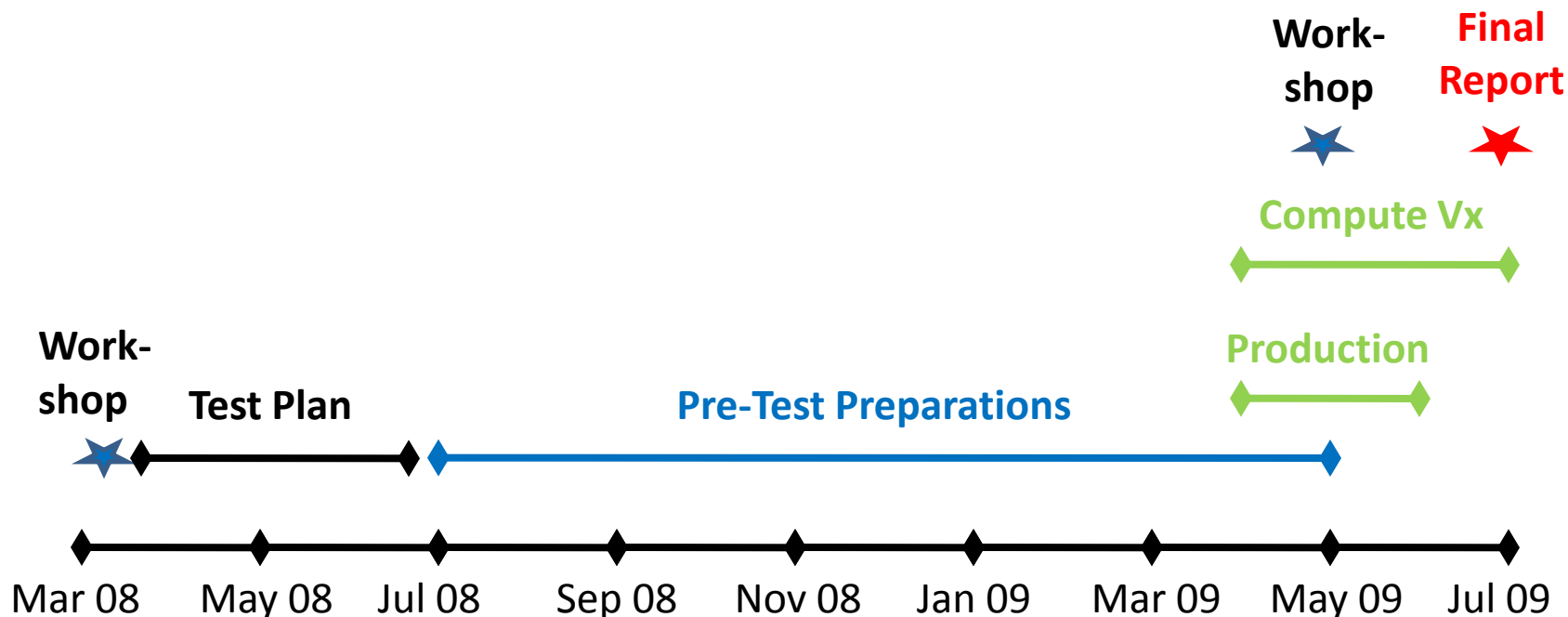


High Resolution Hurricane Forecast Test

Goals:

- Evaluate the effect of increasing horizontal resolution within a given model configuration on hurricane intensity forecasts
- Provide a data set that can be used to explore the potential value of a multi-model ensemble for improving hurricane forecasts

