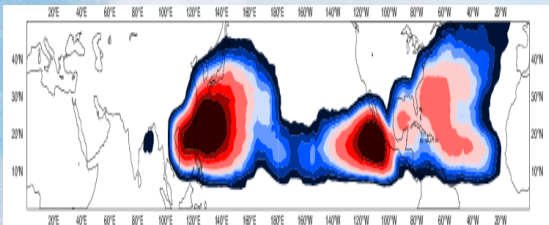


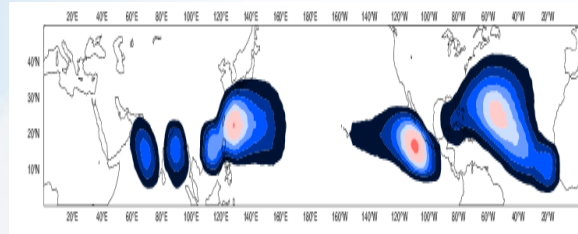
August-Sept-Oct

Tropical Cyclone Climatology Density: ASO 1999-2010

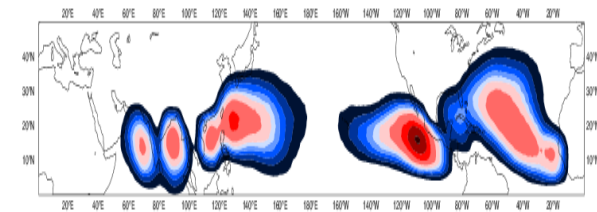
Observations (35 knots)



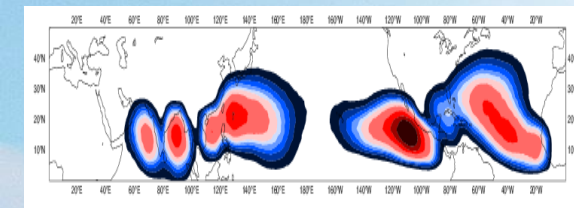
NCEP (35 knots)



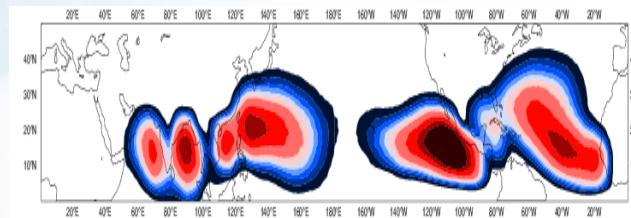
NCEP (30 knots)



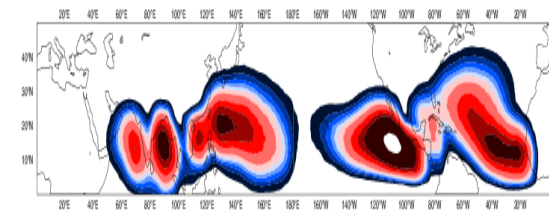
NCEP (28 knots)



NCEP (25 knots)

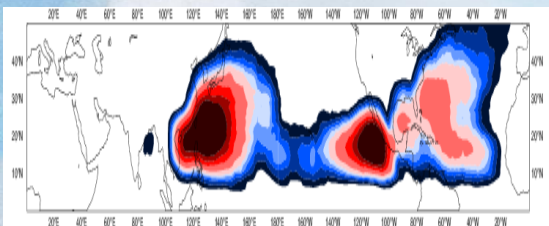


NCEP (20 knots)

