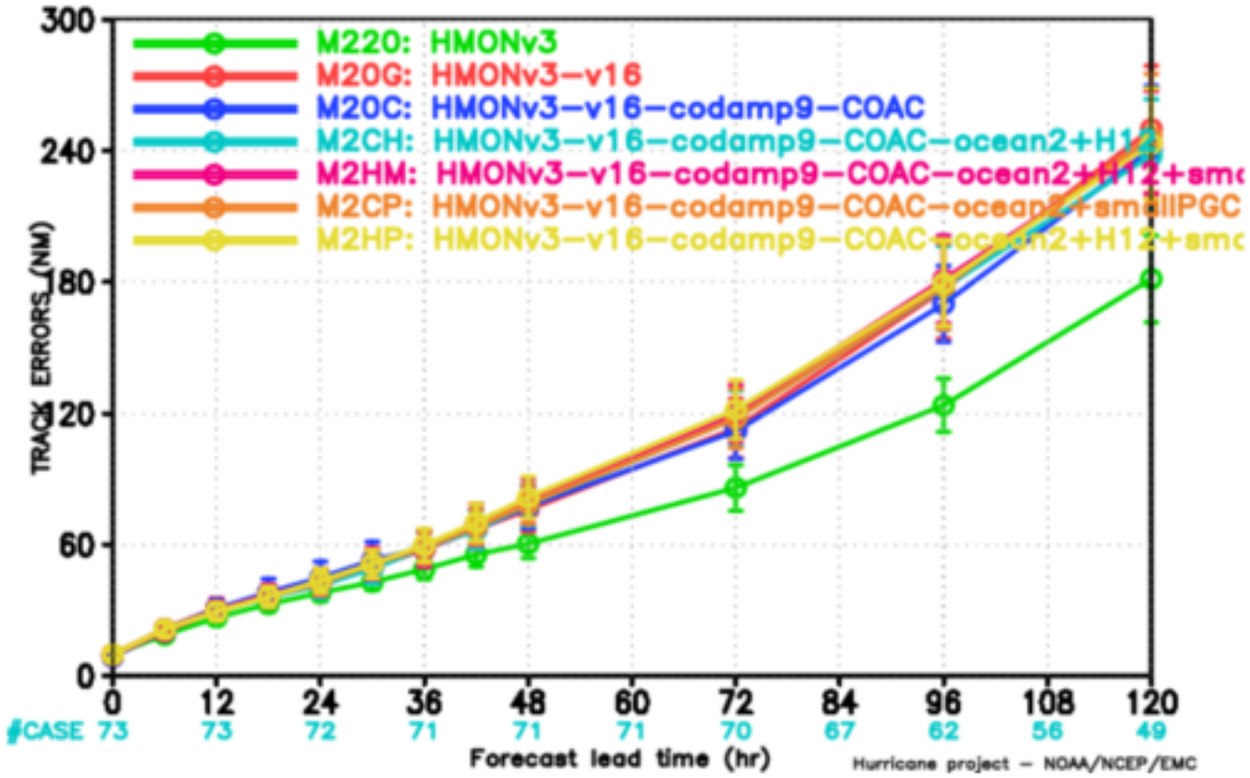
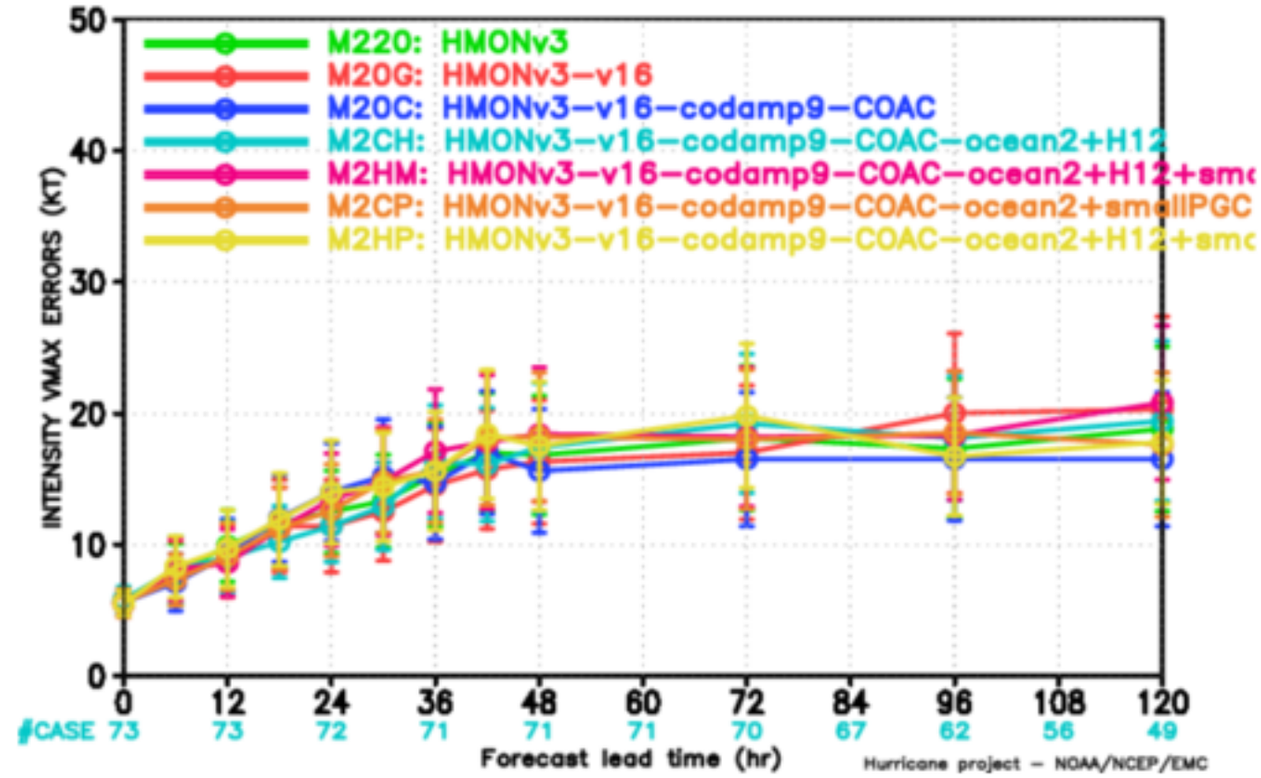
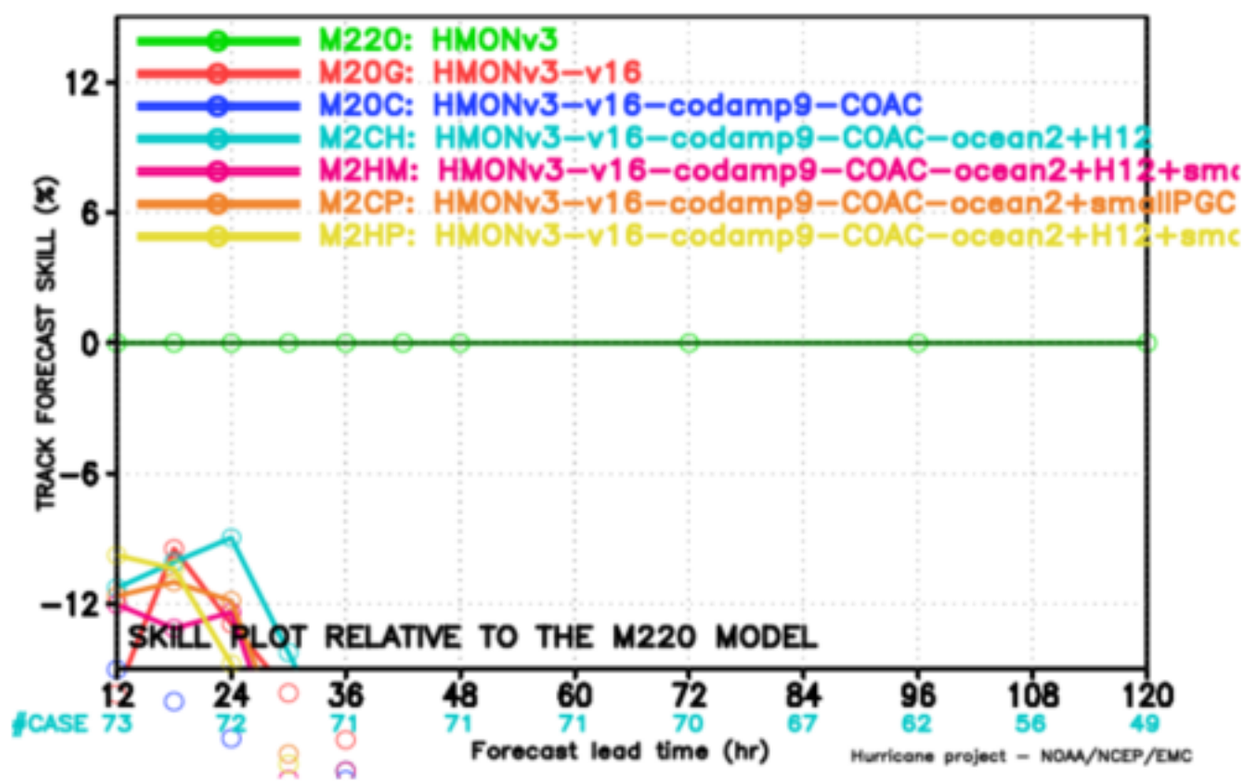
MODEL FORECAST – TRACK ERRORS (NM)
VERIFICATION FOR HMON



