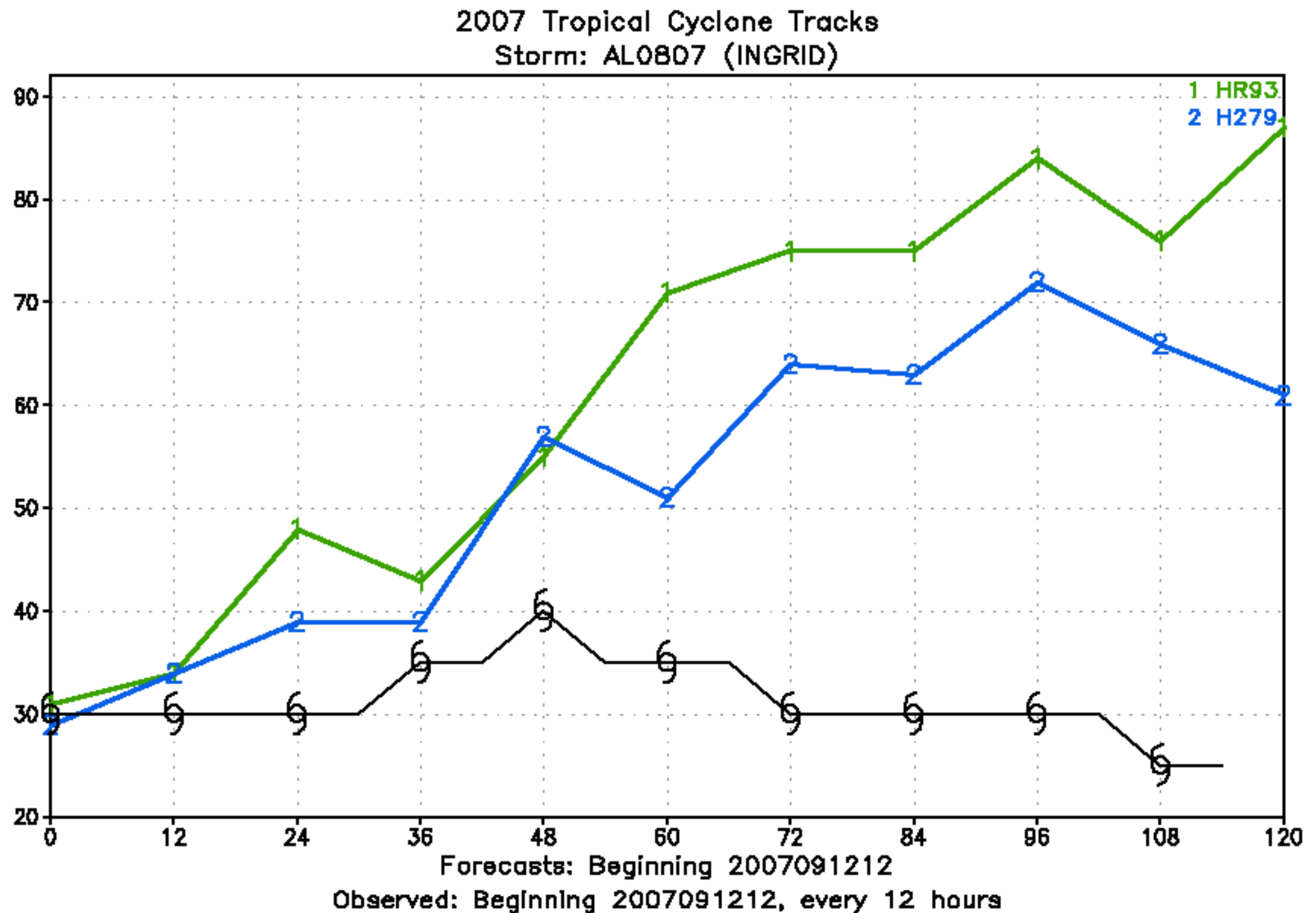


2005 Tropical Cyclone Tracks  
Storm: AL2505 (WILMA)