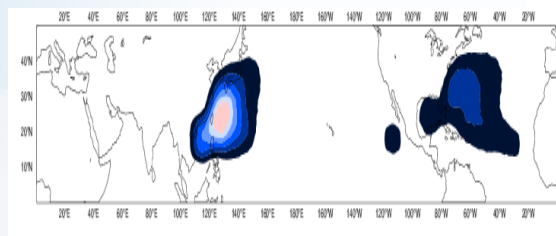


Tropical Cyclone Climatology Density: Jan-May

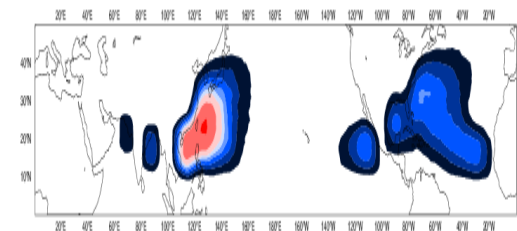
**Observations
(35 knots)**



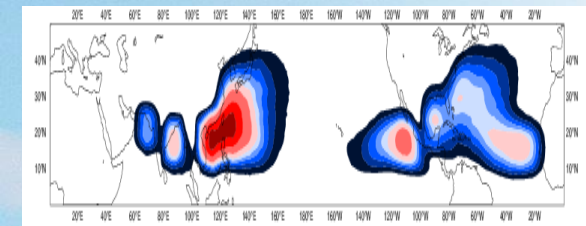
**ECMWF
(35 knots)**



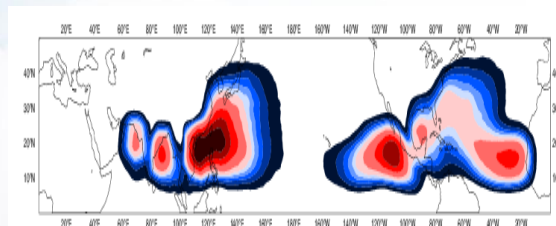
**ECMWF
(30 knots)**



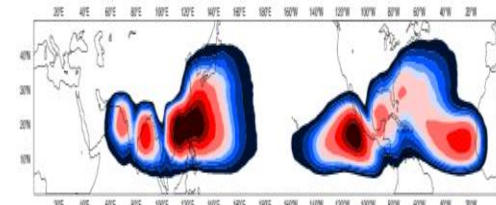
**ECMWF
(25 knots)**



**ECMWF
(20 knots)**



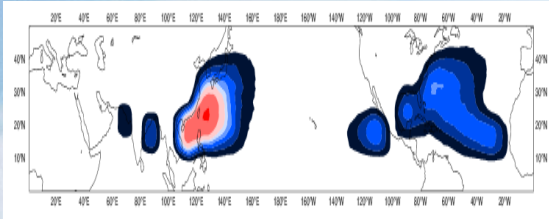
**ECMWF
(15 knots)**



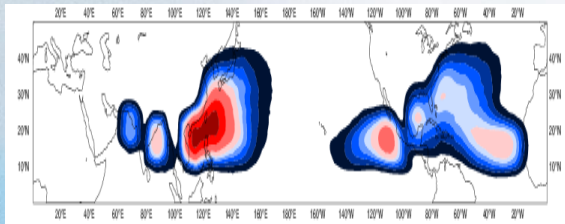
Impact of the model's output resolution - ECMWF

S2S GRID
(1.5 degree resolution)

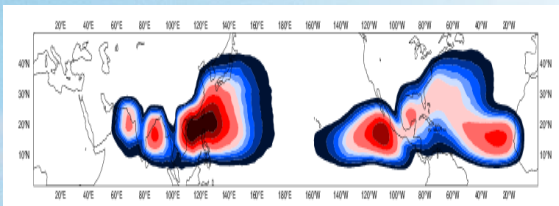
S2S (30 knots)



S2S (25 knots)

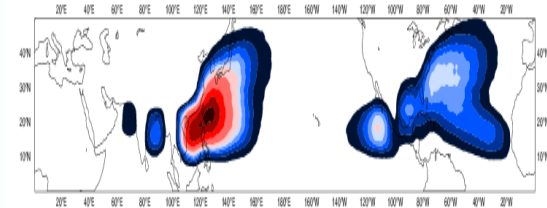


S2S (20 knots)

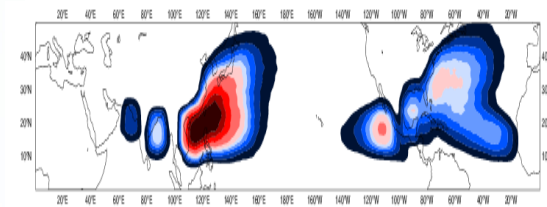


Original GRID
(about 0.5 degree)

