

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 05-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.88(-0.57)	14.79(4.77)	2.54(1.41)
48 Hour	2.08(-0.35)	16.92(4.11)	3.15(1.72)
72 Hour	2.28(-0.10)	17.65(3.07)	3.50(2.07)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 06-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.95(-0.64)	15.20(4.44)	2.52(1.28)
48 Hour	2.24(-0.46)	16.89(3.20)	2.94(1.66)
72 Hour	2.60(-0.34)	19.18(3.44)	3.44(1.85)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 07-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.93(-0.63)	14.04(5.30)	2.53(1.37)
48 Hour	2.42(-0.32)	17.89(4.57)	3.23(1.70)
72 Hour	2.49(-0.20)	17.51(4.00)	3.33(2.00)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 08-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.82(-0.48)	14.16(6.45)	2.51(1.31)
48 Hour	2.16(-0.11)	16.17(5.31)	2.86(1.71)
72 Hour	2.68(0.10)	18.83(4.70)	2.80(1.87)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 09-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.79(-0.71)	14.01(5.51)	2.32(1.17)
48 Hour	2.32(-0.35)	17.34(5.12)	2.58(1.71)
72 Hour	2.66(-0.22)	18.99(4.15)	2.76(1.82)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 10-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.97(-0.91)	15.81(5.43)	2.25(1.10)
48 Hour	2.45(-0.56)	17.98(5.78)	2.53(1.21)
72 Hour	2.39(-0.42)	19.97(5.63)	3.53(1.32)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 11-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.84(-0.83)	15.84(6.73)	2.17(1.03)
48 Hour	2.60(-0.47)	20.26(5.84)	2.83(1.23)
72 Hour	3.11(-0.17)	20.48(6.55)	2.79(1.33)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 12-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.75(-0.59)	15.61(6.25)	2.48(1.13)
48 Hour	3.04(-0.57)	22.28(4.33)	2.43(1.25)
72 Hour	3.28(-0.04)	25.00(5.90)	2.72(1.61)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 18-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.97(-0.72)	15.49(1.96)	2.34(1.23)
48 Hour	2.57(-0.49)	19.93(0.96)	2.84(1.42)
72 Hour	3.81(-0.49)	22.70(-0.07)	3.52(1.65)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 23-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.94(-0.82)	17.13(7.72)	2.13(1.16)
48 Hour	1.95(-0.48)	18.69(6.67)	2.43(1.32)
72 Hour	2.74(-0.29)	19.56(6.42)	2.88(1.54)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 24-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.96(-0.87)	16.13(6.95)	2.14(1.12)
48 Hour	2.55(-0.32)	17.80(7.46)	2.51(1.26)
72 Hour	3.17(-0.22)	19.20(5.36)	3.28(1.49)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 25-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	2.04(-0.83)	15.48(4.83)	2.18(1.07)
48 Hour	2.59(-0.51)	18.31(5.53)	2.84(1.21)
72 Hour	3.21(0.03)	21.04(5.05)	4.24(1.62)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 26-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.98(-0.75)	15.38(5.44)	2.30(1.09)
48 Hour	2.37(-0.47)	17.30(5.20)	3.38(1.40)
72 Hour	3.85(-0.25)	22.82(4.69)	4.05(1.71)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 27-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.94(-0.76)	16.01(6.26)	2.65(1.38)
48 Hour	3.43(-0.32)	22.07(4.10)	3.31(1.71)
72 Hour	3.71(-0.07)	23.97(4.05)	3.09(2.21)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 28-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	2.08(-0.55)	16.55(5.17)	2.91(1.40)
48 Hour	2.71(-0.21)	22.25(5.41)	2.62(1.65)
72 Hour	2.67(-0.15)	21.71(3.58)	2.98(2.07)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 29-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

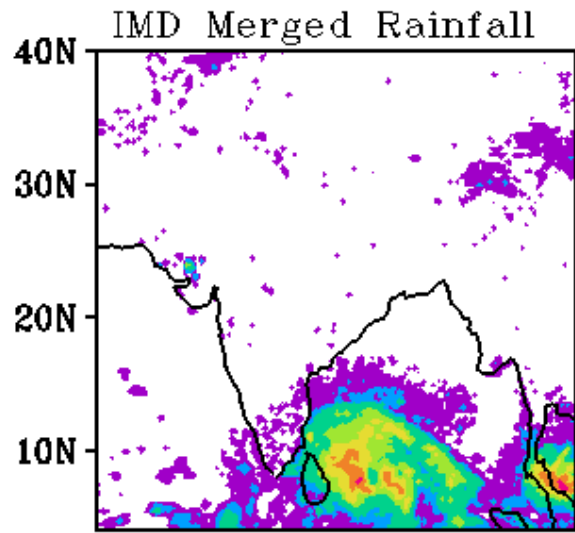
Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	2.20(-0.99)	16.78(3.49)	2.13(1.05)
48 Hour	2.37(-0.42)	18.23(1.97)	2.60(1.23)
72 Hour	2.56(0.06)	19.71(1.56)	3.46(1.56)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 30-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

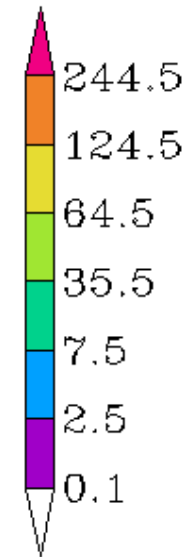
Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	2.04(-0.52)	15.21(3.55)	2.21(1.20)
48 Hour	2.30(-0.41)	17.95(2.29)	3.14(1.30)
72 Hour	2.61(0.05)	19.26(1.71)	3.20(1.55)

**Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 31-12-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km**

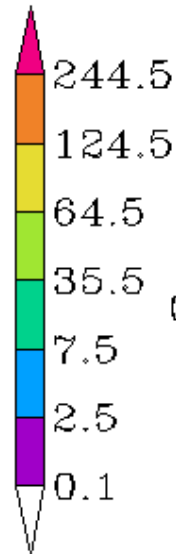
Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	2.00(-0.56)	14.66(3.55)	2.31(1.24)
48 Hour	2.51(-0.22)	16.21(3.11)	2.95(1.54)
72 Hour	2.95(-0.23)	20.30(2.23)	3.03(1.68)



WRF Rainfall 24h FC



WRF-IMD Rainfall

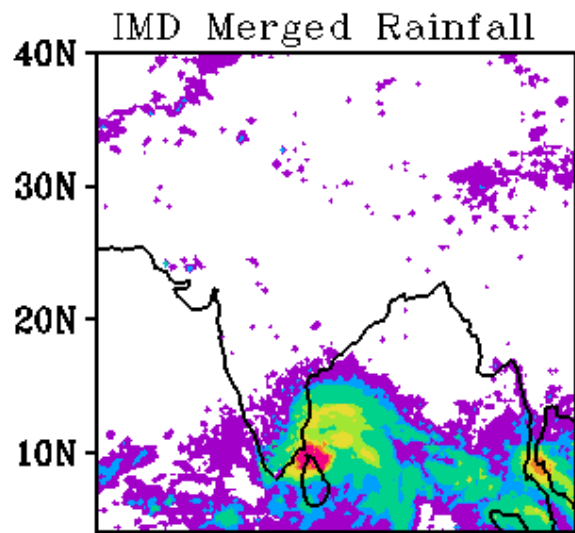


WRF Start Time

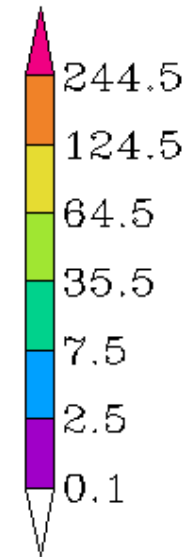
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Forecast Period

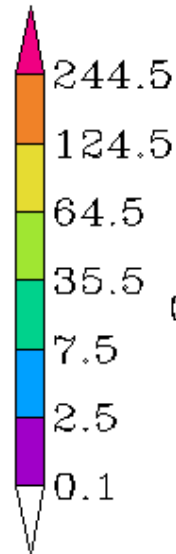
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WRF Rainfall 48h FC



WRF-IMD Rainfall

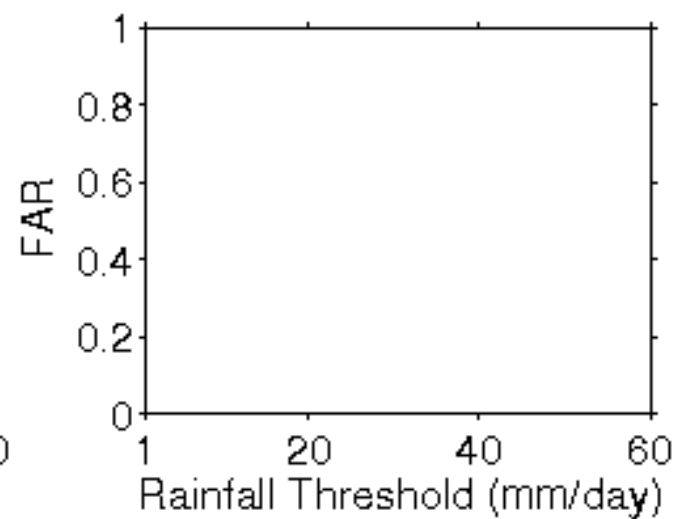
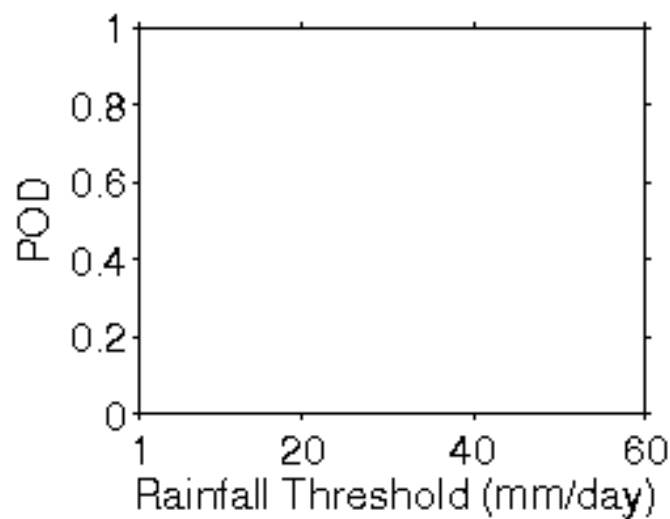
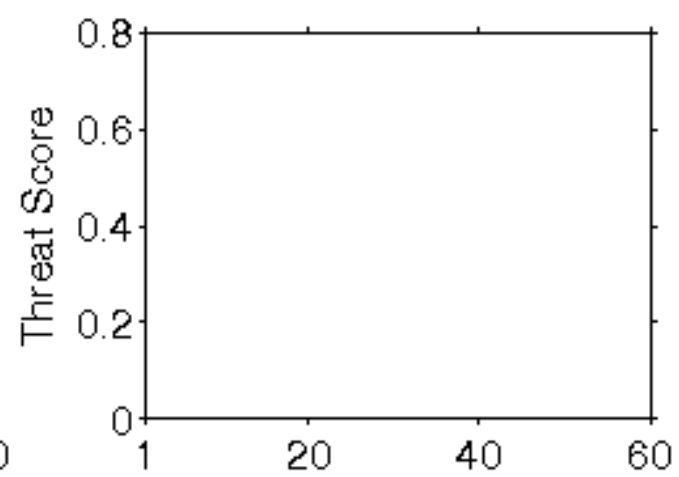
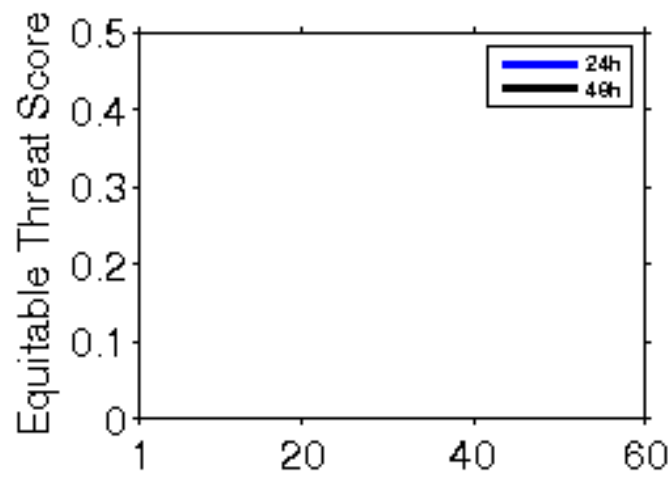