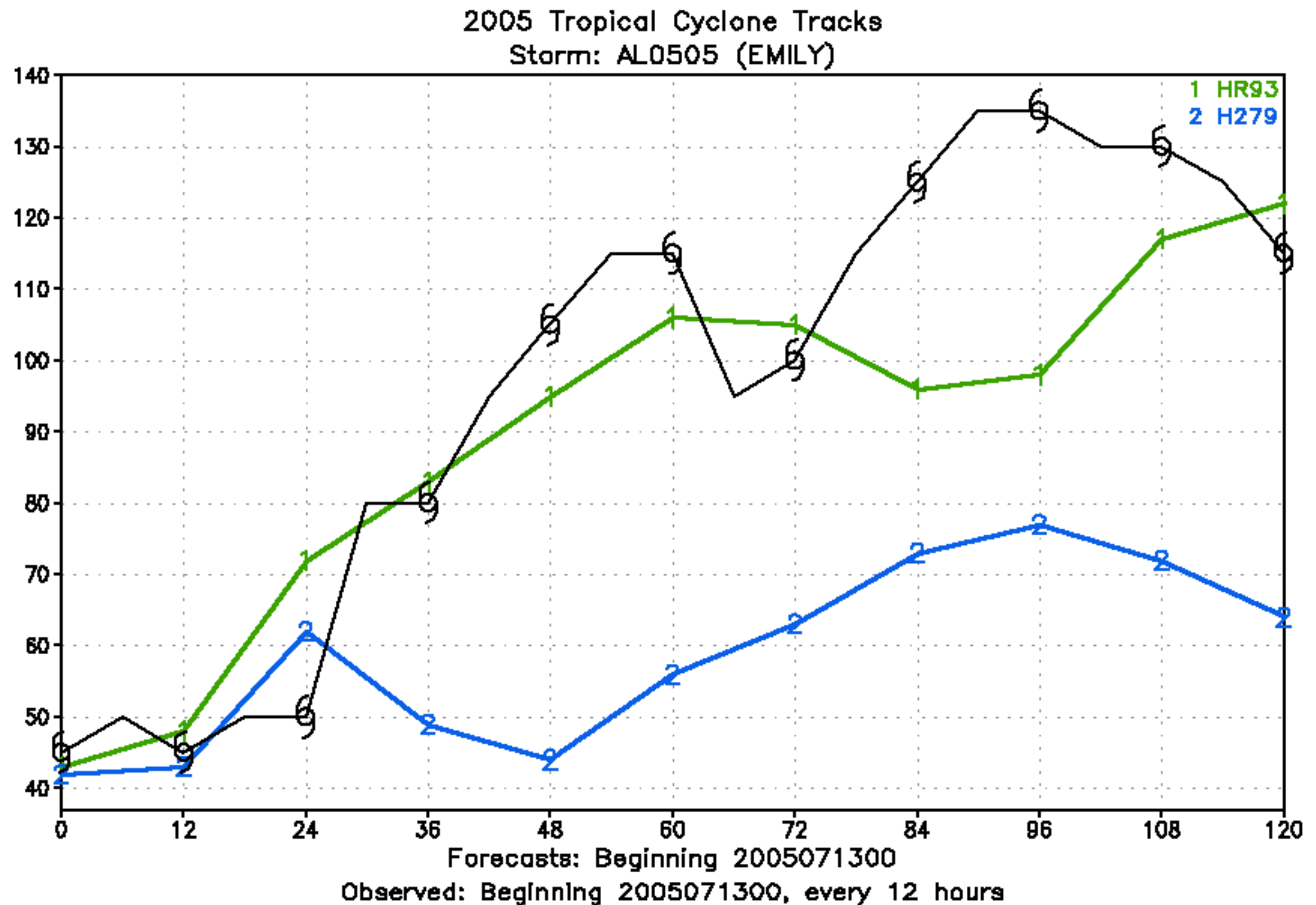
2005 Tropical Cyclone Tracks  
Storm: AL1705 (PHILIPPE)