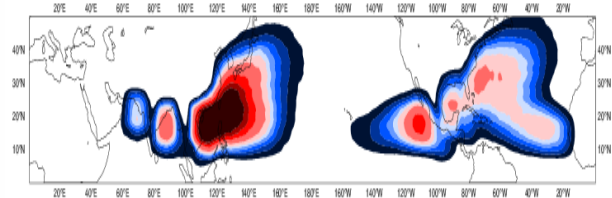
Oper (35 knots)



Oper (33 knots)

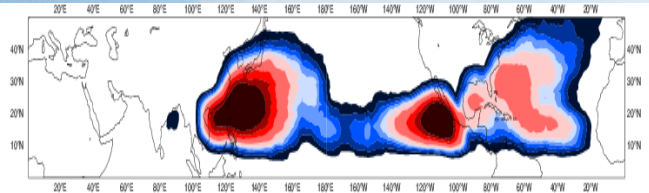


Oper (30 knots)

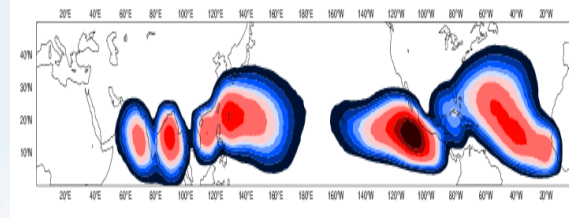


TC CLIMATOLOGY

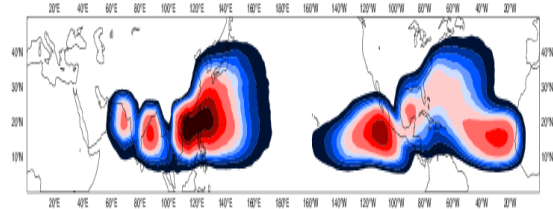
OBS



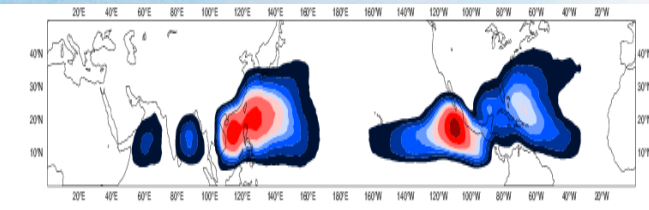
NCEP (28 knots)



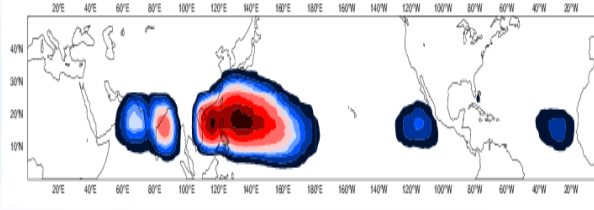
ECMWF (20 knots)



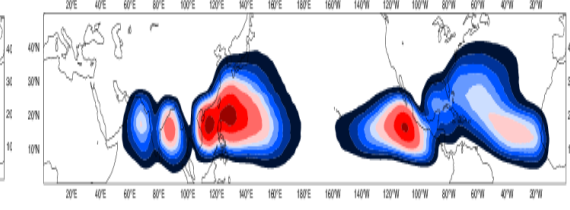
JMA (20 knots)



BoM (20 knots)



Multi



Tropical Cyclone Density

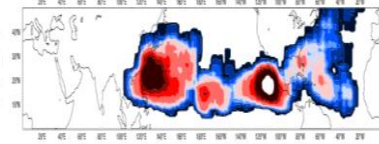
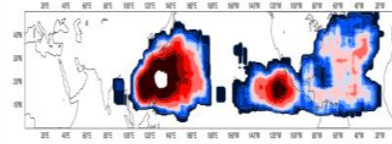
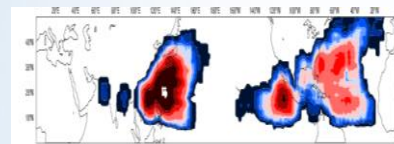
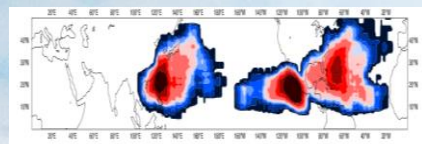
**MJO
Phase 2-3**