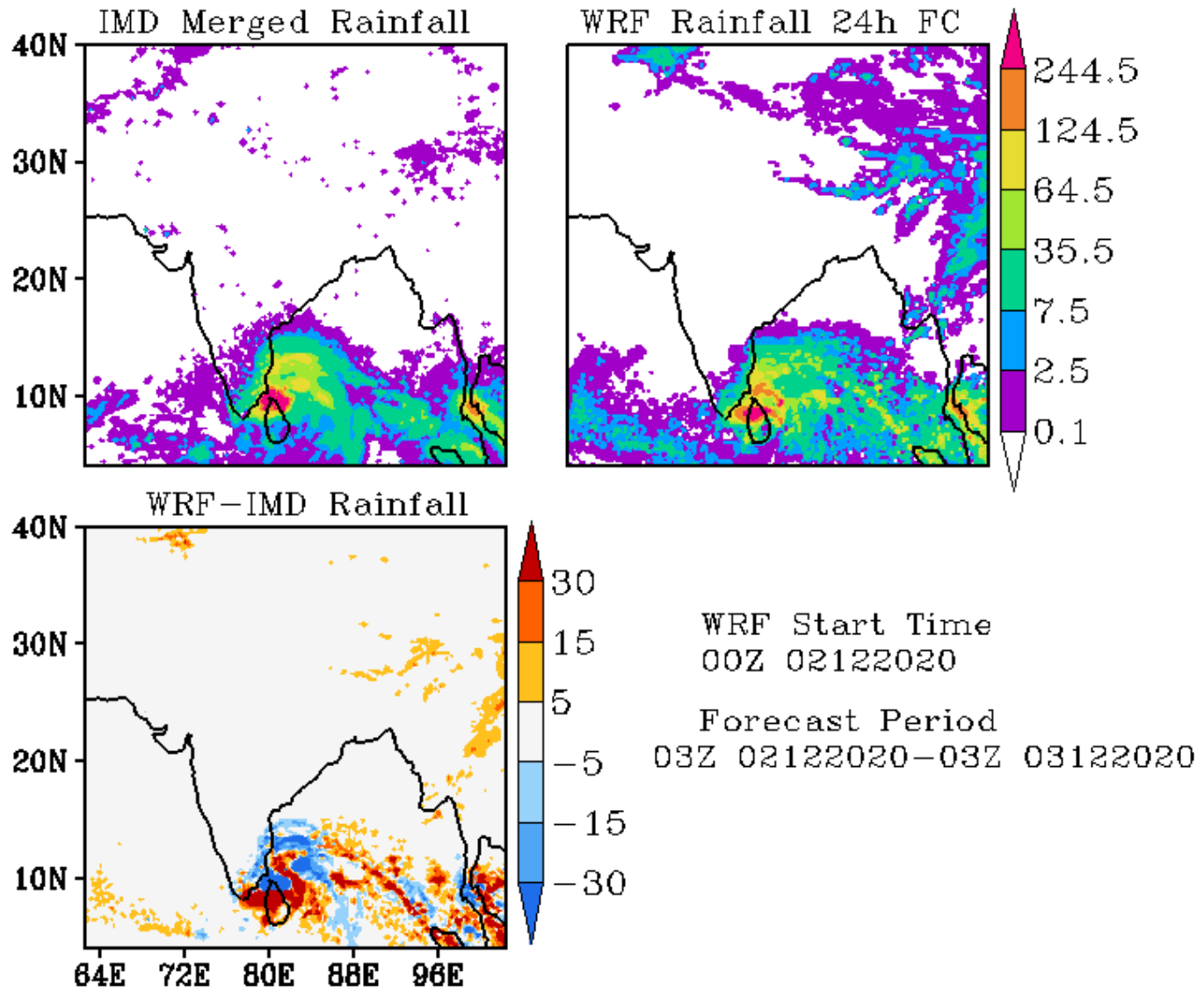
WRF Start Time

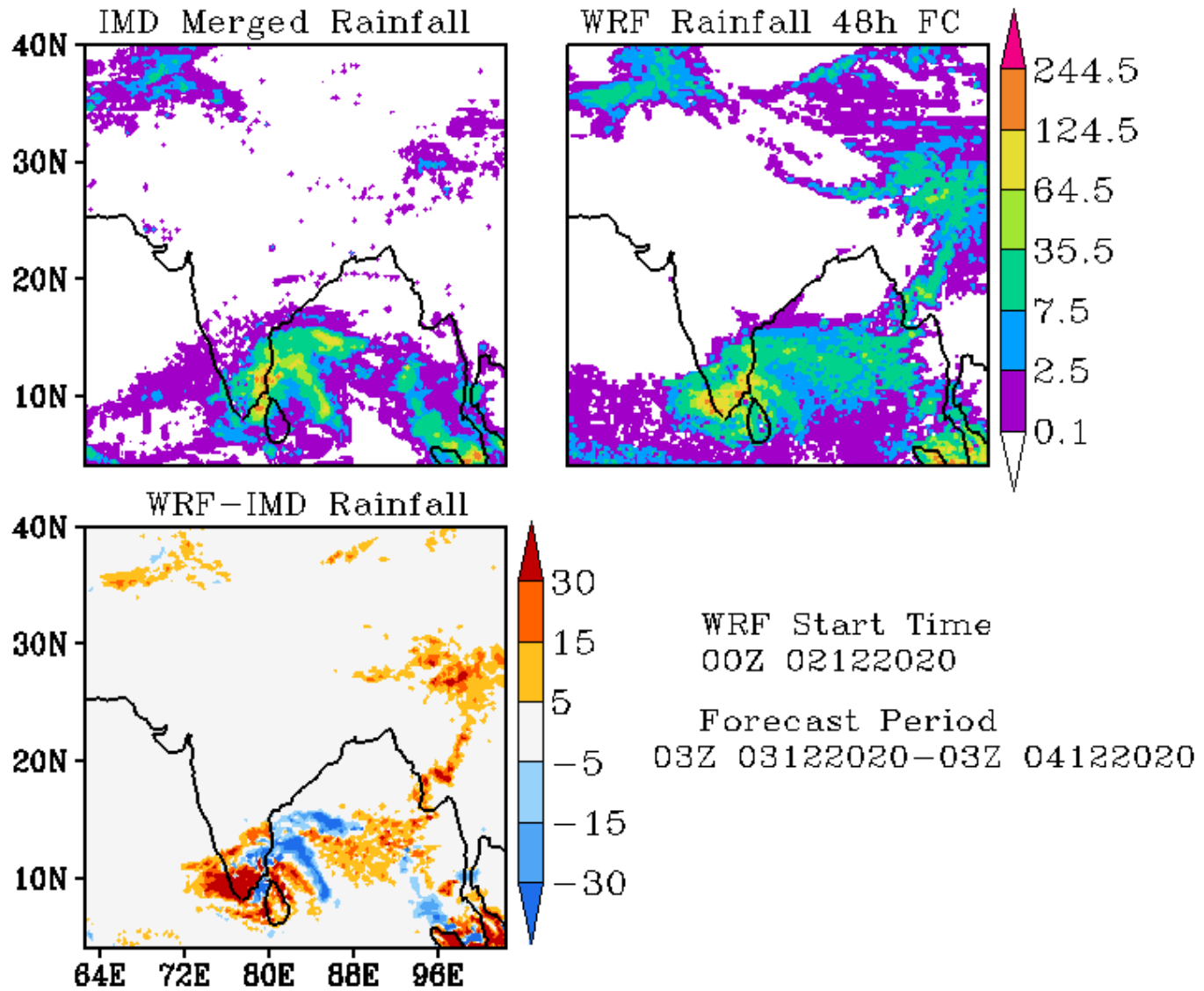
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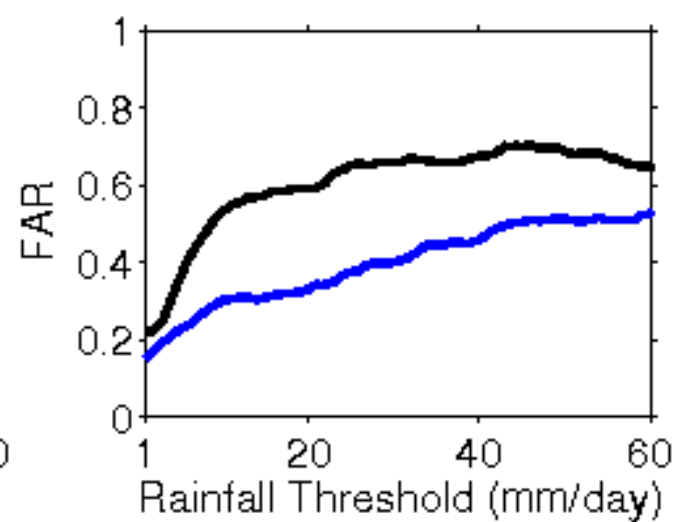
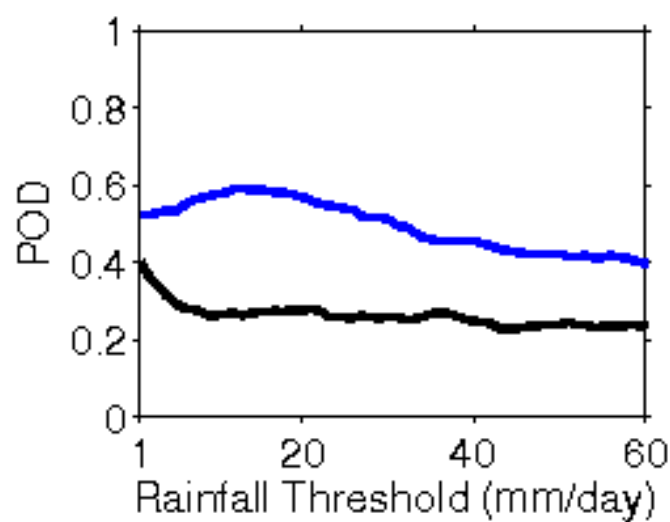
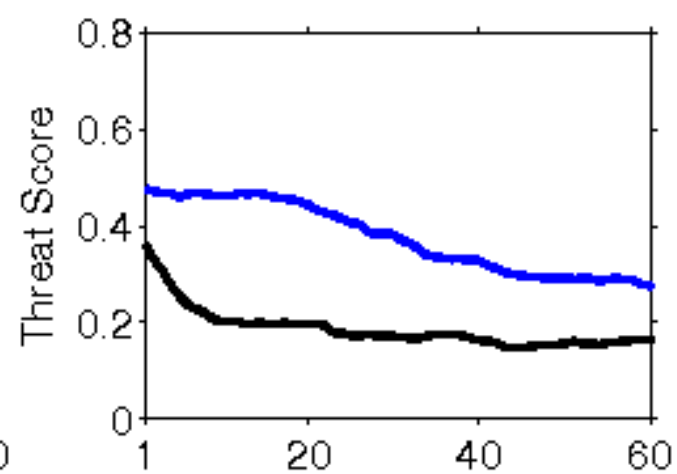
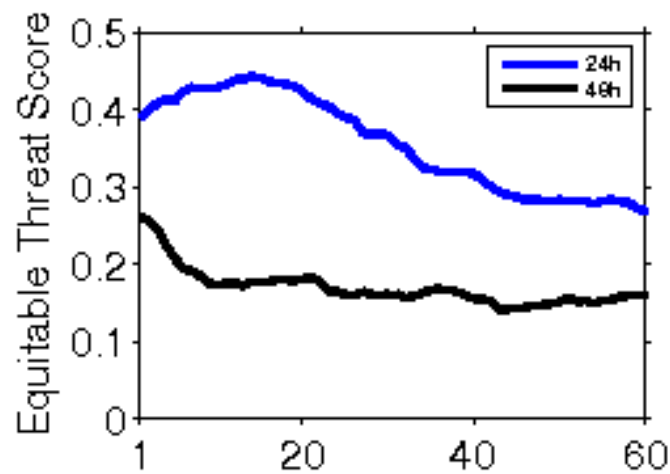
Forecast Period