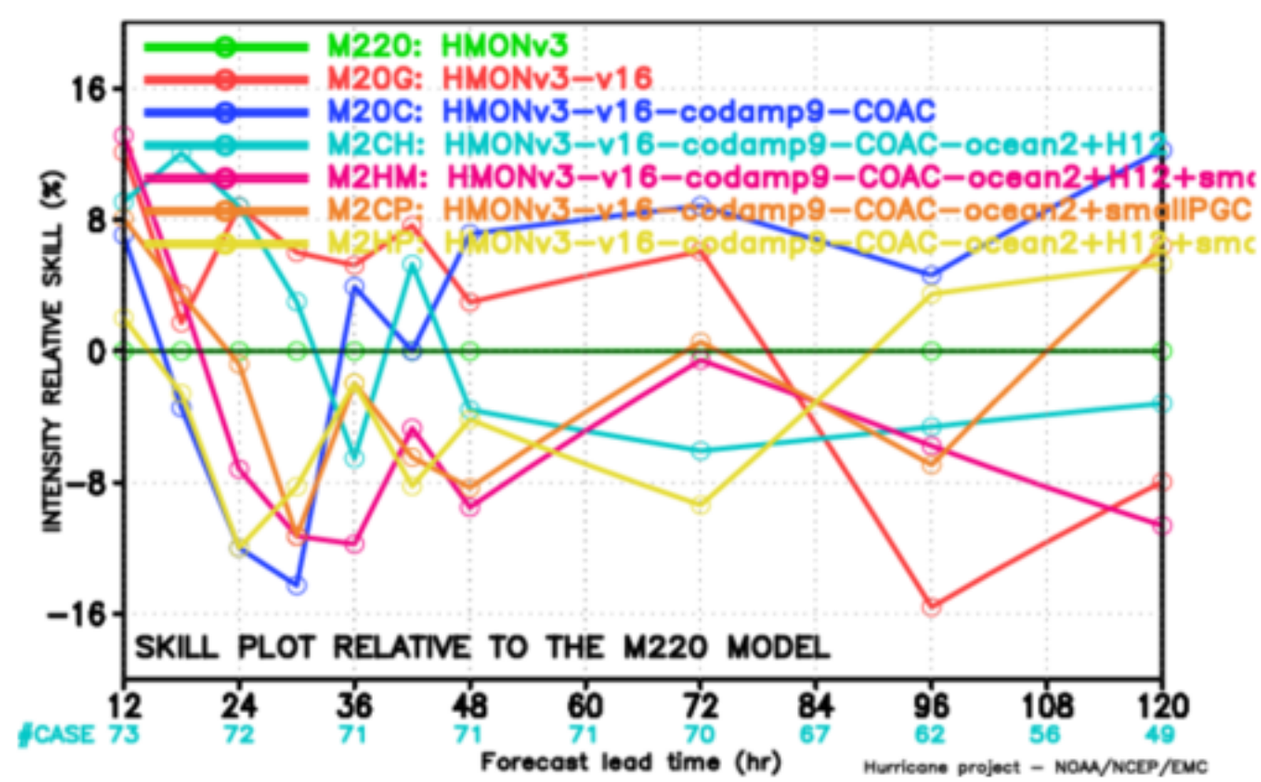
MODEL FORECAST – INTENSITY VMAX ERRORS (KT)
VERIFICATION FOR HMON



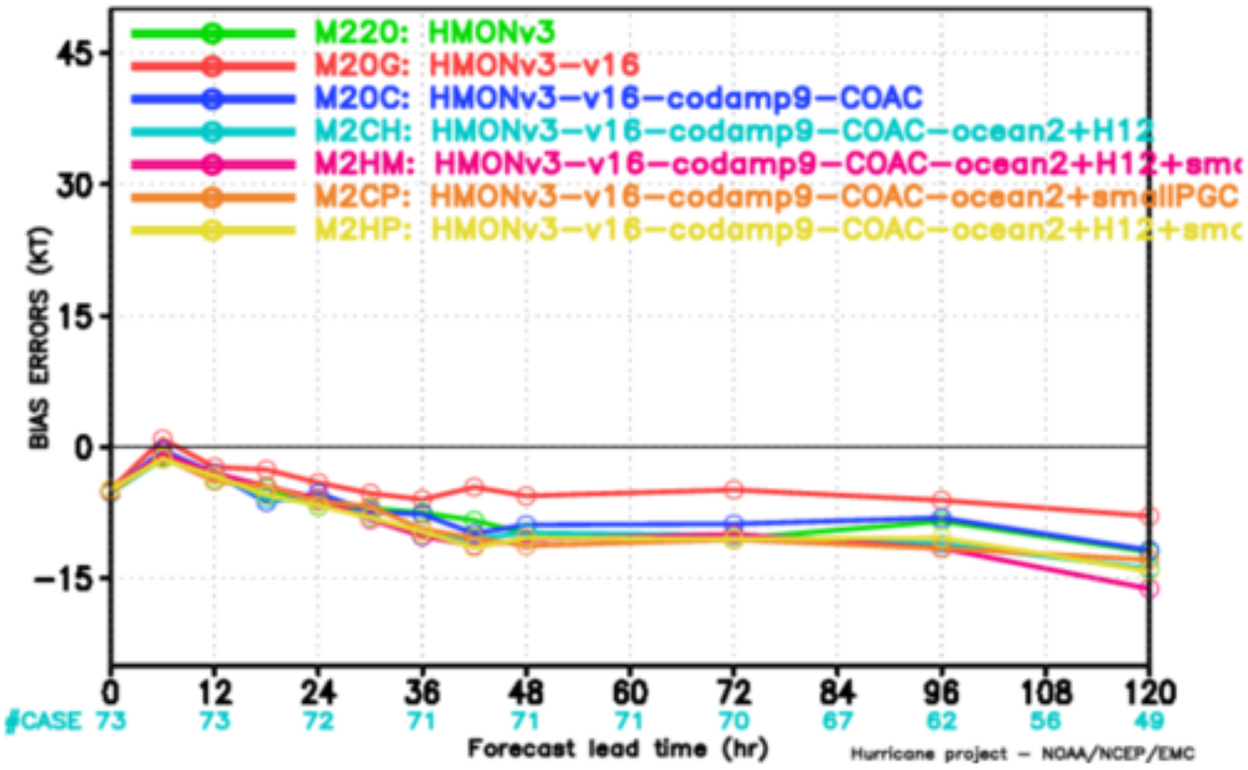
MODEL FORECAST – TRACK FORECAST SKILL (%) STATISTICS
VERIFICATION FOR HMON