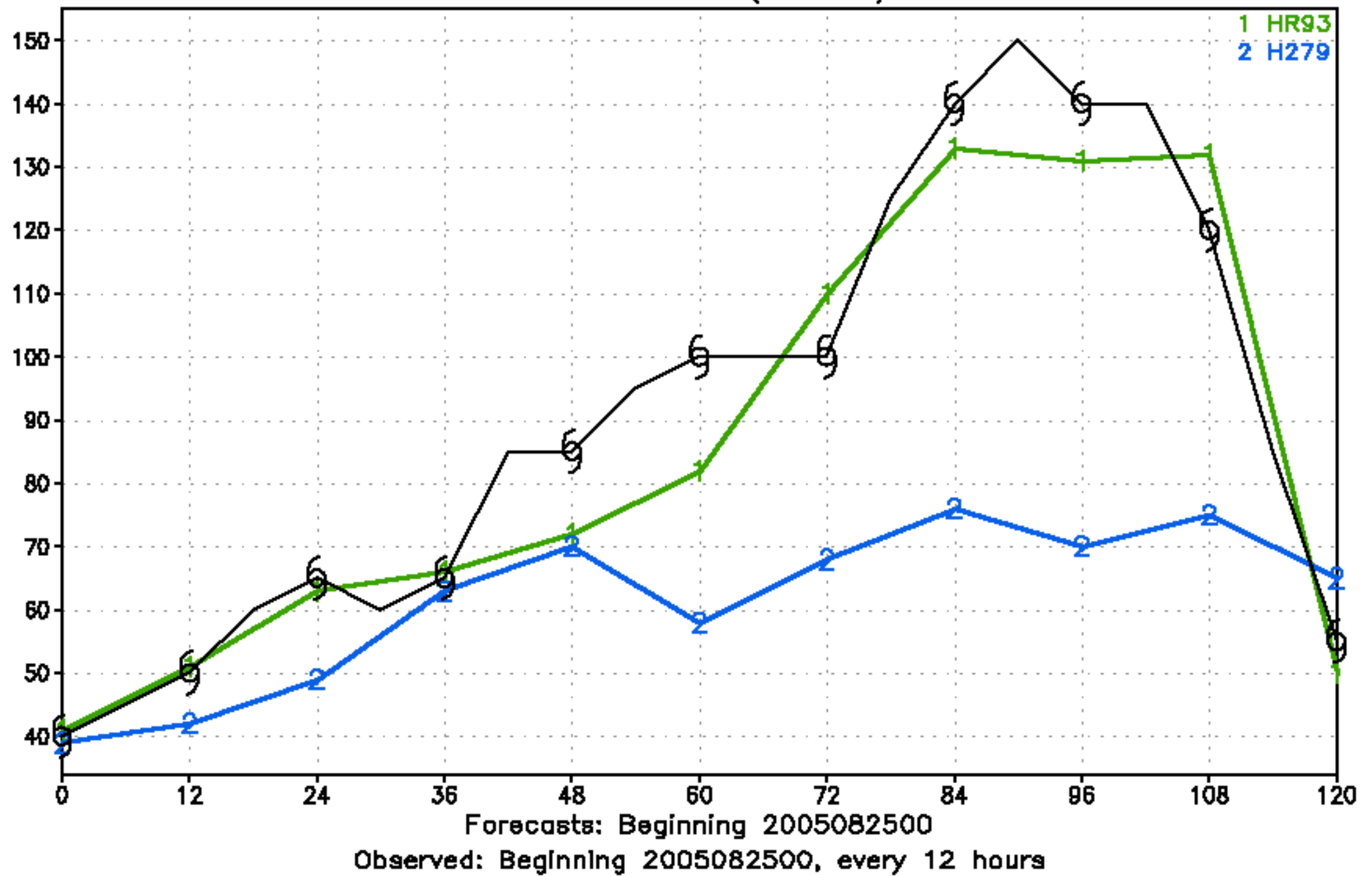
Case in which 9-3 intensity is much worse than 27-9 track.