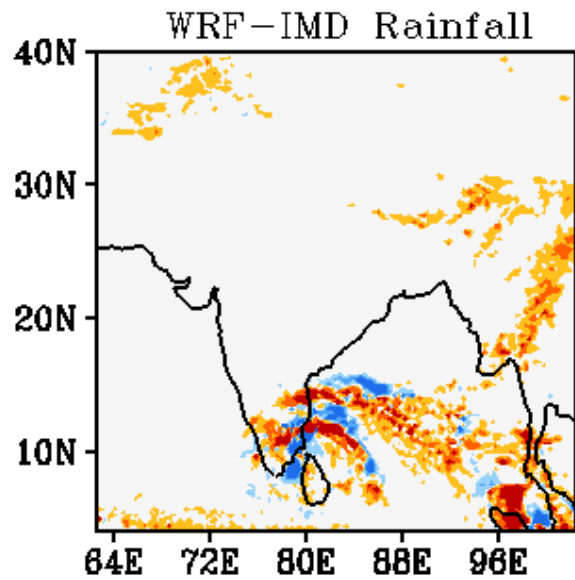
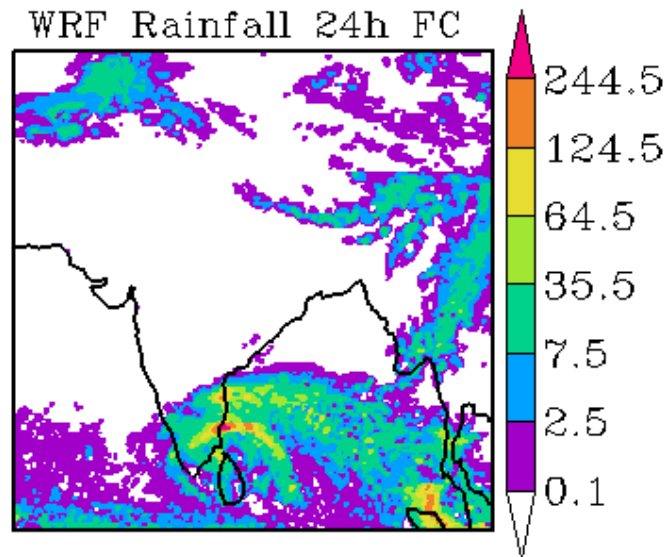
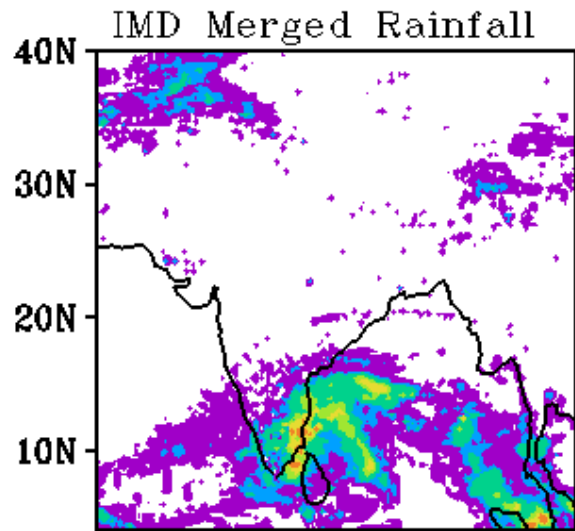
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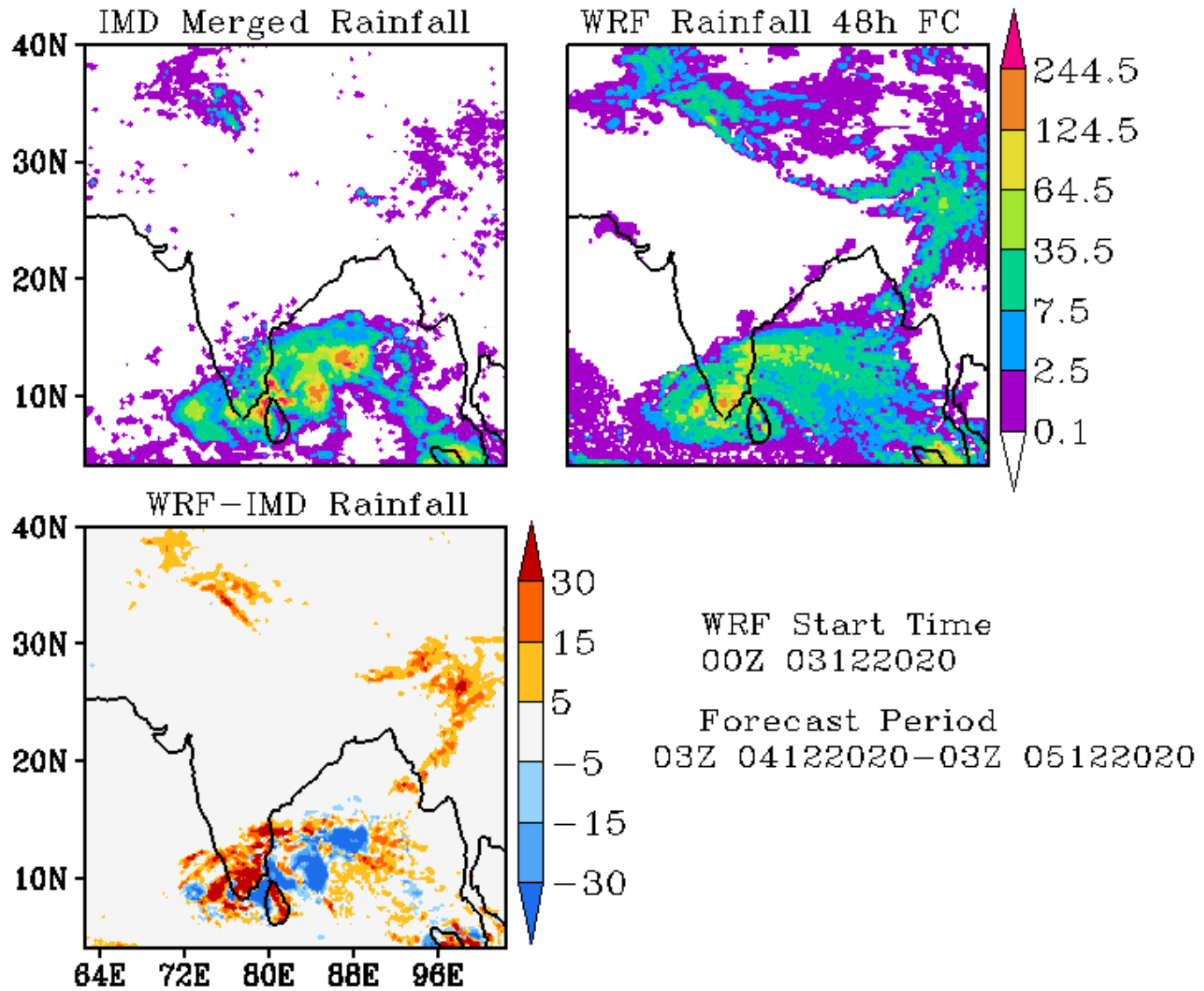


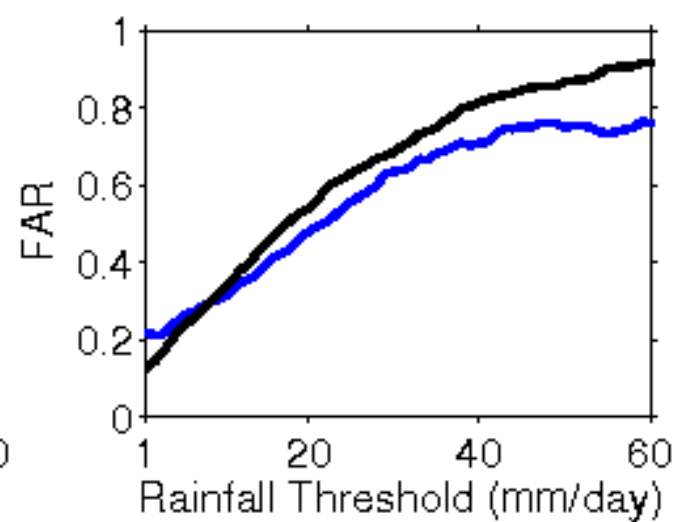
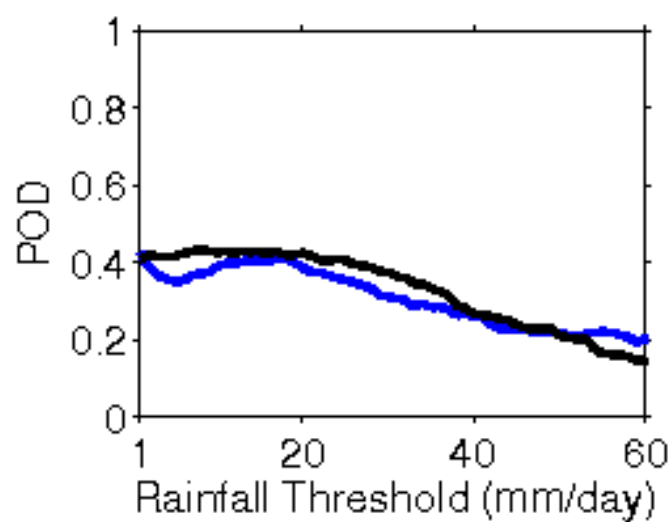
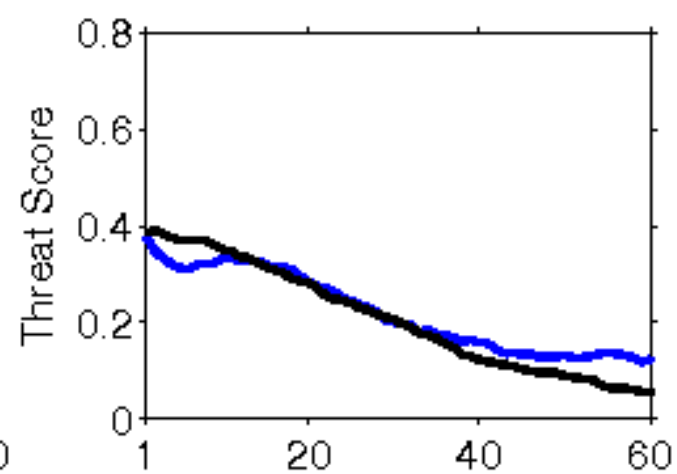
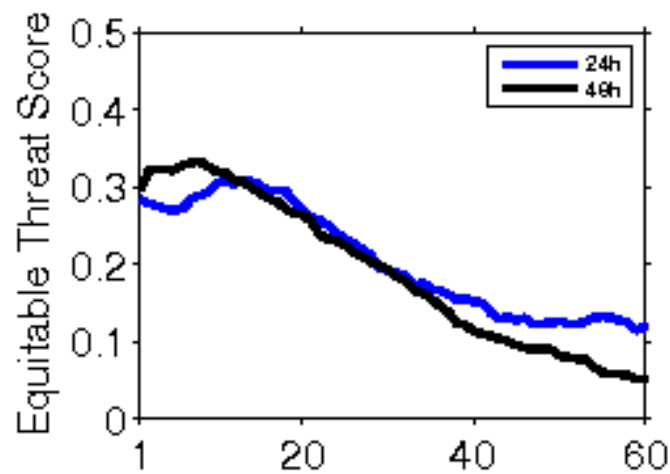