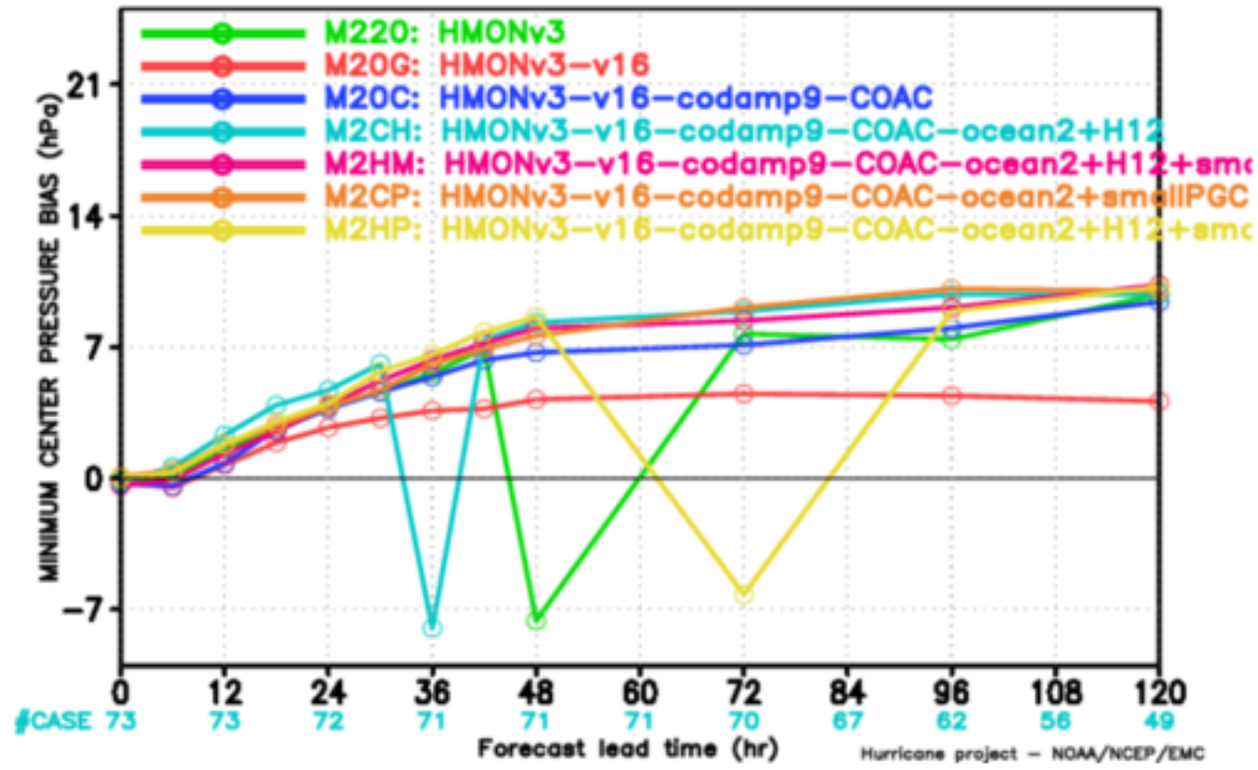
MODEL FORECAST – INTENSITY RELATIVE SKILL (%) STATISTICS
VERIFICATION FOR HMON



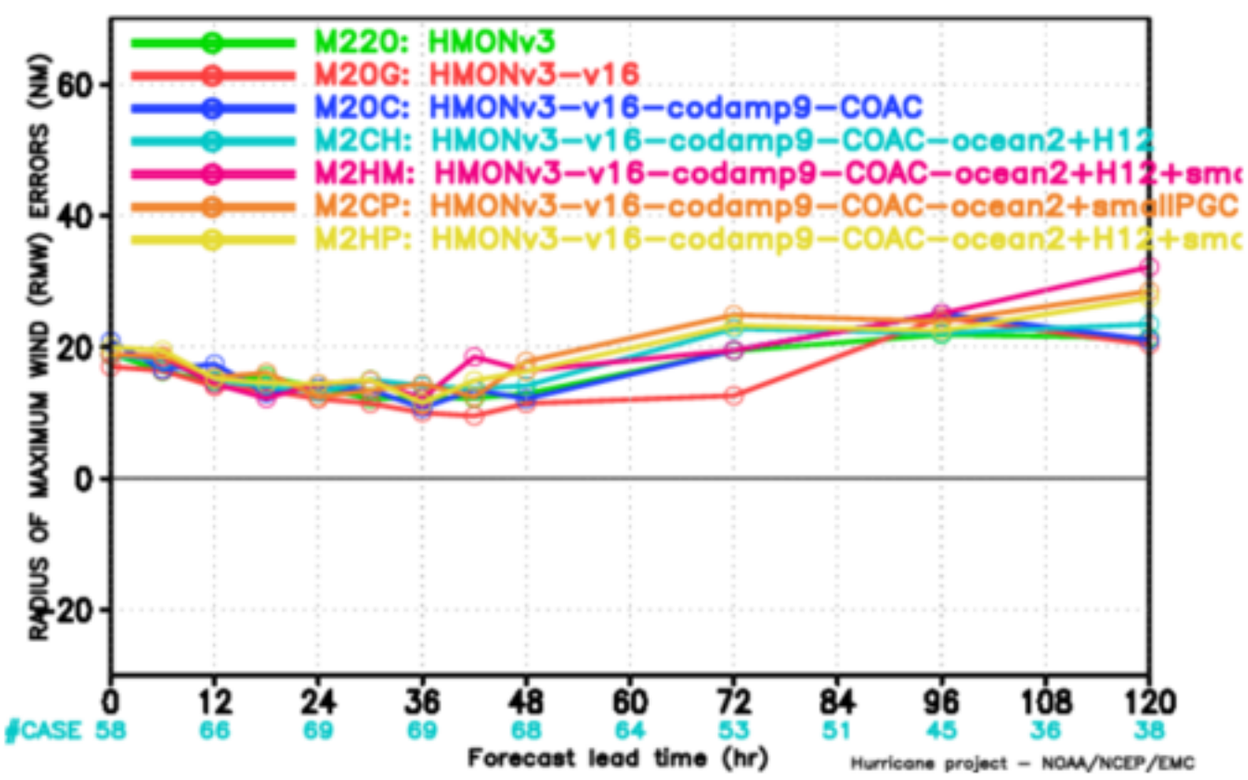
MODEL FORECAST – BIAS ERRORS (KT)
VERIFICATION FOR HMON