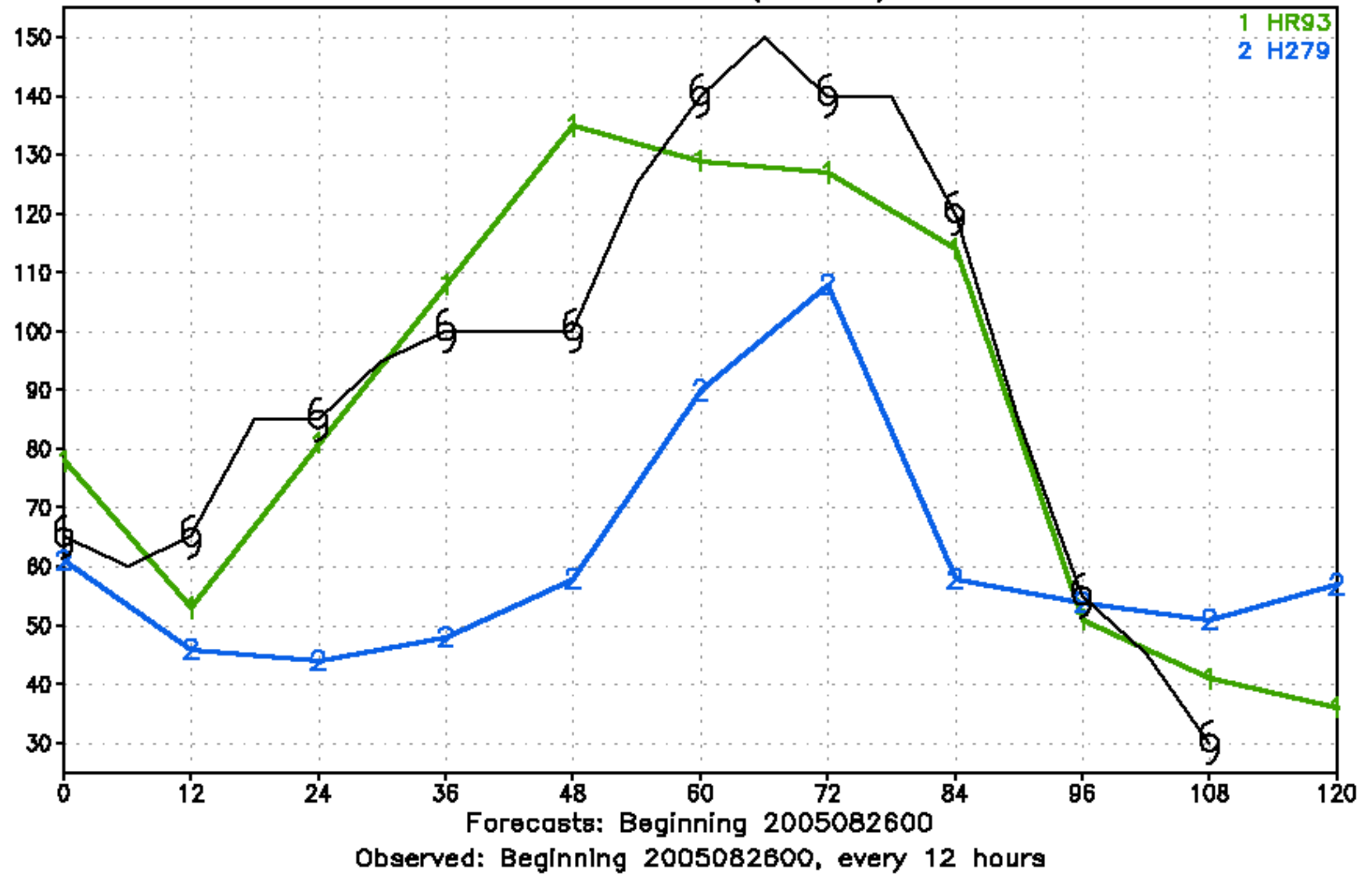


Cases in which 9-3 intensity is much better than 27-9 track.