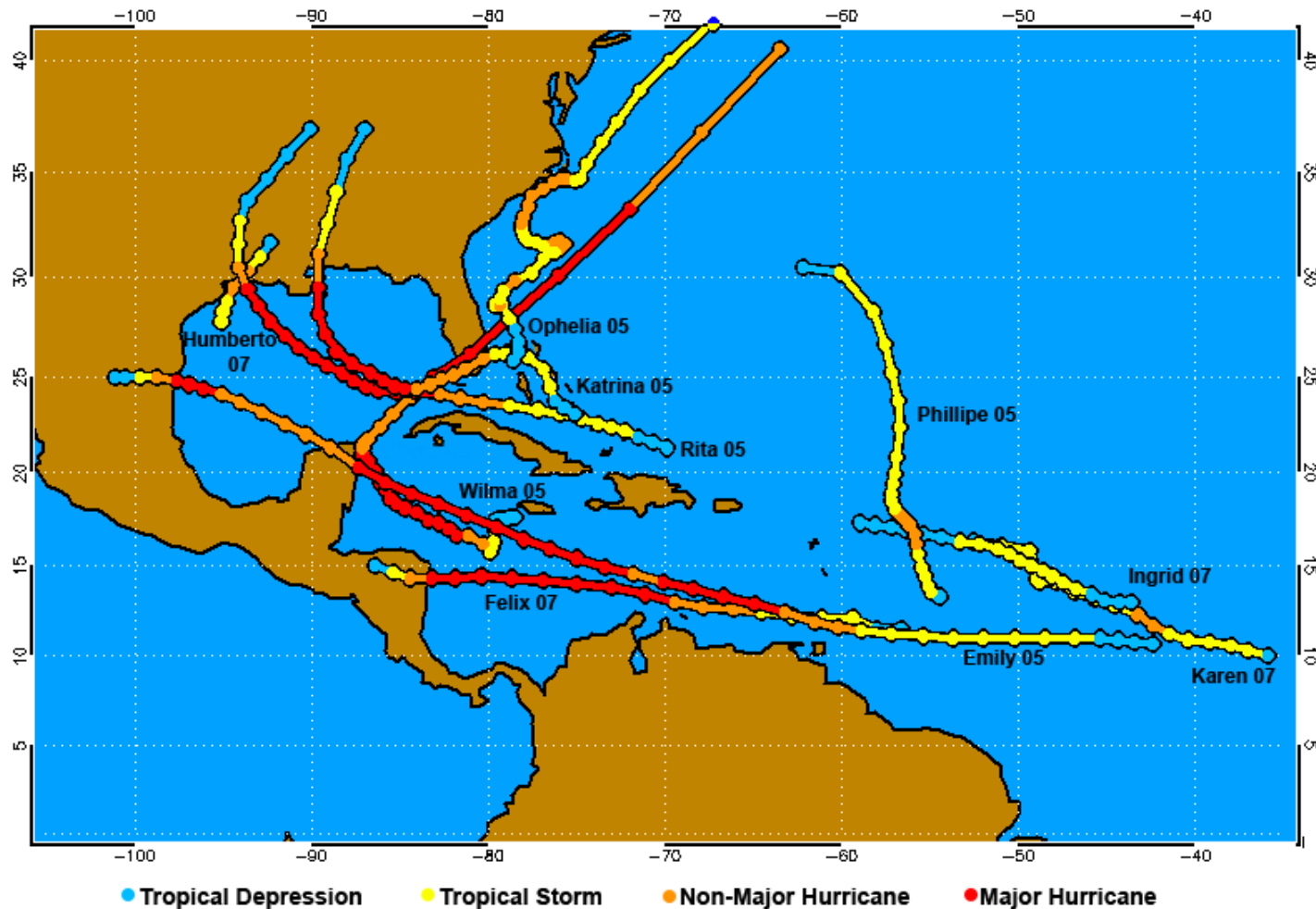


HRH Test Cases

Criteria: diverse set of storms, as well as time periods for each storm

Ten storms from the 2005 & 2007 hurricane seasons

Number of cases: 69



DTC Evaluation Team

- Louisa Nance
- Ligia Bernardet
- Barb Brown
- Jamie Wolff
- Chris Harrop
- Laurie Carson
- Tara Jensen
- John Halley Gotway
- Shaowu Bao
- Jian-Wen Bao

Honorary Member - Tim Marchok

Extensive assistance wrt GFDL Vortex Tracker!

HRH Teams

Verification

Barb Brown (NCAR)
James Franklin (NHC)
Mike Fiorino (NHC)
Mark DeMaria (CIRA)
Tim Marchok (GFDL)

Case Selection

Jack Beven (NHC)
Mark DeMaria (CIRA)

Data inventory - AOML

Storm	8 April 09	Workshop	4 May 09
Wilma (11)	8	3	11
Phillipe (6)	-	-	-
Felix (8)	-	-	-
Rita (7)	-	6	7 (6)
Karen (4)	-	4	4
Katrina (6)	-	6	6
Humberto (2)	-	-	-
Ingrid (4)	-	-	-
Emily (10)	-	9	10 (8)
Ophelia (11)	-	-	-
Total (69)	8	28	38 (35)

Data inventory - MMM

Storm	8 April 09	Workshop	4 May 09
Wilma (11)	9	4	9*
Phillipe (6)	-	1	3
Felix (8)	-	4	6 (5)
Rita (7)	-	3	6 (5)
Karen (4)	-	3	4 (3)
Katrina (6)	6	5	6
Humberto (2)	-	-	-
Ingrid (4)	-	-	-
Emily (10)	-	-	-
Ophelia (11)	-	-	-
Total (69)	15	20	35 (31)

Data inventory - NRL

Storm	8 April 09	Workshop	4 May 09
Wilma (11)	-	-	-
Phillipe (6)	-	-	-
Felix (8)	-	-	-
Rita (7)	-	-	-
Karen (4)	-	-	-
Katrina (6)	-	-	6
Humberto (2)	-	-	-
Ingrid (4)	-	-	-
Emily (10)	-	-	-
Ophelia (11)	-	-	-
Total (69)	-	-	6

Data inventory – PSU – “complete”

Storm	8 April 09	Workshop	4 May 09
Wilma (11)	1	2	2
Phillipe (6)	-	-	-
Felix (8)	-	-	-
Rita (7)	-	3	3
Karen (4)	-	-	-
Katrina (6)	2	2	2
Humberto (2)	-	1	1
Ingrid (4)	-	-	-
Emily (10)	-	1	1
Ophelia (11)	-	_*	_*
Total (69)	3	9	9

Data inventory - URI

Storm	8 April 09	Workshop	4 May 09
Wilma (11)	11	11	11
Phillipe (6)	4	6	6
Felix (8)	-	7	7
Rita (7)	5	6	6
Karen (4)	-	4	4
Katrina (6)	-	6	6
Humberto (2)	-	-	2 (1)
Ingrid (4)	-	-	-
Emily (10)	-	8	8
Ophelia (11)	-	10	10
Total (69)	20	58	60 (59)

Data inventory - UWM

Storm	8 April 09	Workshop	4 May 09
Wilma (11)	-	-	3
Phillipe (6)	-	-	-
Felix (8)	-	-	-
Rita (7)	-	-	-
Karen (4)	-	-	-
Katrina (6)	-	-	-
Humberto (2)	-	-	-
Ingrid (4)	-	-	-
Emily (10)	-	-	-
Ophelia (11)	-	-	-
Total (69)	-	-	3