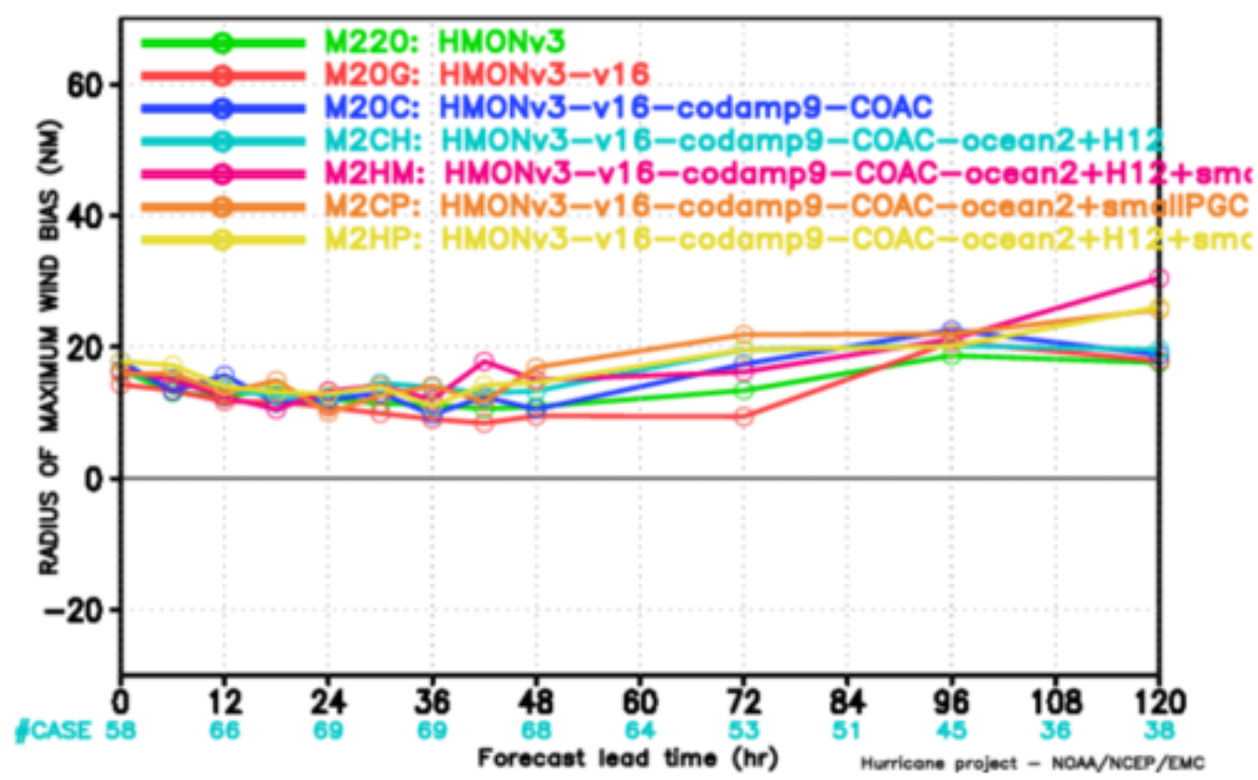
MODEL FORECAST – MINIMUM CENTER PRESSURE BIAS (hPa)
VERIFICATION FOR HMON

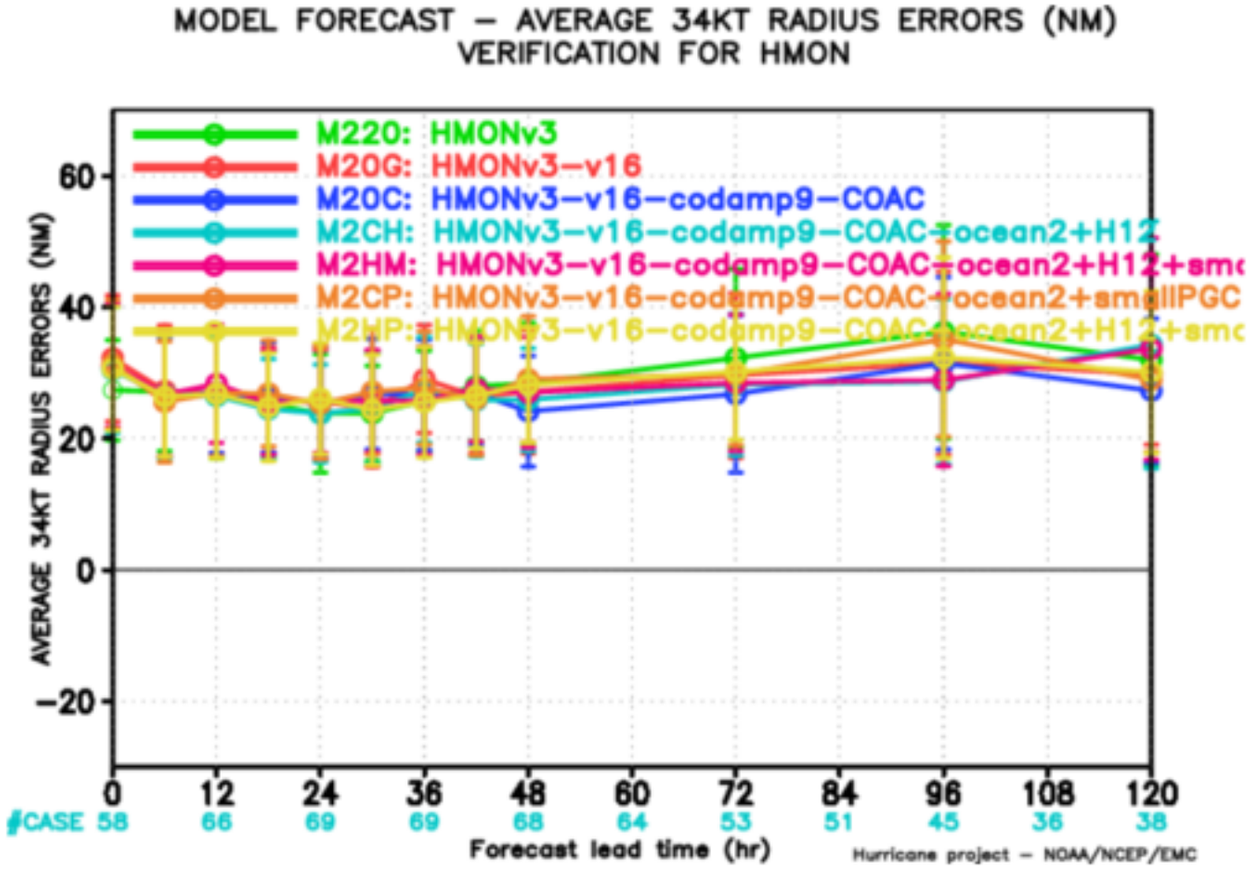


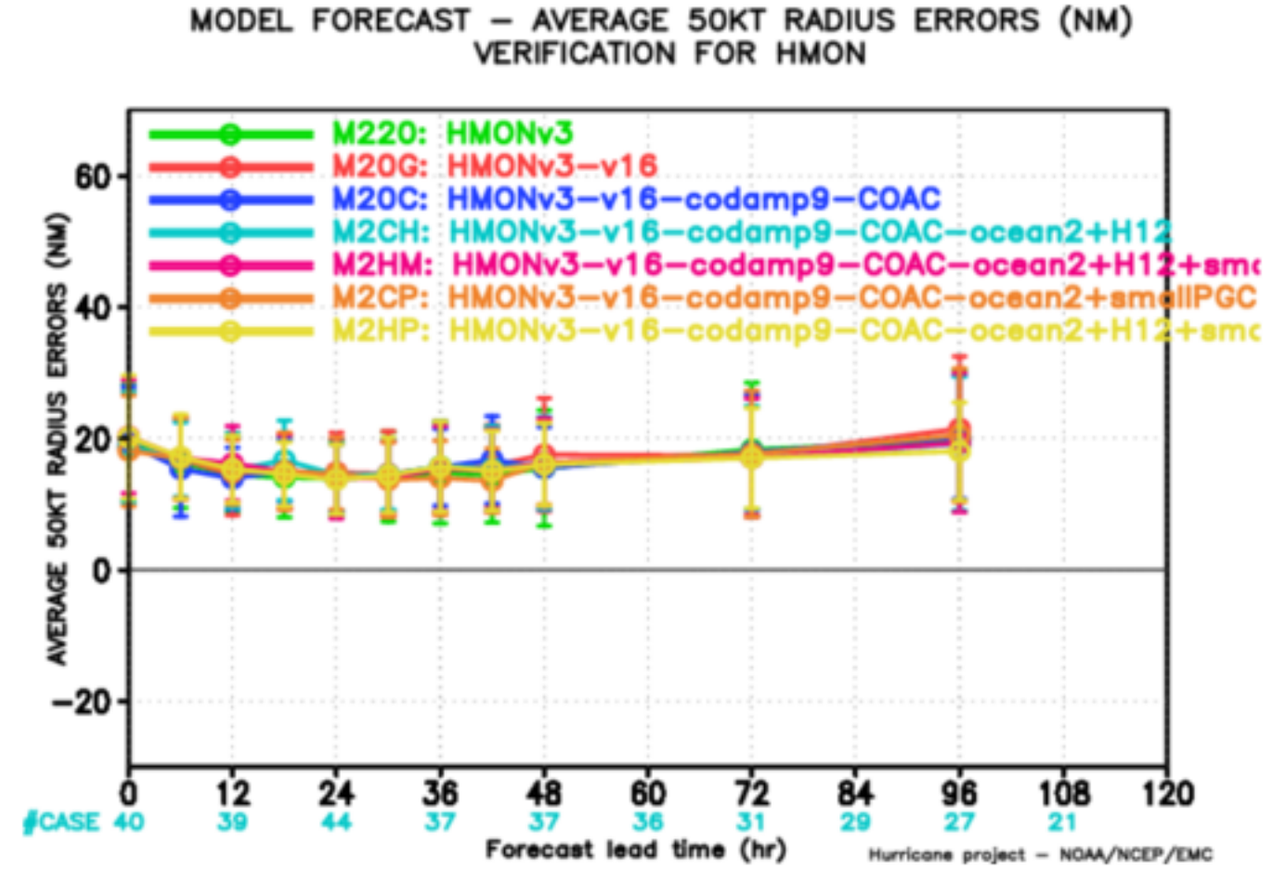
MODEL FORECAST – RADIUS OF MAXIMUM WIND (RMW) ERRORS (NM)
VERIFICATION FOR HMON

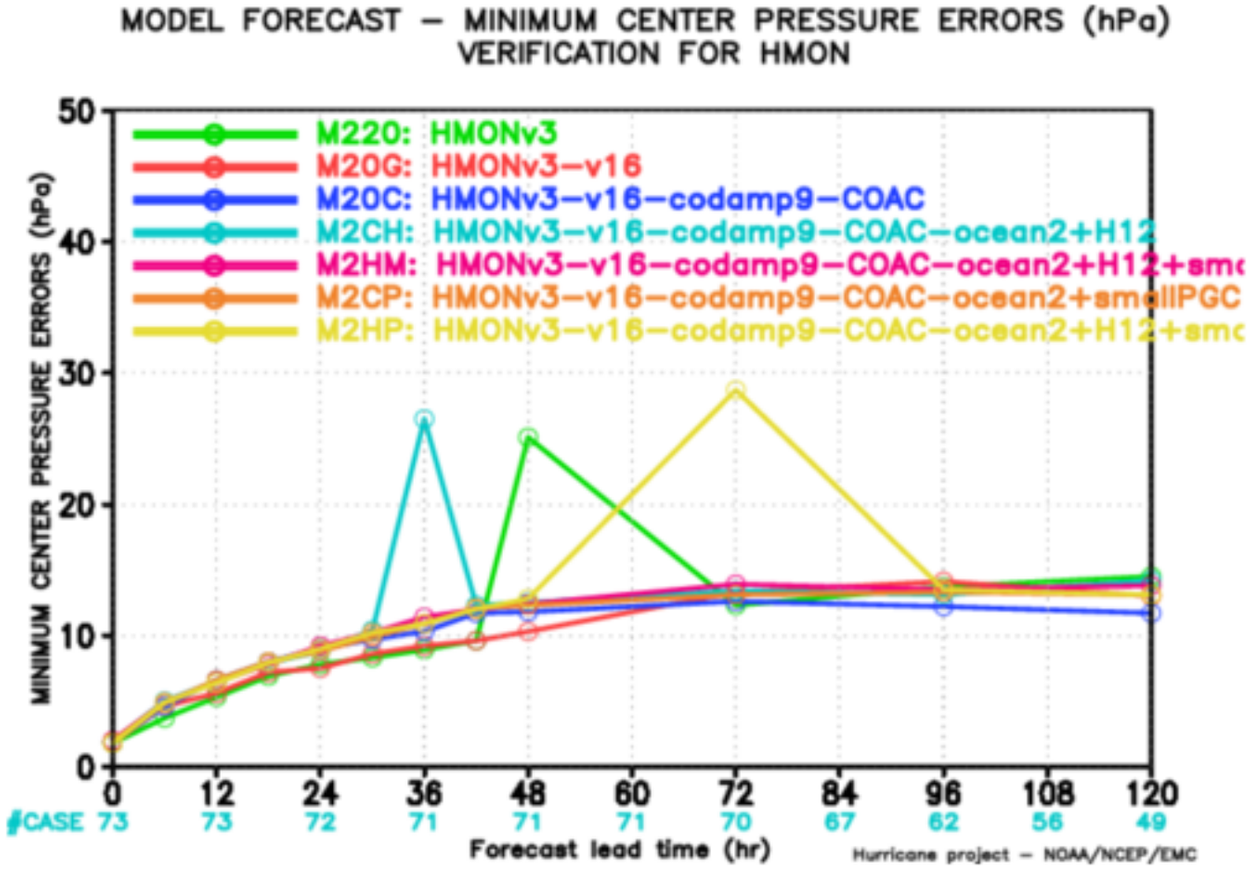


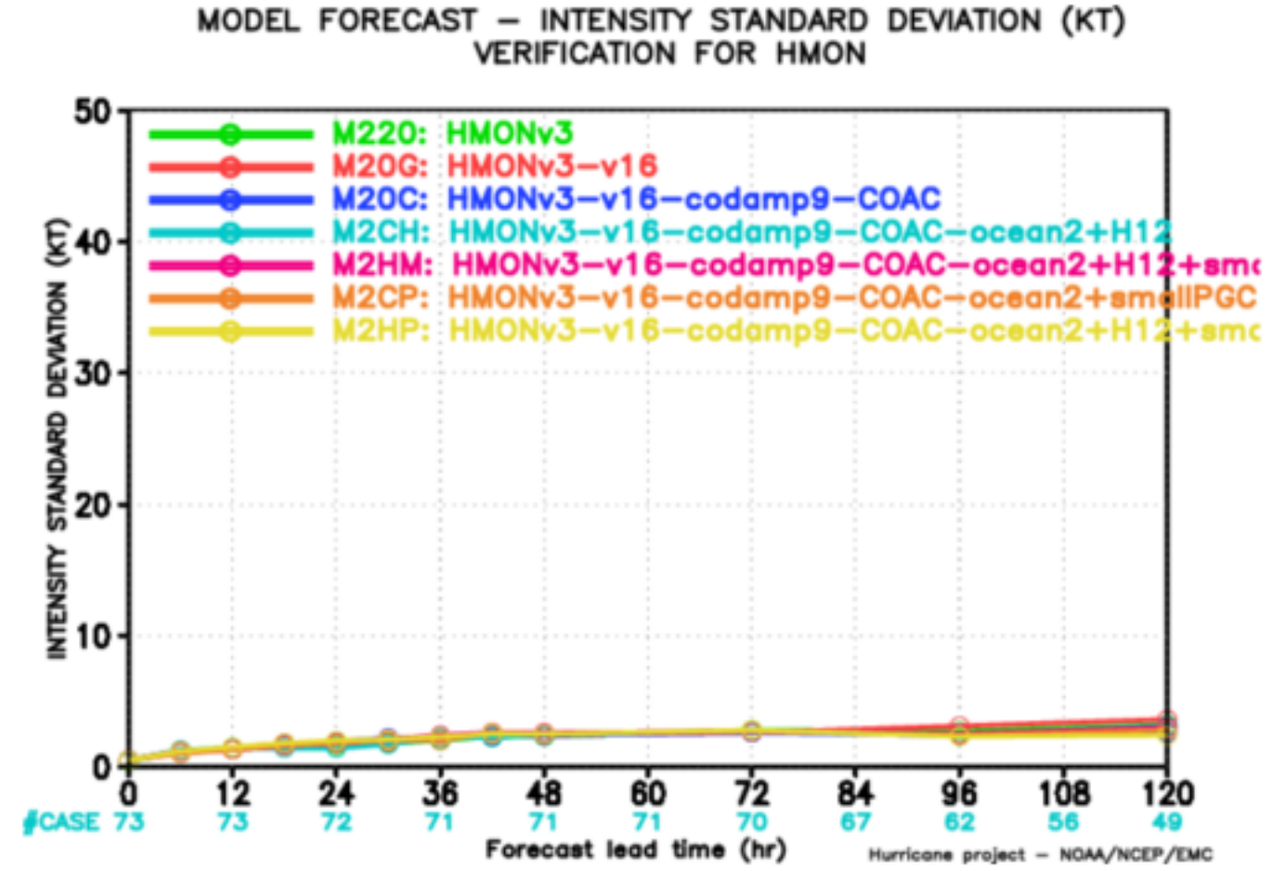
MODEL FORECAST – RADIUS OF MAXIMUM WIND BIAS (NM)
VERIFICATION FOR HMON

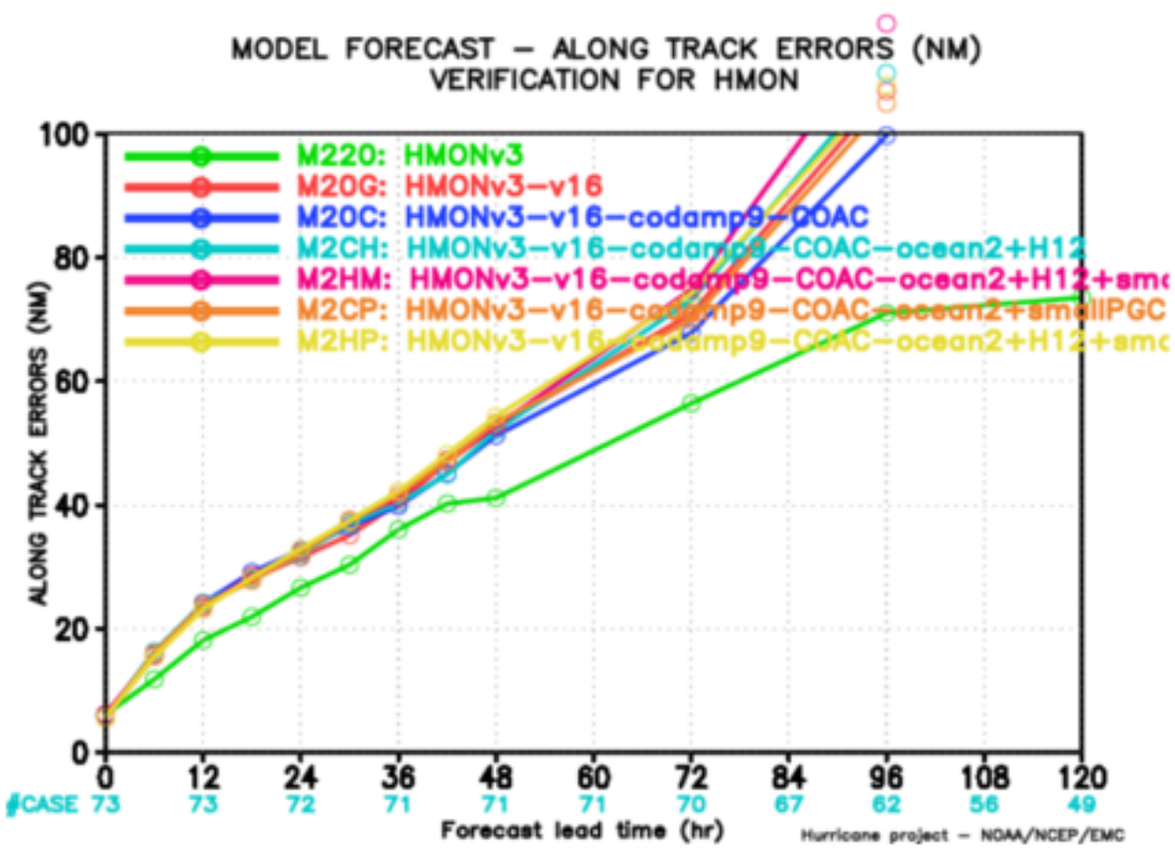


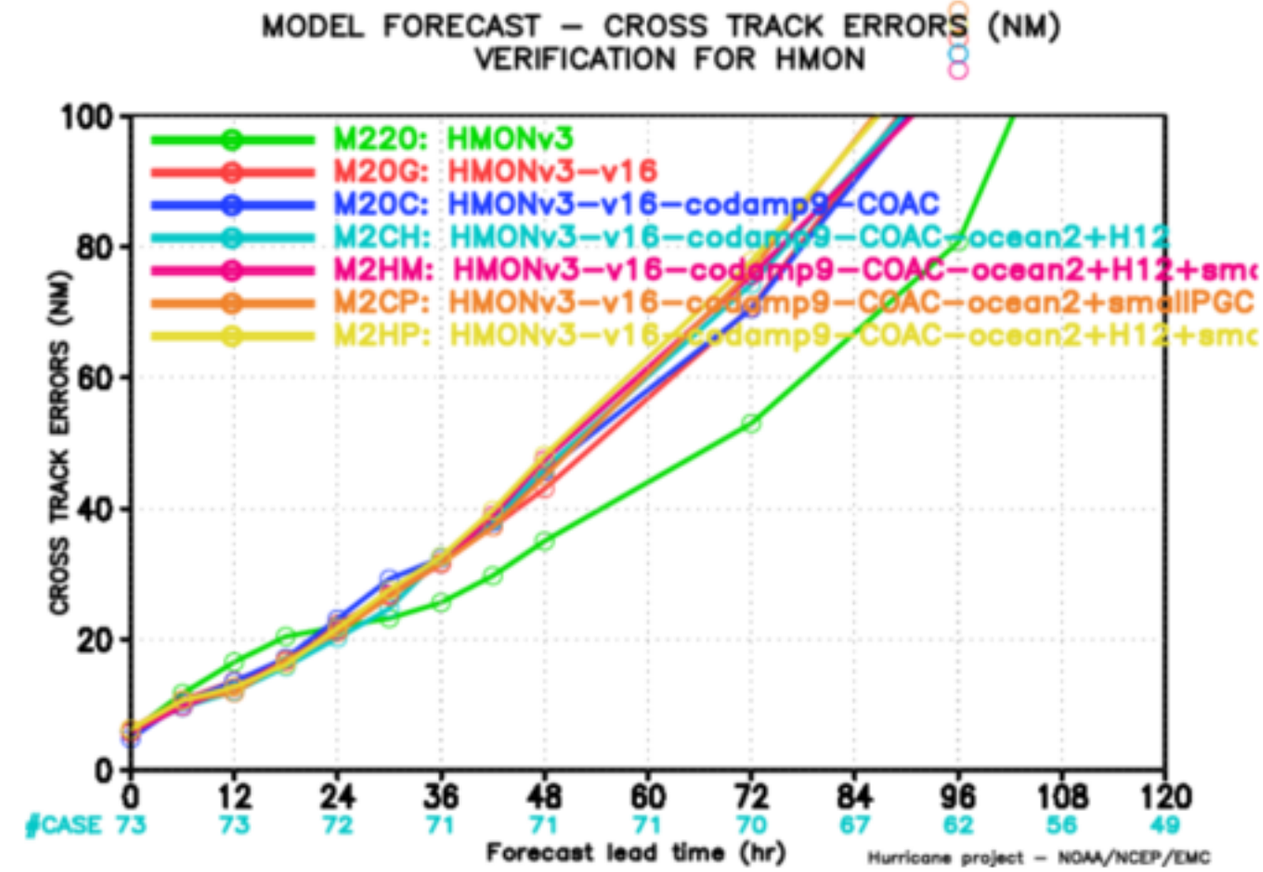

MODEL FORECAST – AVERAGE 34KT RADIUS ERRORS (NM)
VERIFICATION FOR HMON
M22O: HMONv3
M20G: HMONv3–v16
M20C: HMONv3–v16–codamp9–COAC
M2CH: HMONv3–v16–codamp9–COAC–ocean2+H12