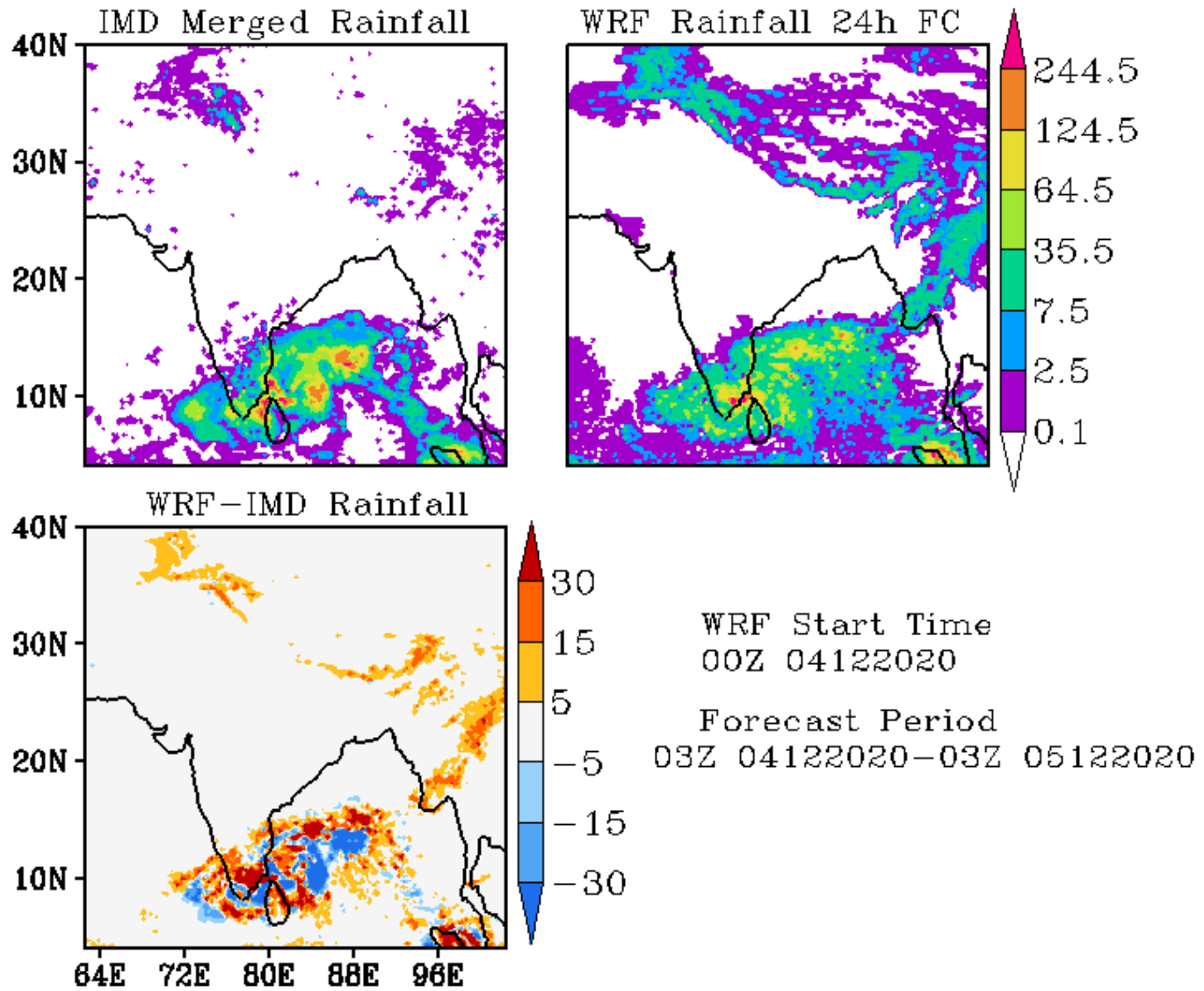


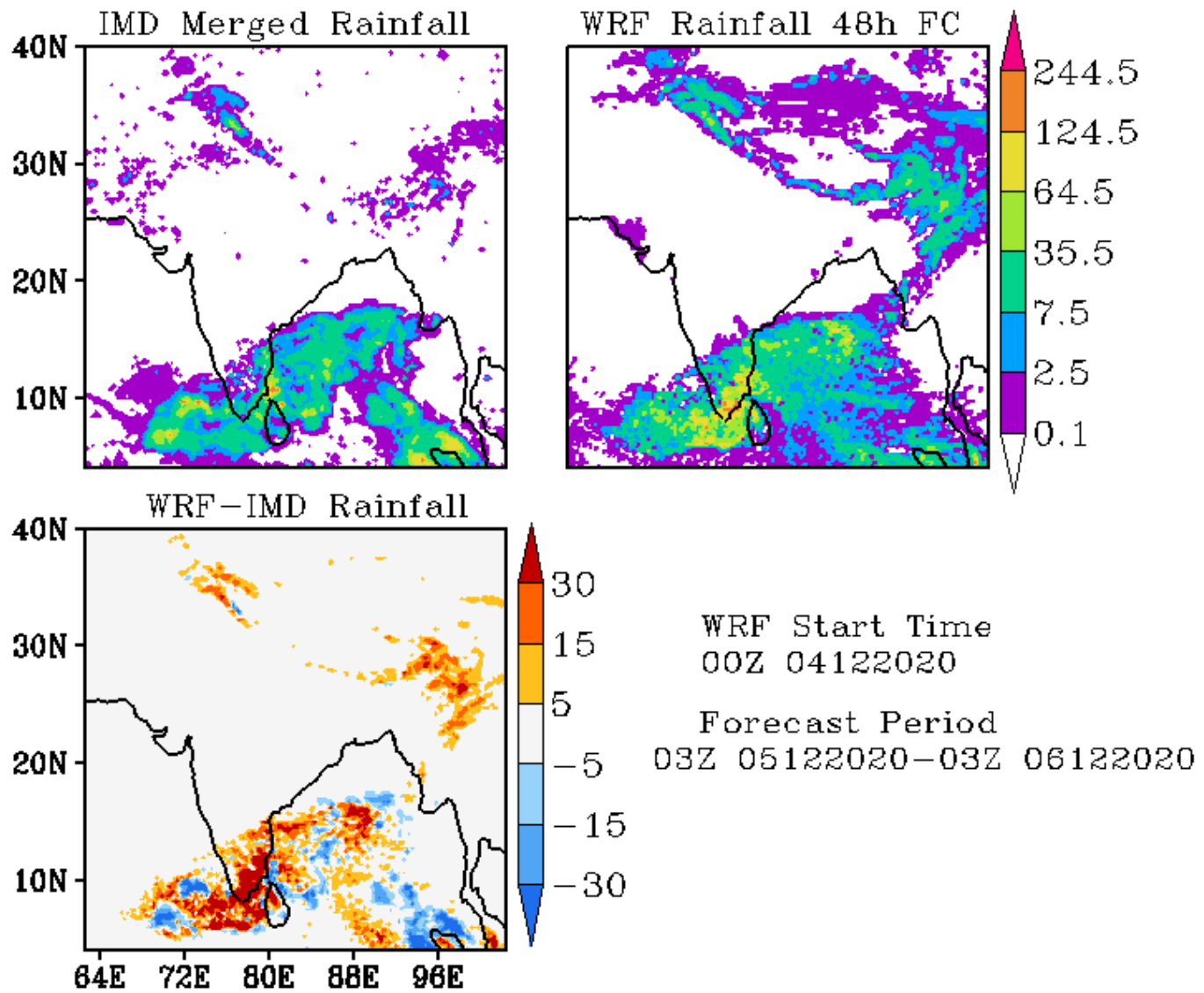
WRF Start Time
00Z 03122020

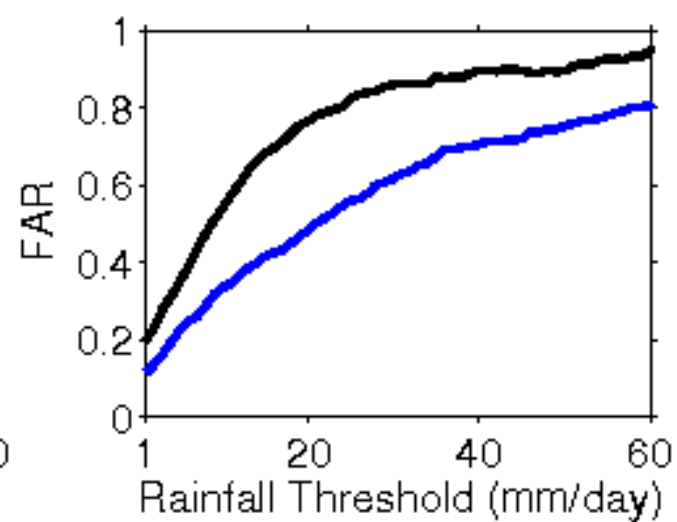
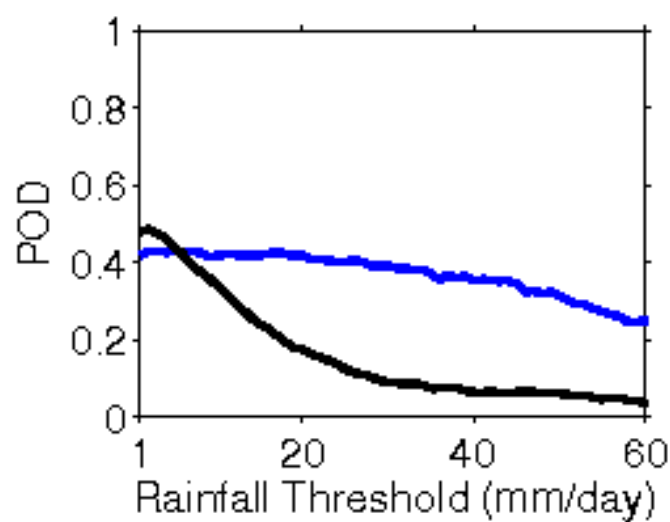
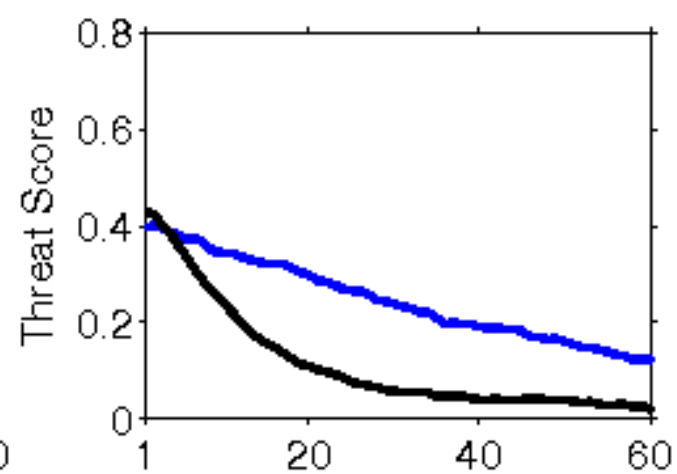
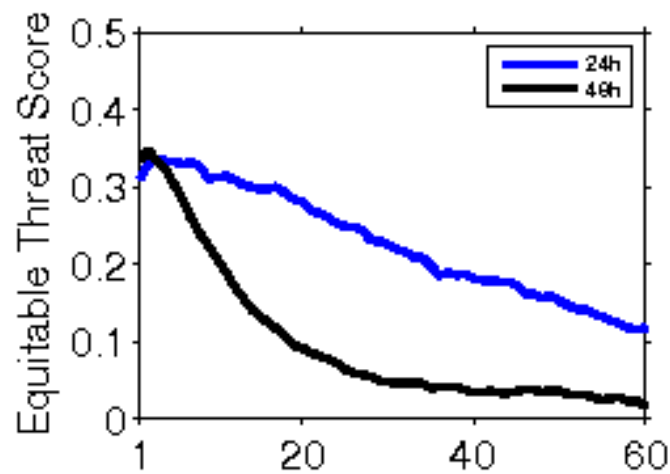
Forecast Period
03Z 03122020-03Z 04122020