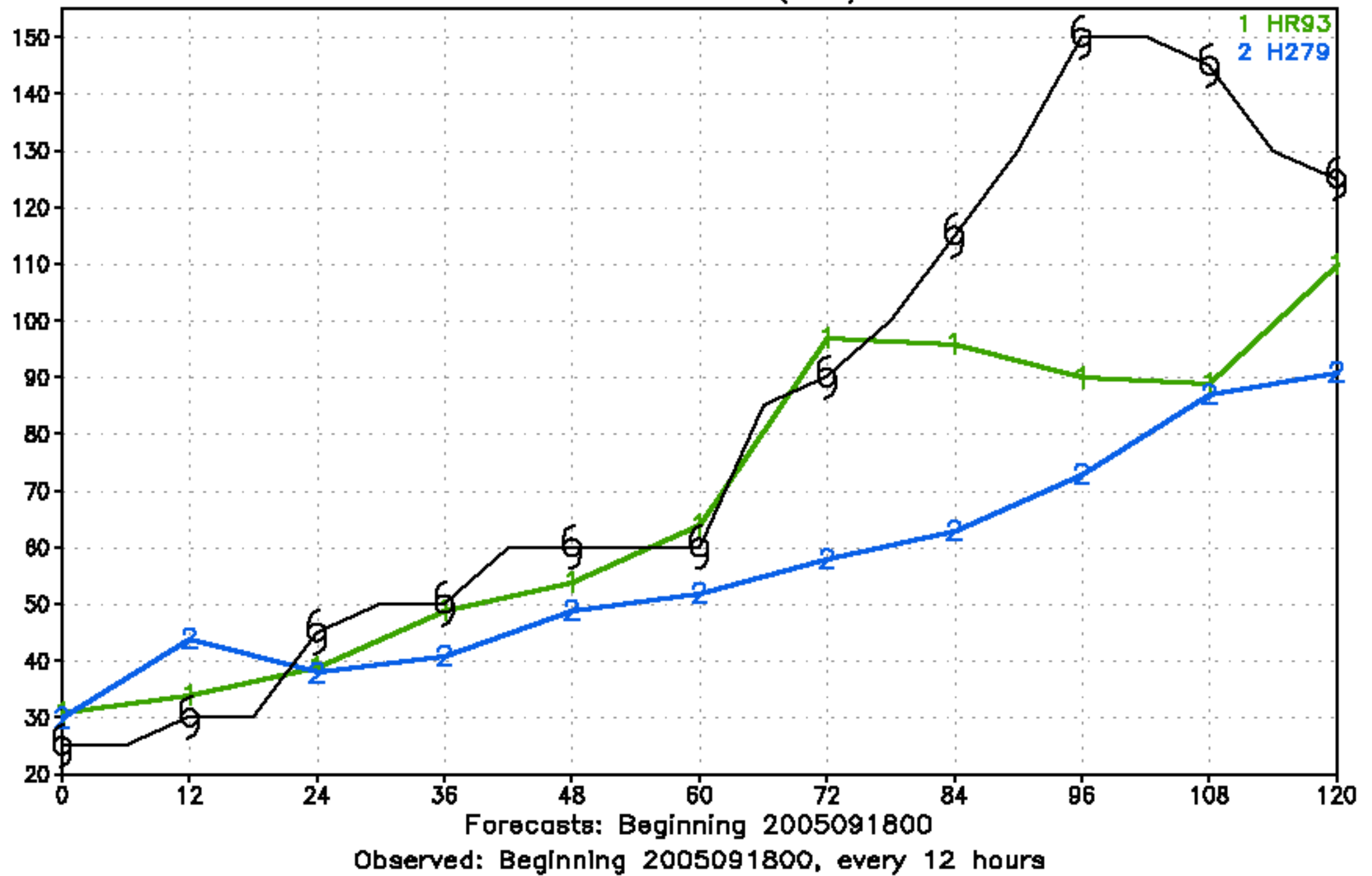
2005 Tropical Cyclone Tracks  
Storm: AL1205 (KATRINA)



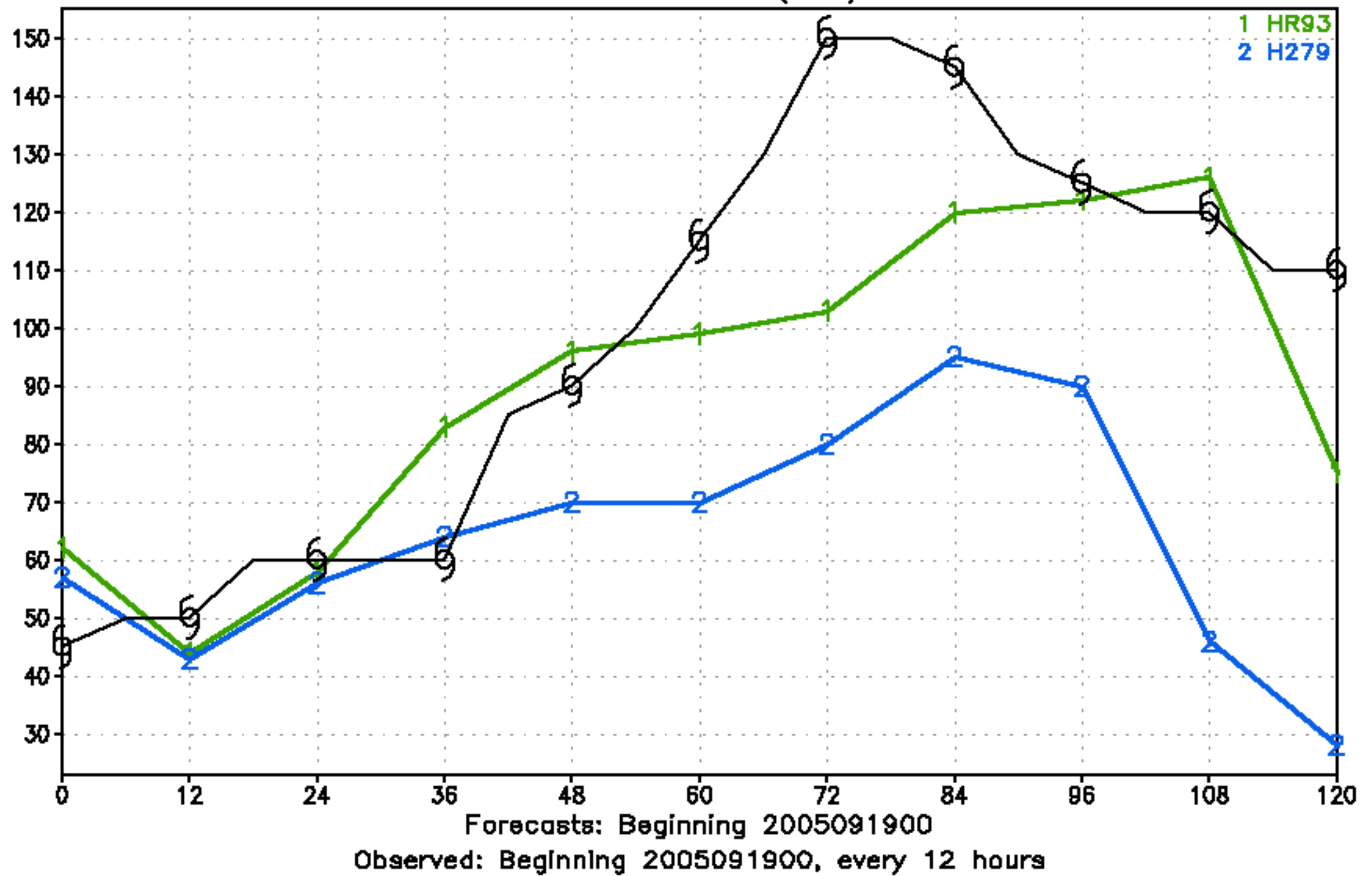