M2HM: HMONv3–v16–codamp9–COAC–ocean2+H12+sma
M2CP: HMONv3–v16–codamp9–COAC–ocean2+smallPGC
M2HP: HMONv3–v16–codamp9–COAC–ocean2+H12+sma
AVERAGE 34KT RADIUS ERRORS (NM)
60
40
20
0
–20
0 12 24 36 48 60 72 84 96 108 120
#CASE 58 66 69 69 68 64 53 51 45 36 38
Forecast lead time (hr)
Hurricane project – NOAA/NCEP/EMC


MODEL FORECAST – AVERAGE 50KT RADIUS ERRORS (NM)
VERIFICATION FOR HMON
M22O: HMONv3
M20G: HMONv3–v16
M20C: HMONv3–v16–codamp9–COAC
M2CH: HMONv3–v16–codamp9–COAC–ocean2+H12
M2HM: HMONv3–v16–codamp9–COAC–ocean2+H12+sma
M2CP: HMONv3–v16–codamp9–COAC–ocean2+smallPGC
M2HP: HMONv3–v16–codamp9–COAC–ocean2+H12+sma
AVERAGE 50KT RADIUS ERRORS (NM)
60
40
20
0
–20
0 12 24 36 48 60 72 84 96 108 120
#CASE 40 39 44 37 37 36 31 29 27 21
Forecast lead time (hr)
Hurricane project – NOAA/NCEP/EMC


MODEL FORECAST – MINIMUM CENTER PRESSURE ERRORS (hPa)
VERIFICATION FOR HMON
M220: HMONv3
M20G: HMONv3–v16
M20C: HMONv3–v16–codamp9–COAC
M2CH: HMONv3–v16–codamp9–COAC–ocean2+H12
M2HM: HMONv3–v16–codamp9–COAC–ocean2+H12+sma
M2CP: HMONv3–v16–codamp9–COAC–ocean2+smallPGC
M2HP: HMONv3–v16–codamp9–COAC–ocean2+H12+sma
MINIMUM CENTER PRESSURE ERRORS (hPa)
0 10 20 30 40 50
0 12 24 36 48 60 72 84 96 108 120
#CASE 73 73 72 71 71 71 70 67 62 56 49
Forecast lead time (hr)
Hurricane project – NOAA/NCEP/EMC


MODEL FORECAST – INTENSITY STANDARD DEVIATION (KT)
VERIFICATION FOR HMON