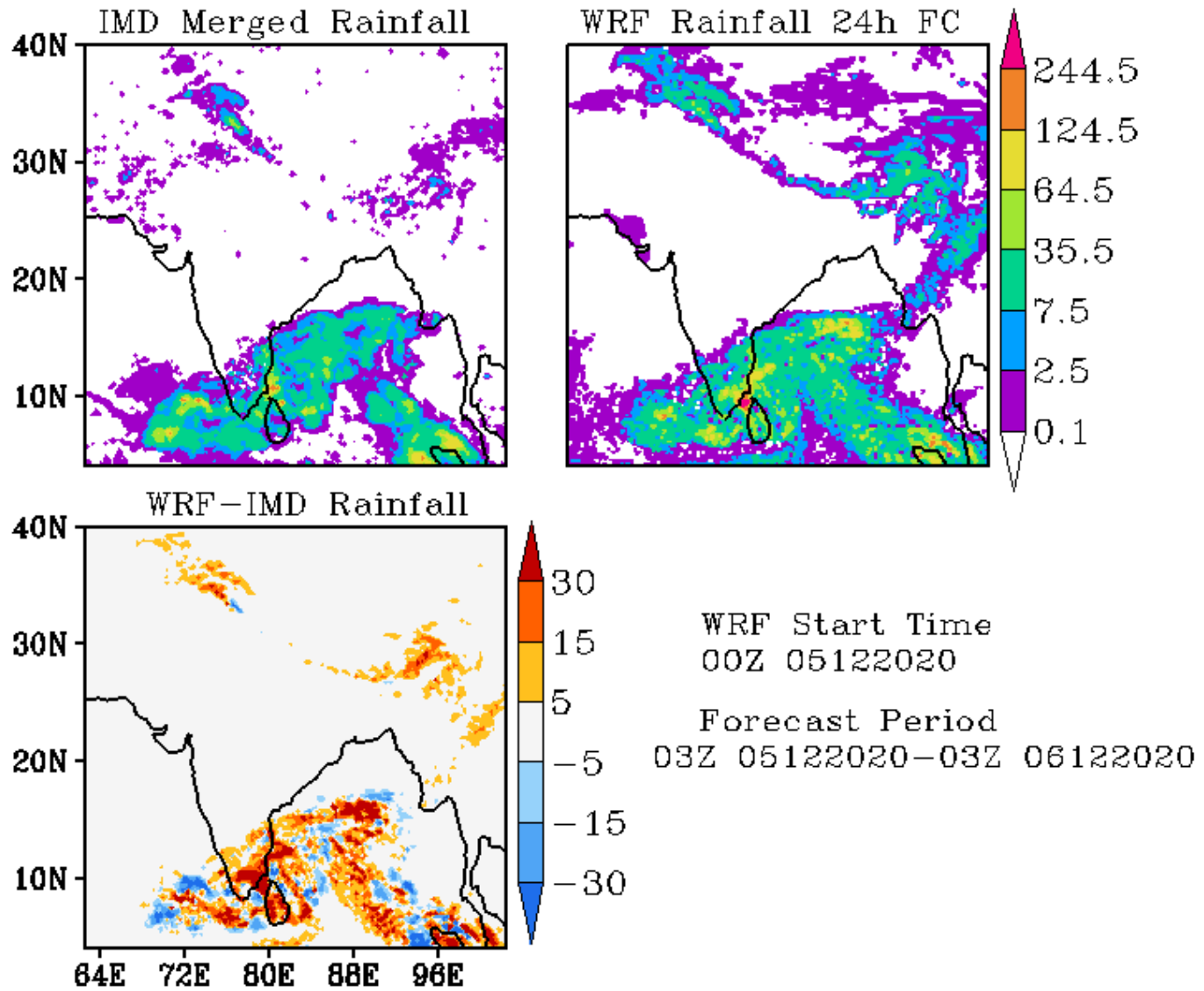


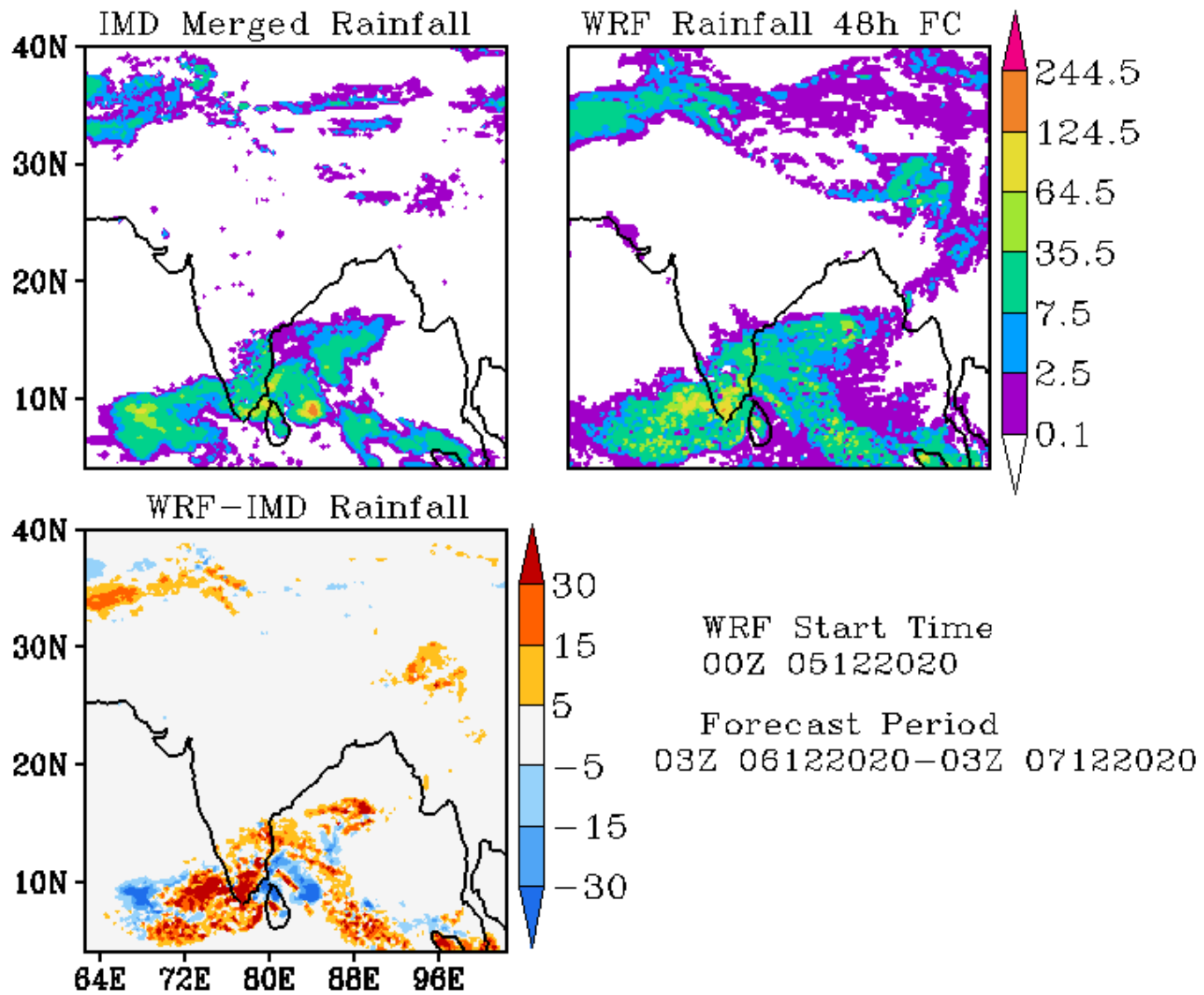


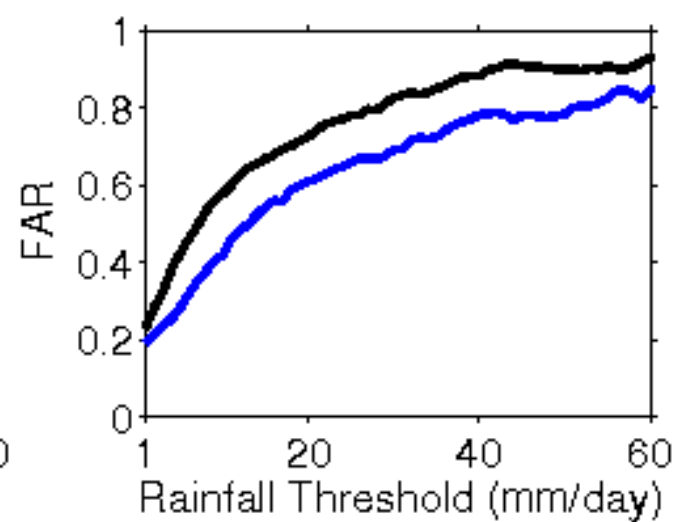
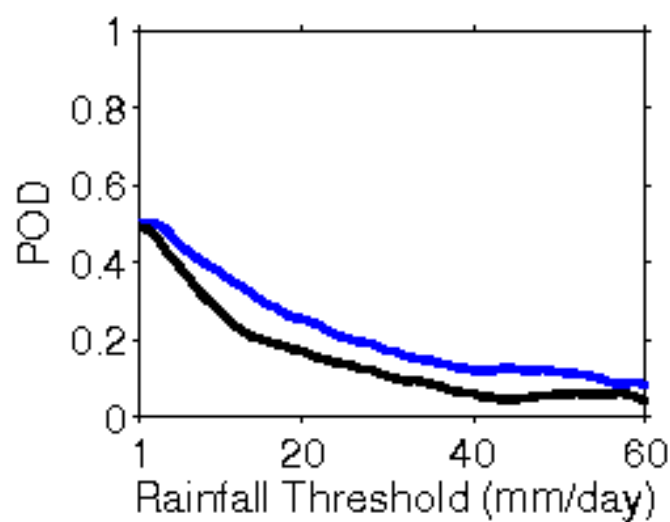
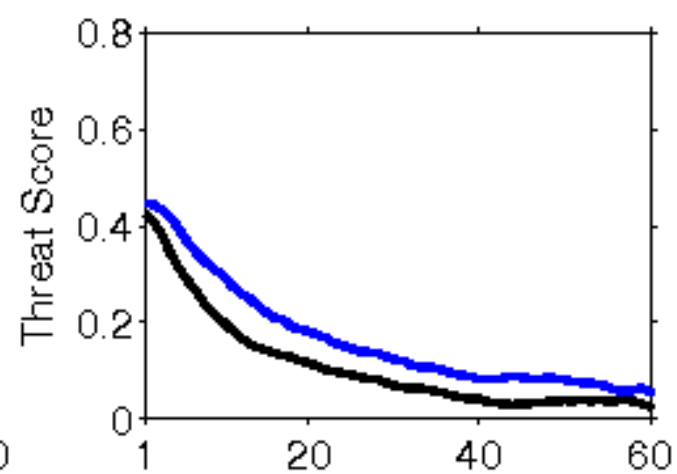
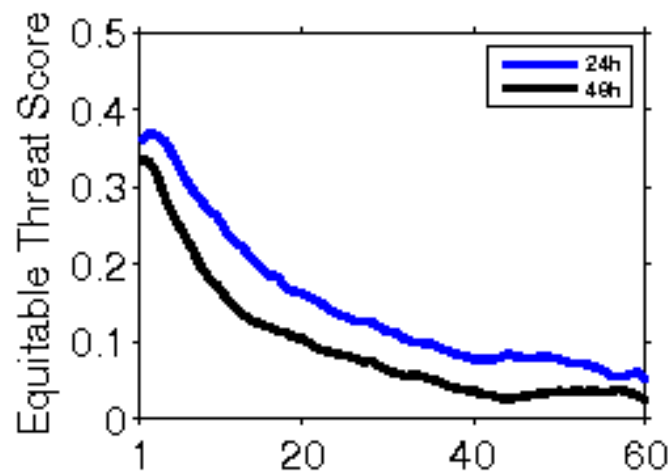