2005 Tropical Cyclone Tracks  
Storm: AL1205 (KATRINA)



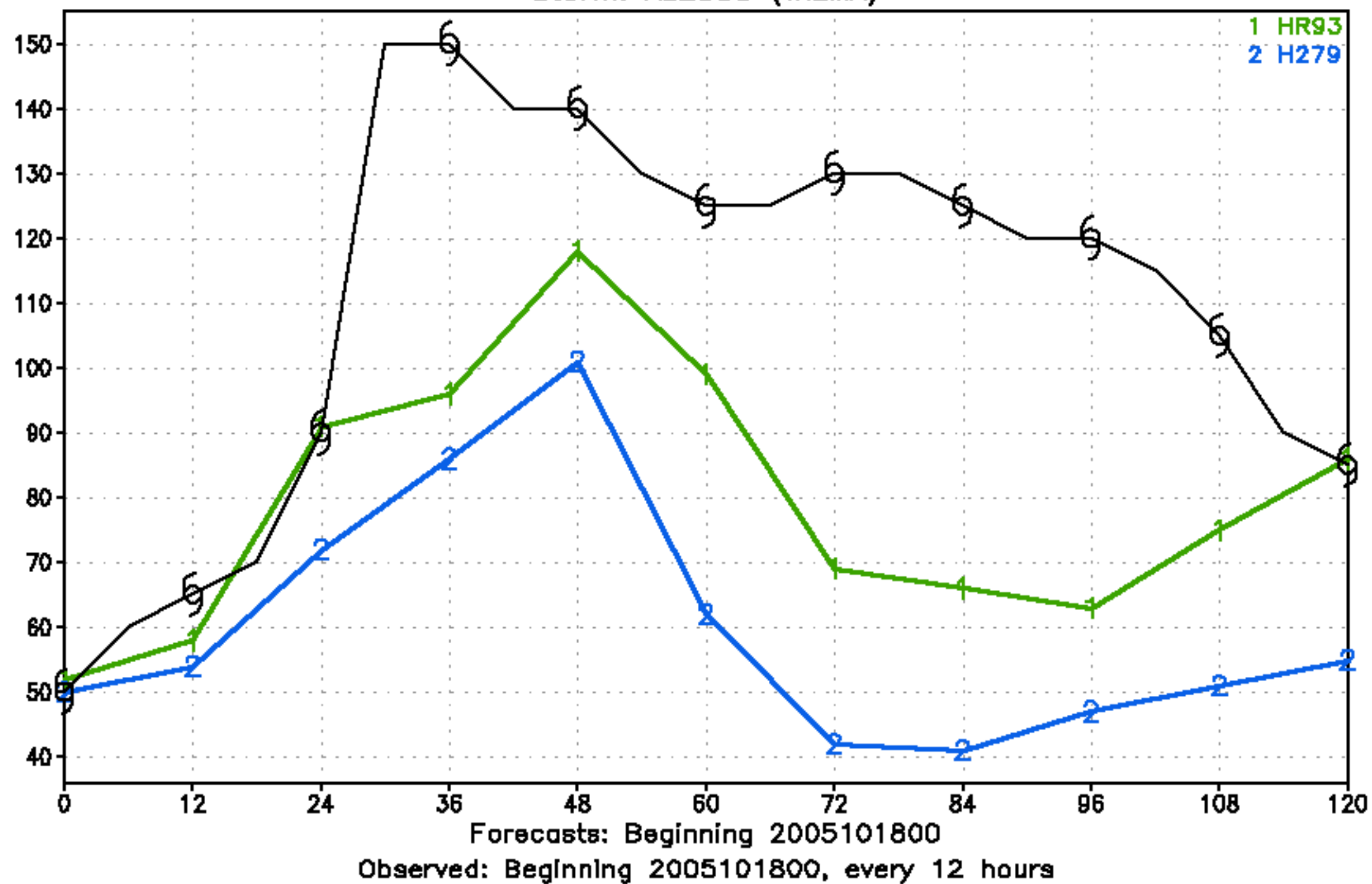
2005 Tropical Cyclone Tracks  
Storm: AL1805 (RITA)



2005 Tropical Cyclone Tracks  
Storm: AL1805 (RITA)



2005 Tropical Cyclone Tracks  
Storm: AL2505 (WILMA)



2005 Tropical Cyclone Tracks  
Storm: AL2505 (WILMA)