**MJO
Phase 4-5**

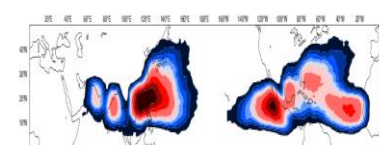
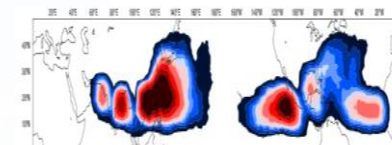
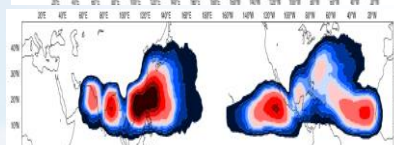
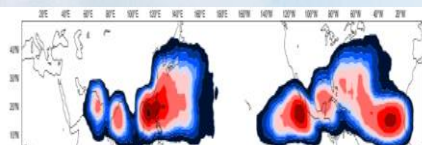
**MJO
Phase 6-7**

**MJO
Phase 8-1**

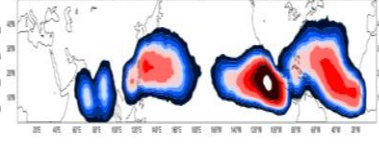
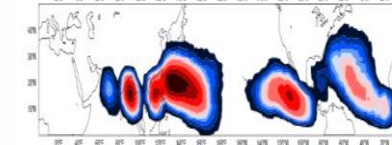
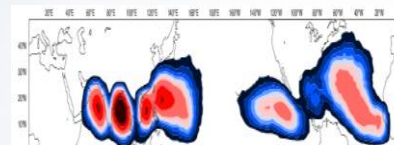
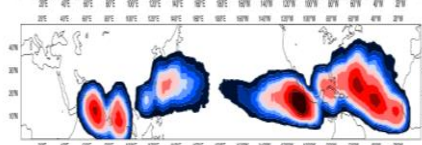
OBS



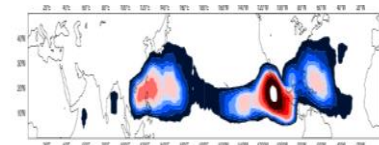
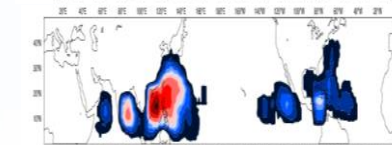
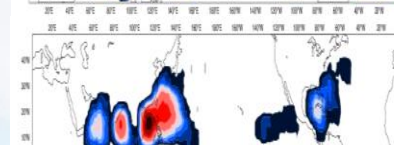
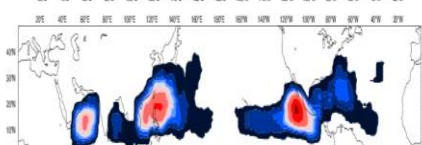
ECMWF



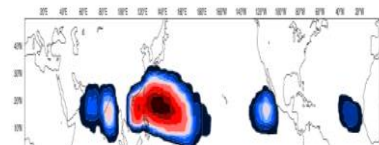
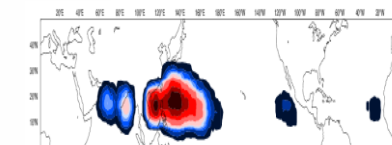
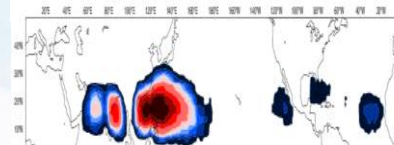
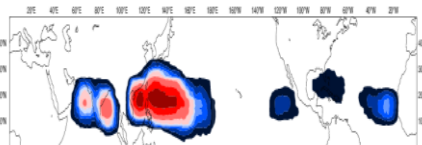
NCEP