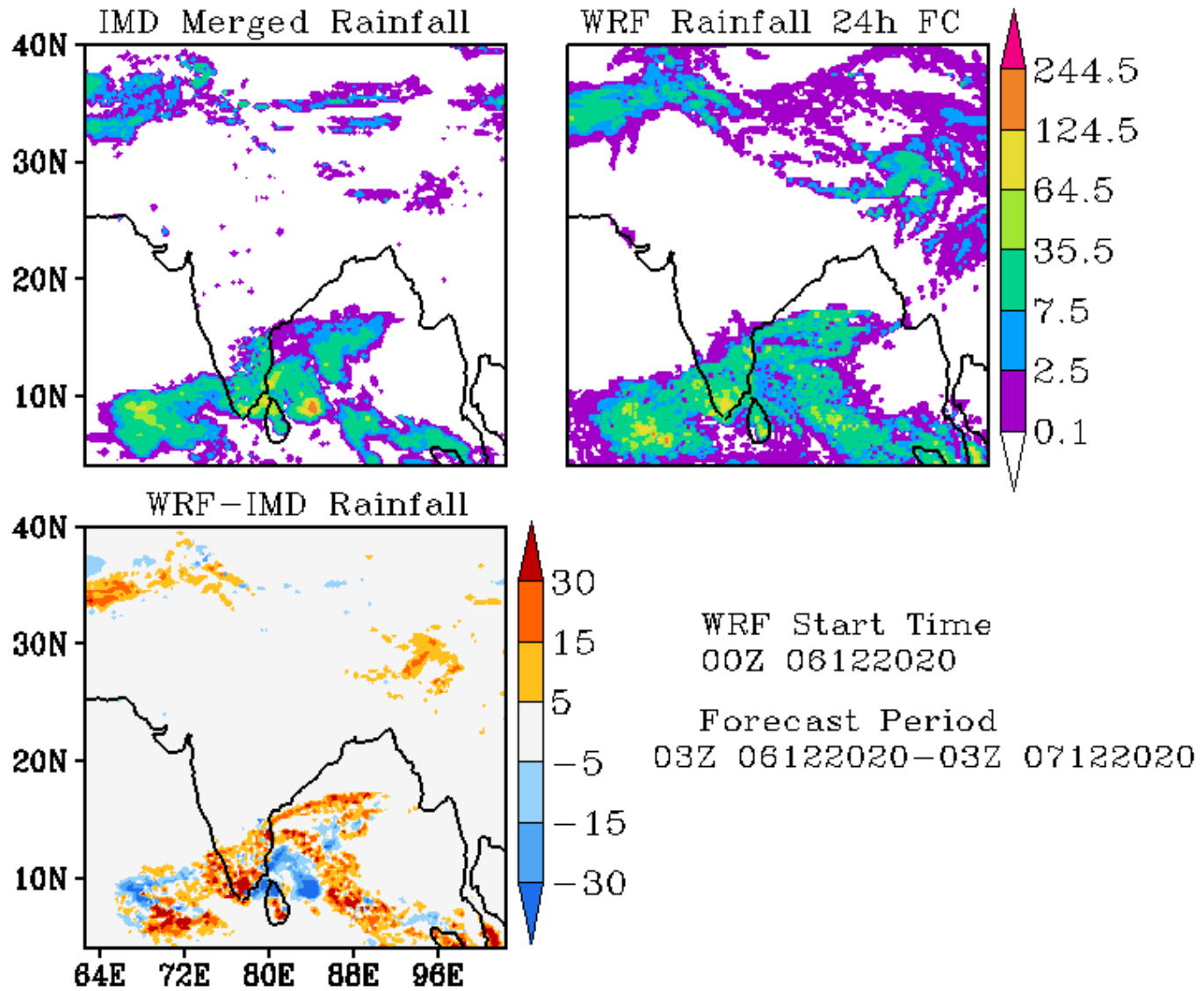


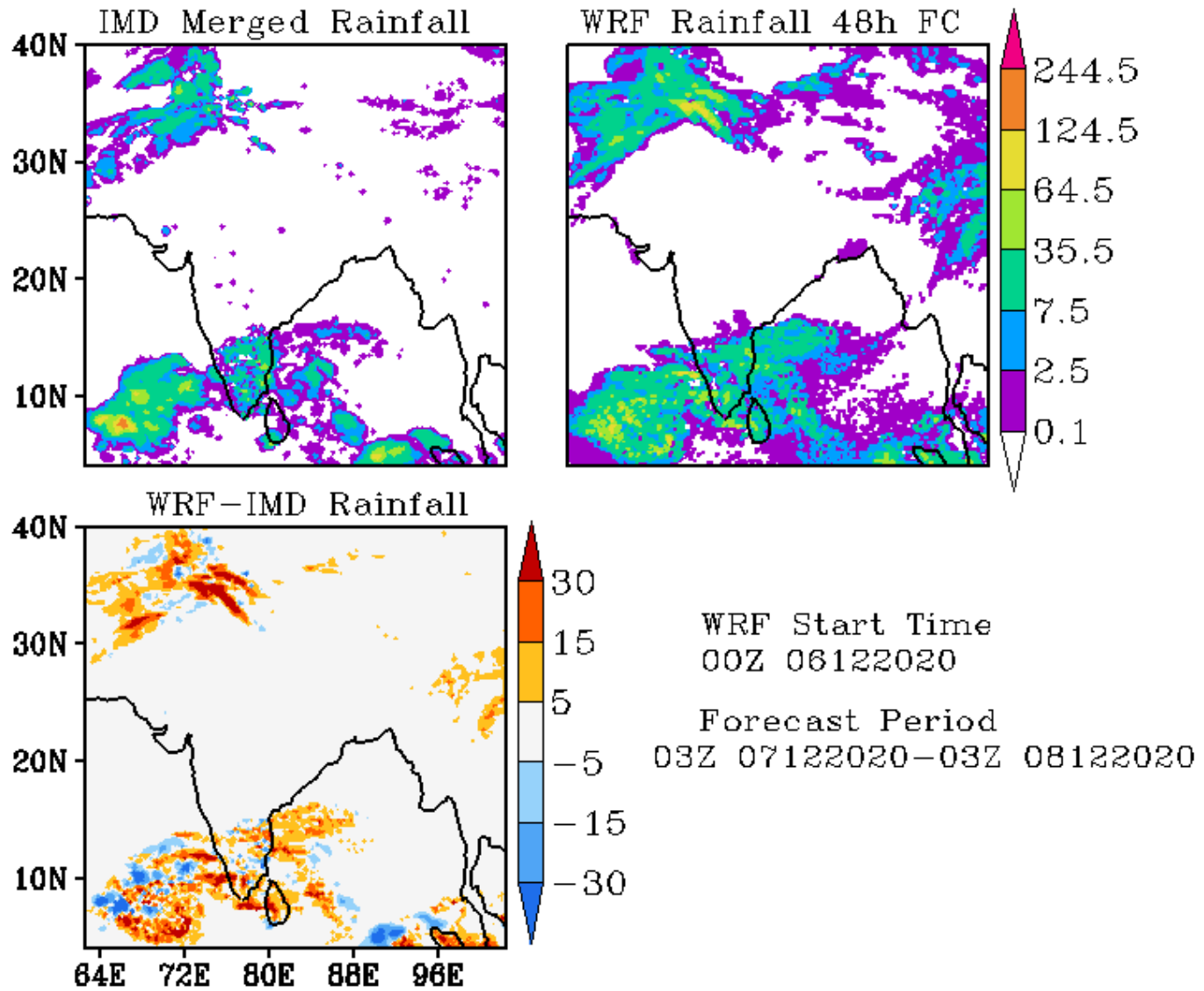


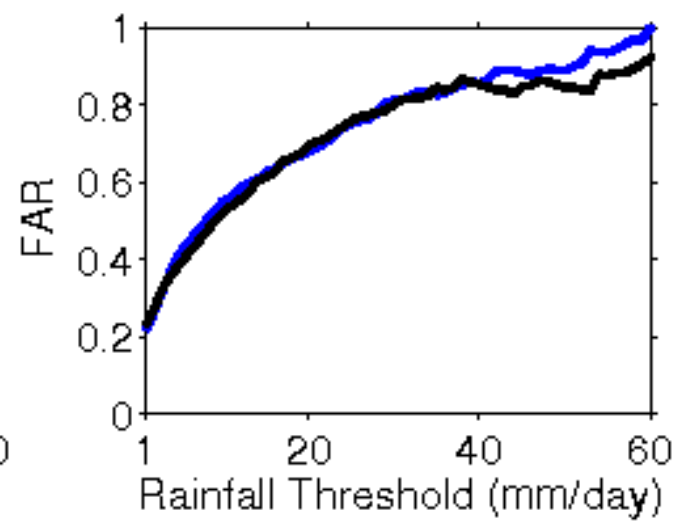
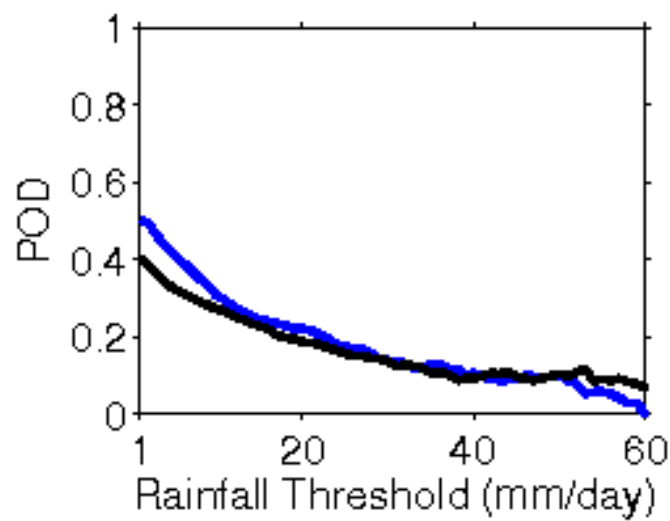
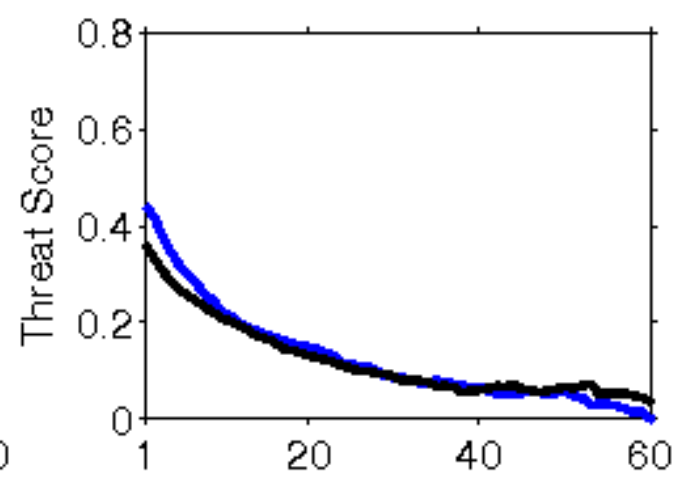
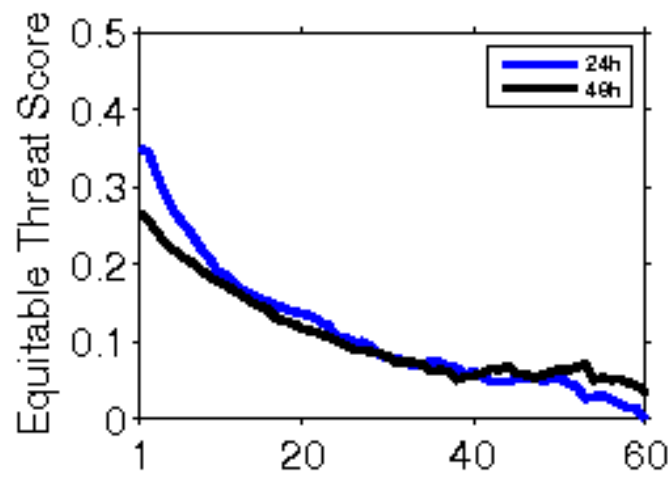