M220: HMONv3
M20G: HMONv3–v16
M20C: HMONv3–v16–codamp9–COAC
M2CH: HMONv3–v16–codamp9–COAC–ocean2+H12
M2HM: HMONv3–v16–codamp9–COAC–ocean2+H12+sma
M2CP: HMONv3–v16–codamp9–COAC–ocean2+smallPGC
M2HP: HMONv3–v16–codamp9–COAC–ocean2+H12+sma
INTENSITY STANDARD DEVIATION (KT)
0 10 20 30 40 50
0 12 24 36 48 60 72 84 96 108 120
#CASE 73 73 72 71 71 71 70 67 62 56 49
Forecast lead time (hr)
Hurricane project – NOAA/NCEP/EMC


MODEL FORECAST – ALONG TRACK ERRORS (NM)
VERIFICATION FOR HMON
M220: HMONv3
M20G: HMONv3–v16
M20C: HMONv3–v16–codamp9–COAC
M2CH: HMONv3–v16–codamp9–COAC–ocean2+H12
M2HM: HMONv3–v16–codamp9–COAC–ocean2+H12+sma
M2CP: HMONv3–v16–codamp9–COAC–ocean2+smallPGC
M2HP: HMONv3–v16–codamp9–COAC–ocean2+H12+sma
ALONG TRACK ERRORS (NM)
0 20 40 60 80 100
0 12 24 36 48 60 72 84 96 108 120
#CASE 73 73 72 71 71 71 70 67 62 56 49
Forecast lead time (hr)
Hurricane project – NOAA/NCEP/EMC


MODEL FORECAST – CROSS TRACK ERRORS (NM)
VERIFICATION FOR HMON
M220: HMONv3
M20G: HMONv3–v16
M20C: HMONv3–v16–codamp9–COAC
M2CH: HMONv3–v16–codamp9–COAC–ocean2+H12
M2HM: HMONv3–v16–codamp9–COAC–ocean2+H12+sma
M2CP: HMONv3–v16–codamp9–COAC–ocean2+smallPGC
M2HP: HMONv3–v16–codamp9–COAC–ocean2+H12+sma
CROSS TRACK ERRORS (NM)
0 20 40 60 80 100
0 12 24 36 48 60 72 84 96 108 120
#CASE 73 73 72 71 71 71 70 67 62 56 49
Forecast lead time (hr)
Hurricane project – NOAA/NCEP/EMC