JMA



BoM



Multi



Tropical Cyclone Density Anomaly

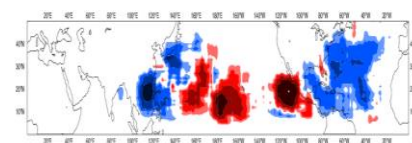
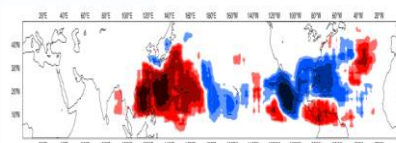
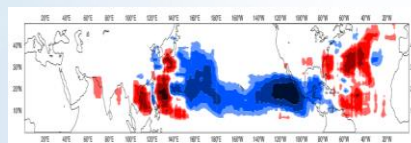
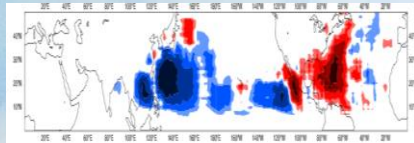
**MJO
Phase 2-3**

**MJO
Phase 4-5**

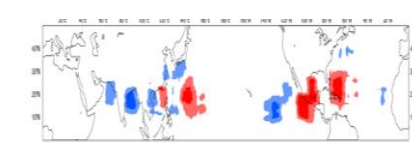
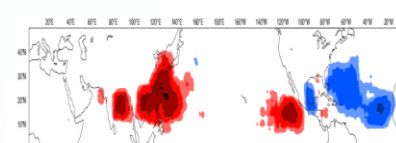
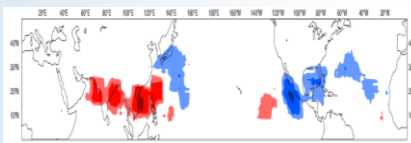
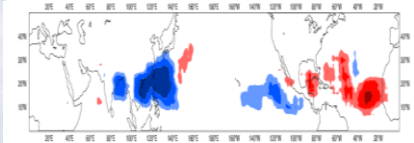
**MJO
Phase 6-7**

**MJO
Phase 8-1**

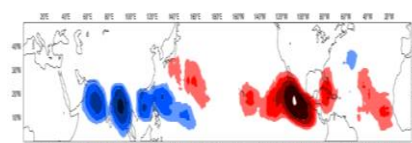
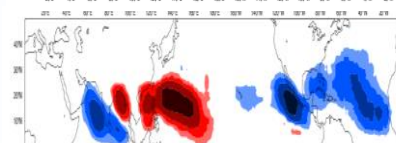
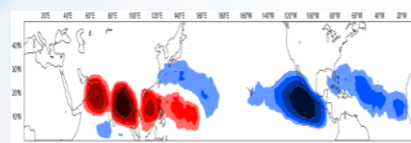
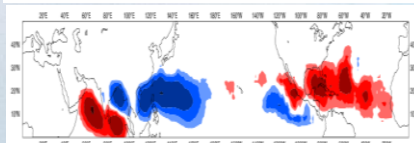
OBS



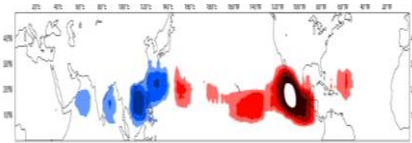
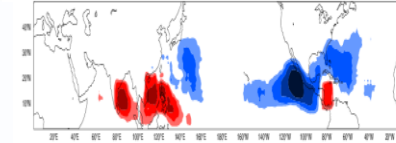
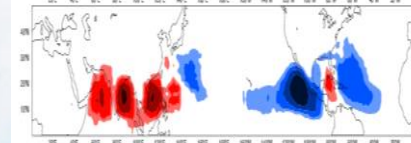
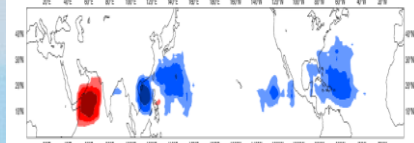
ECMWF