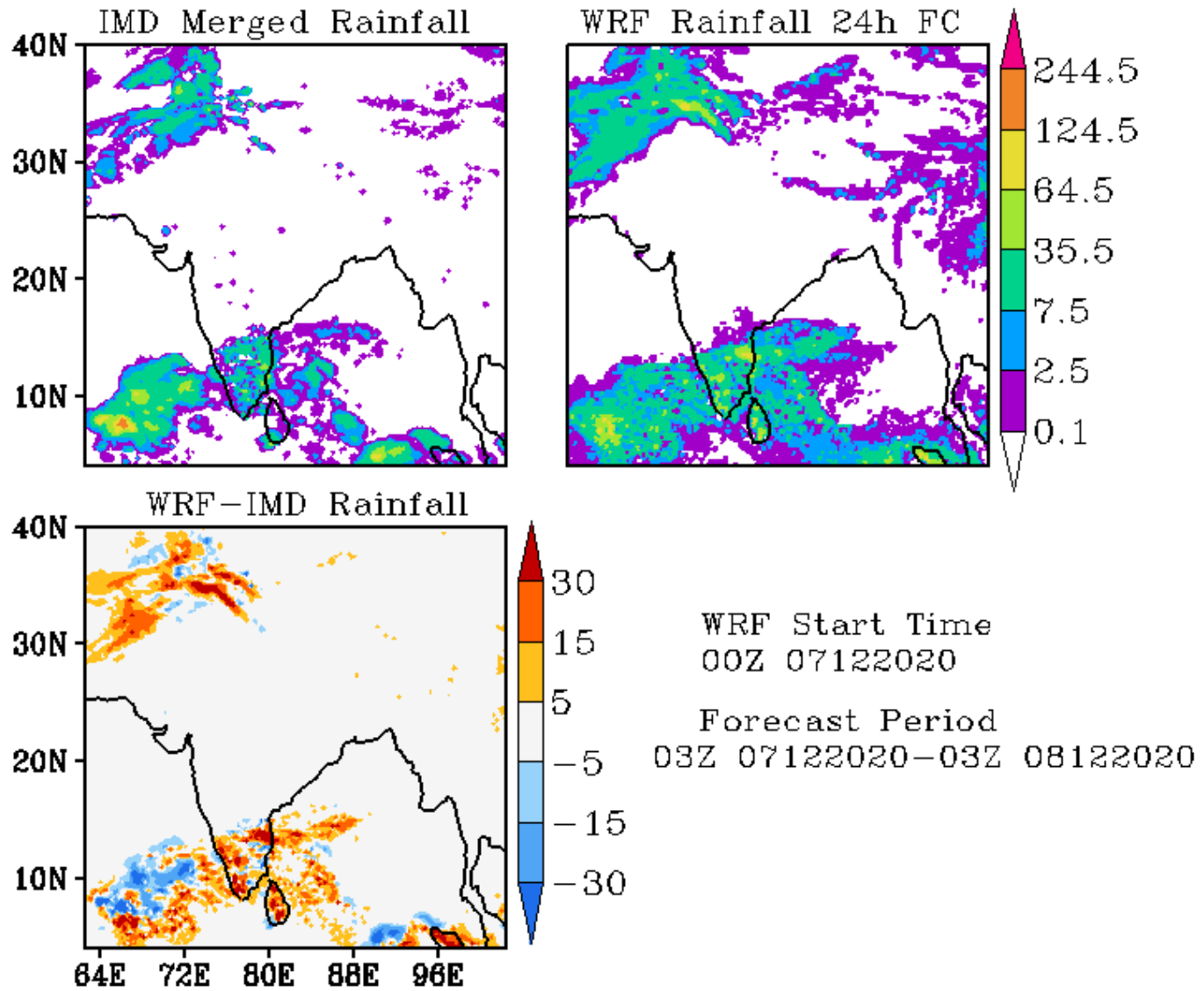


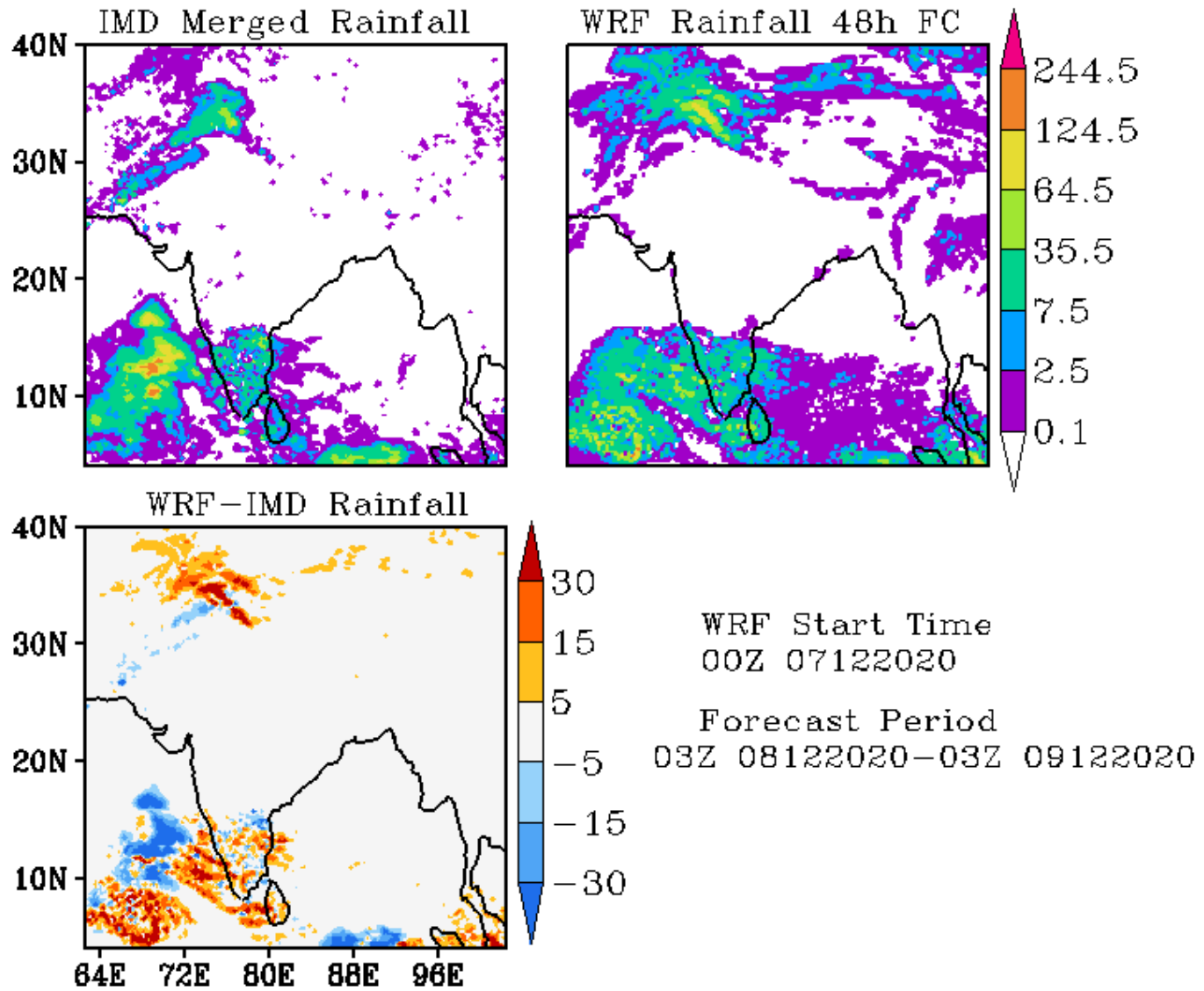


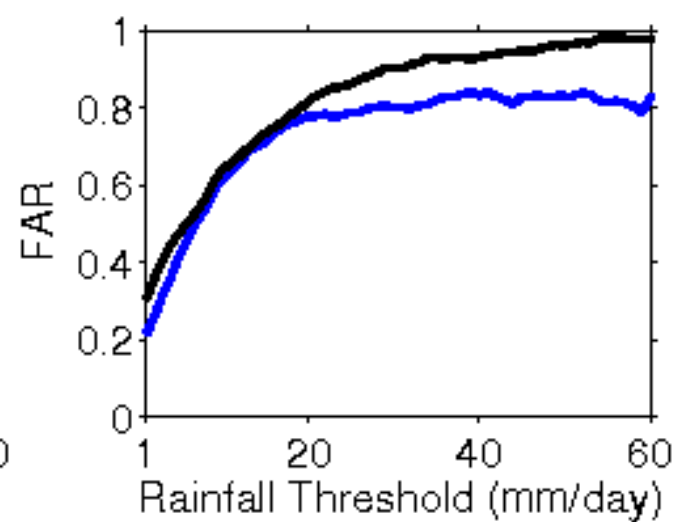
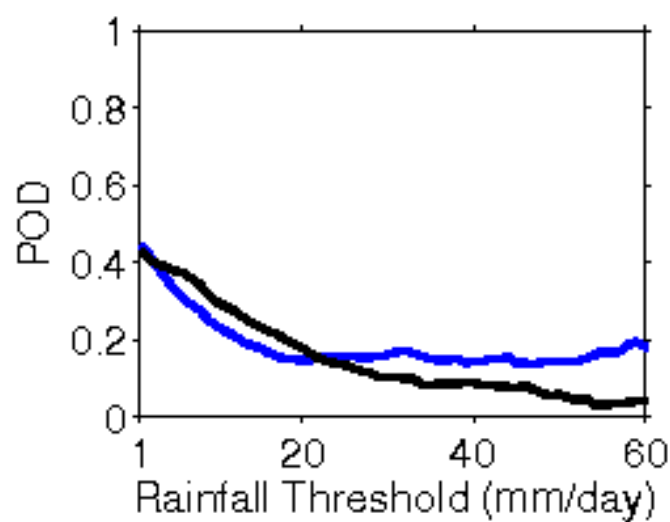
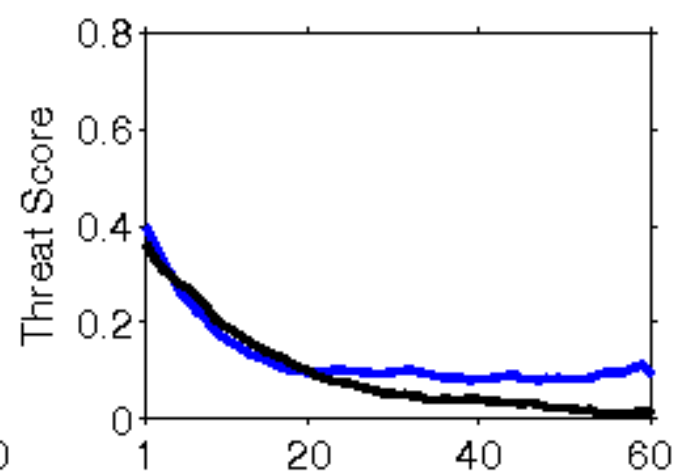
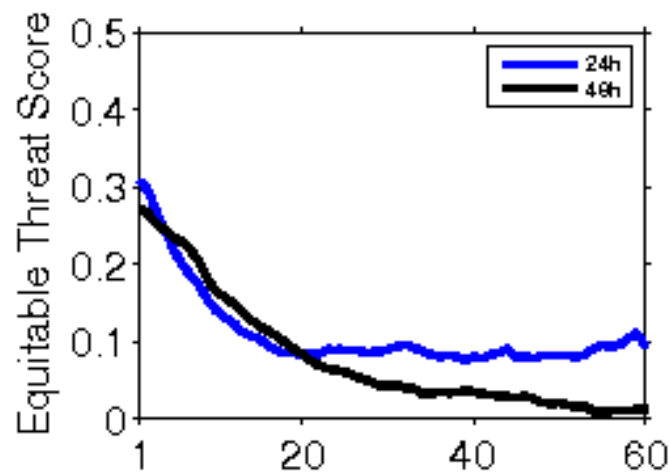


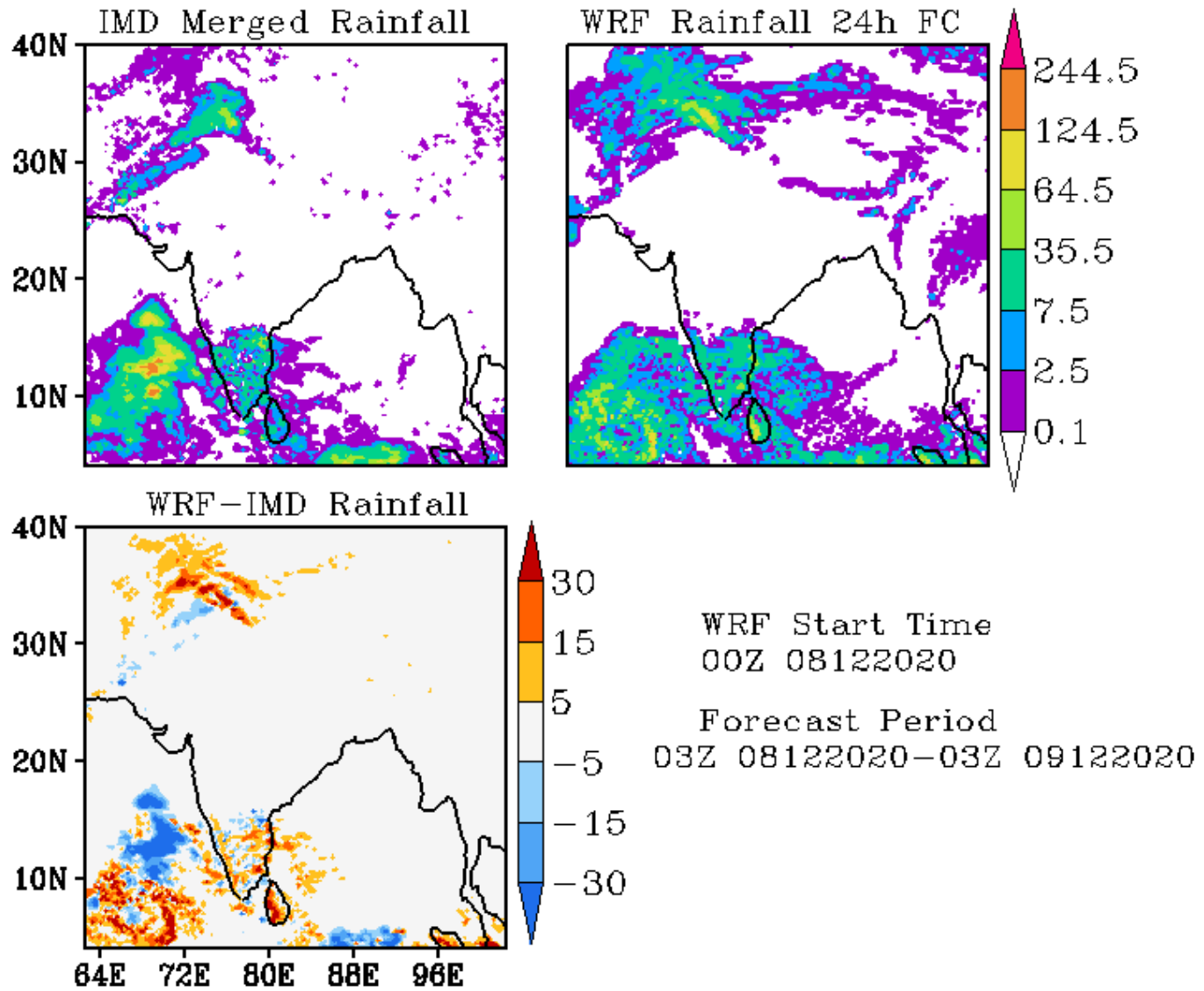


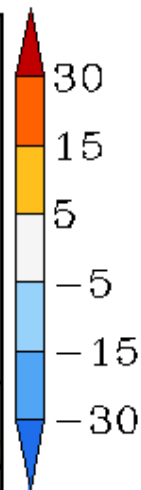
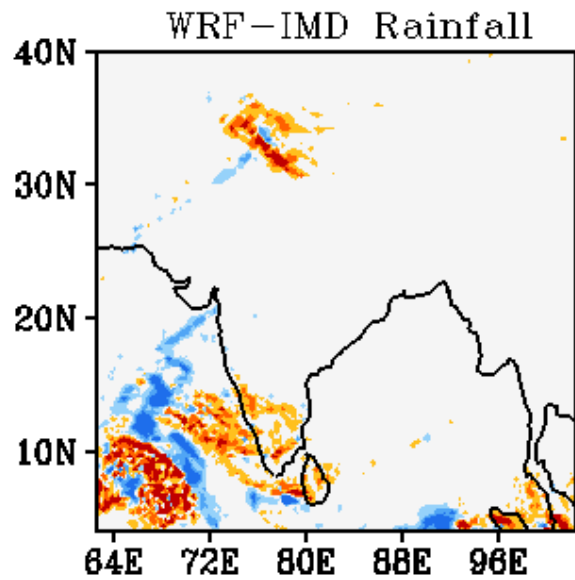
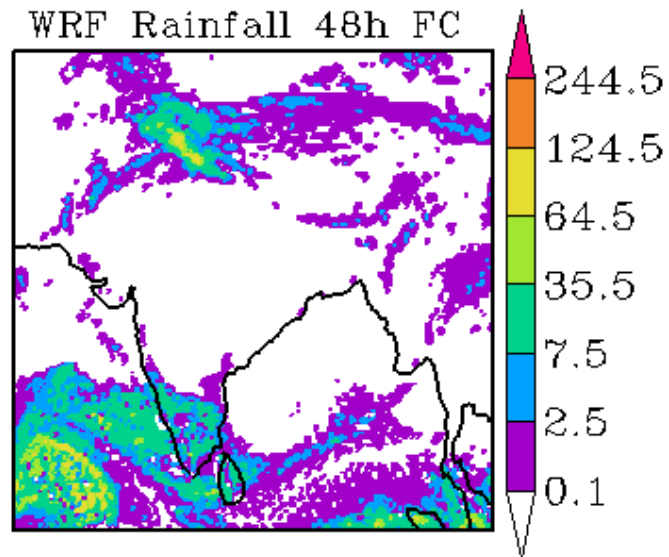
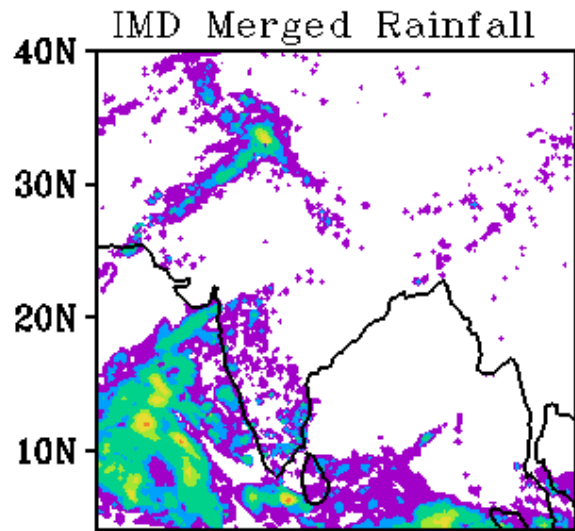