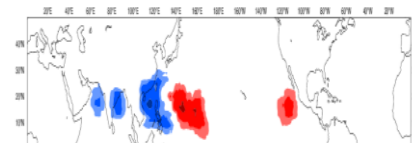
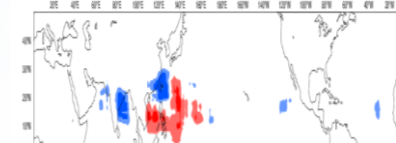
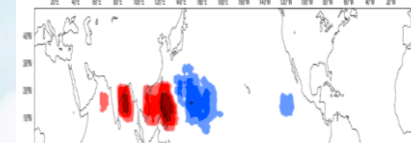
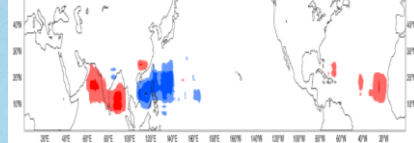
NCEP



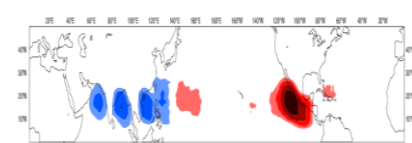
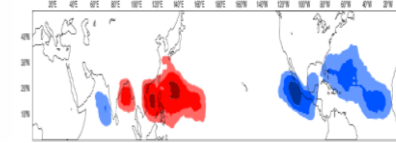
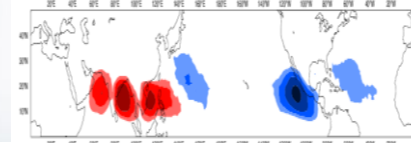
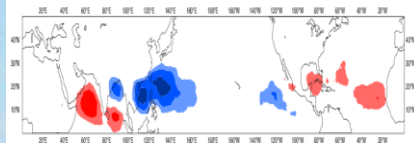
JMA



BoM



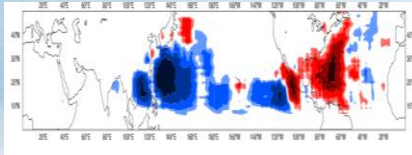
Multi



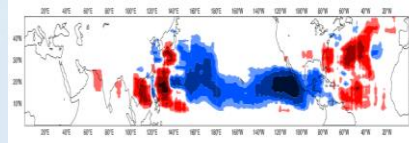
Tropical Cyclone Density Anomaly

OBS

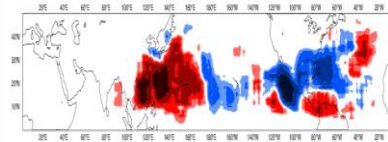
MJO
Phase 2-3



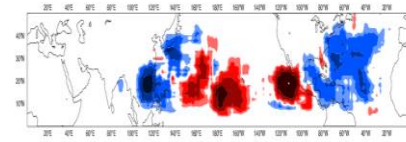
MJO
Phase 4-5



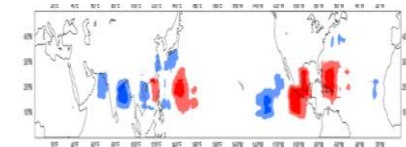
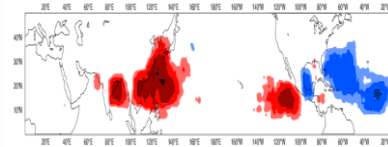
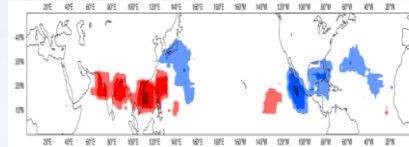
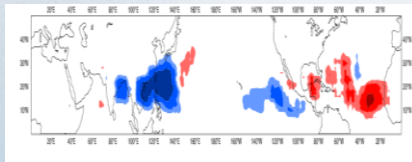
MJO
Phase 6-7



MJO
Phase 8-1



ECMWF S2S (20 knots)



ECMWF OPER (30 knots)