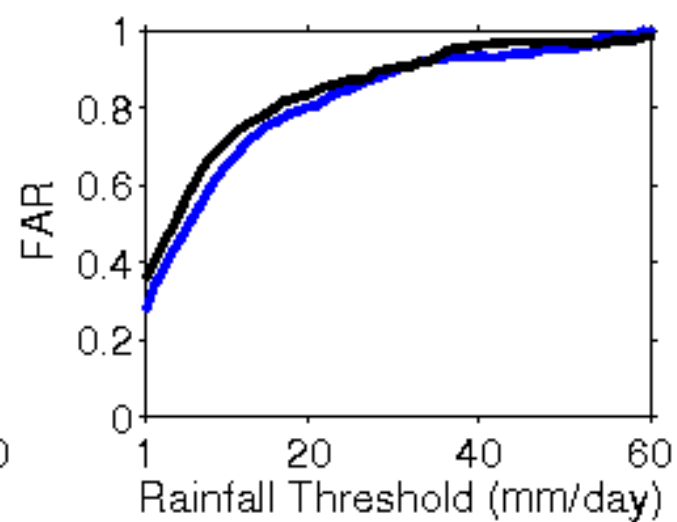
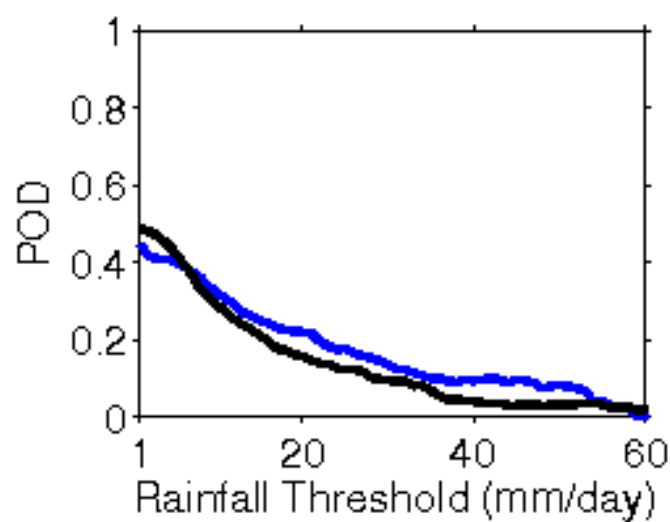
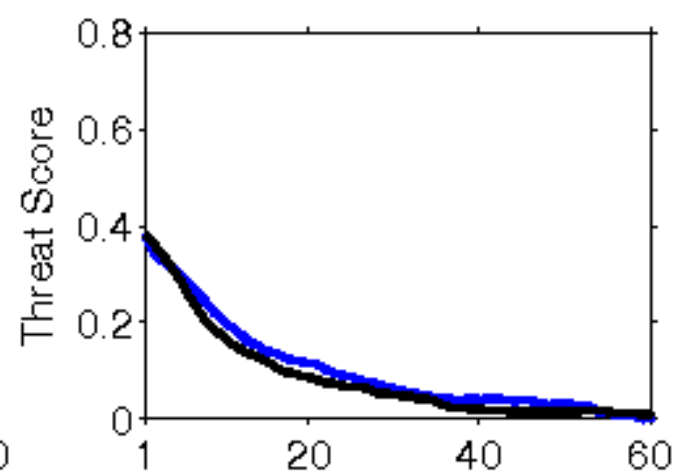
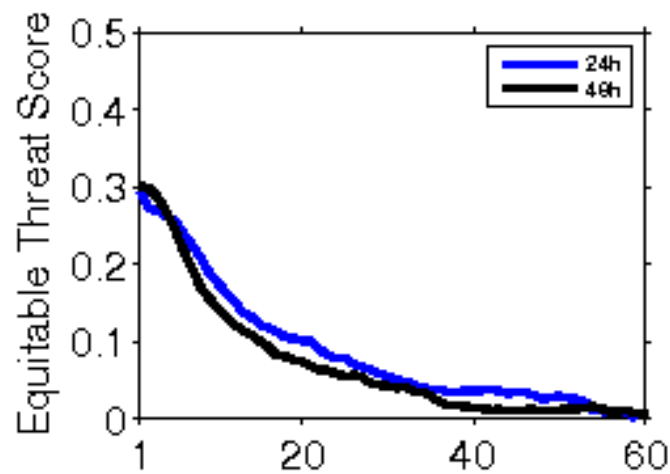


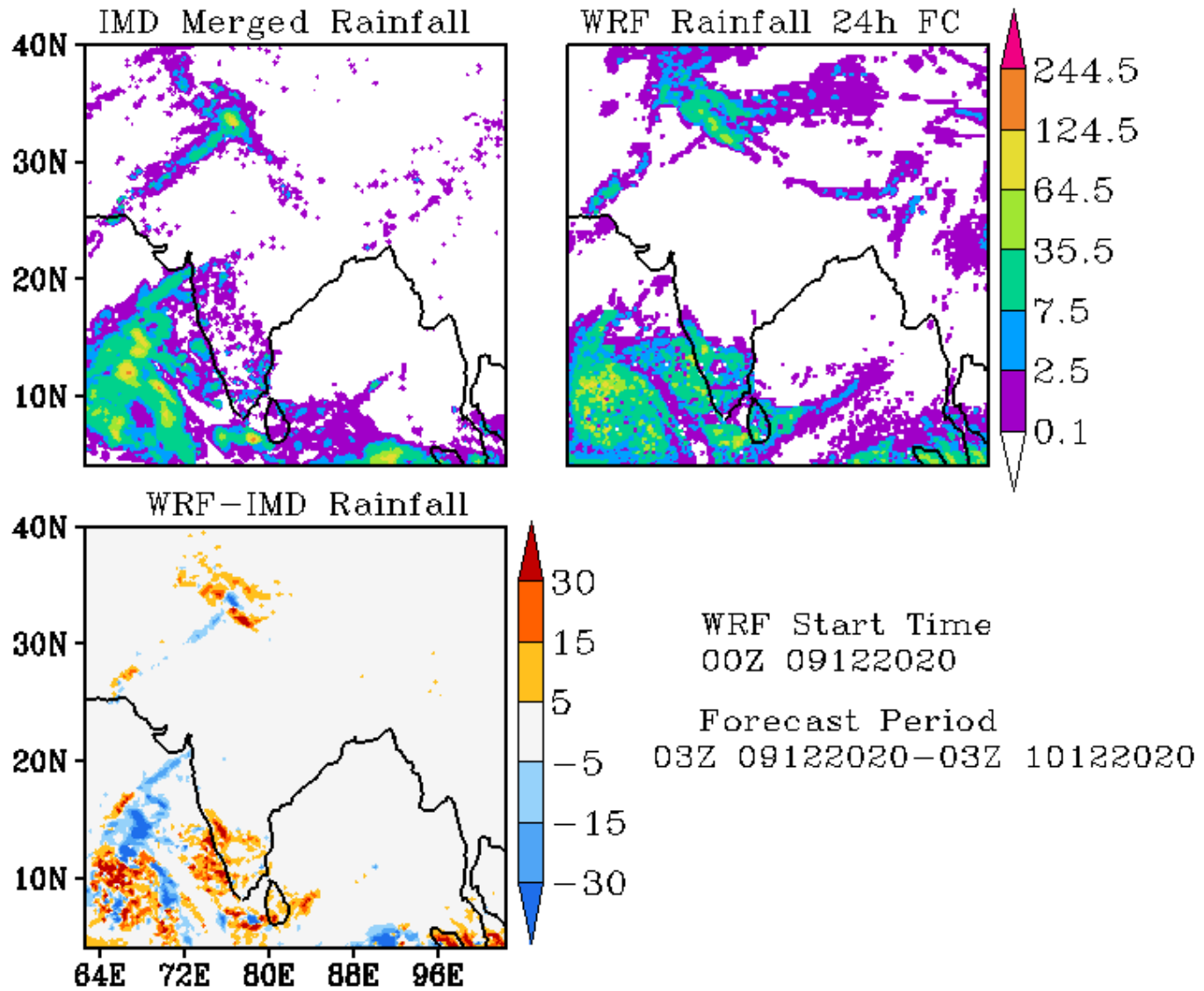


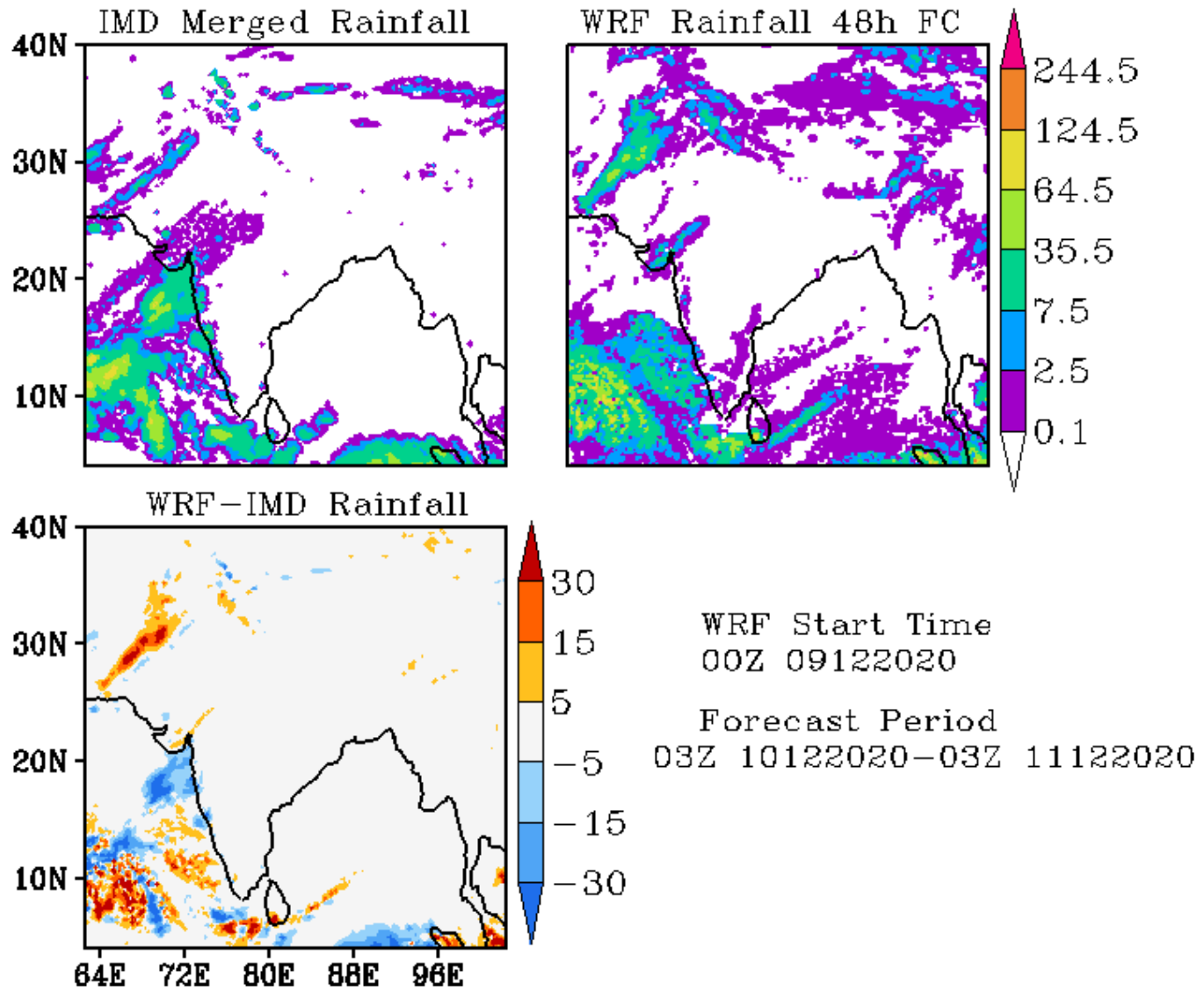


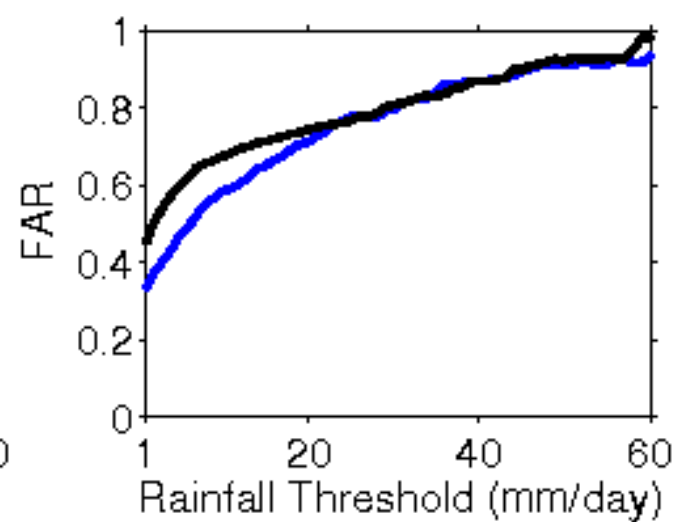
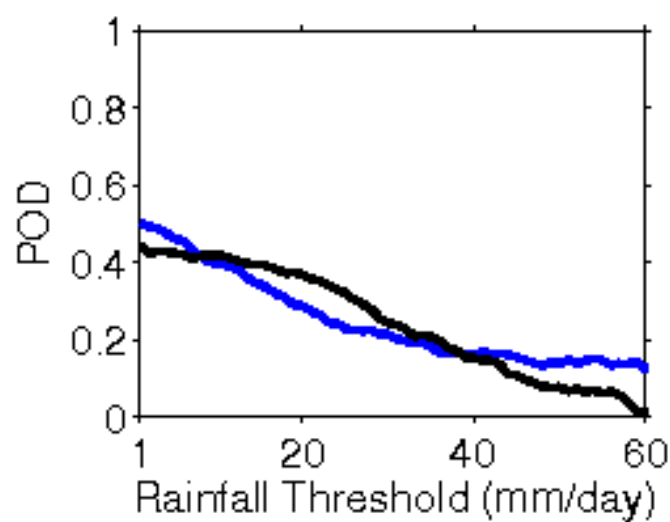
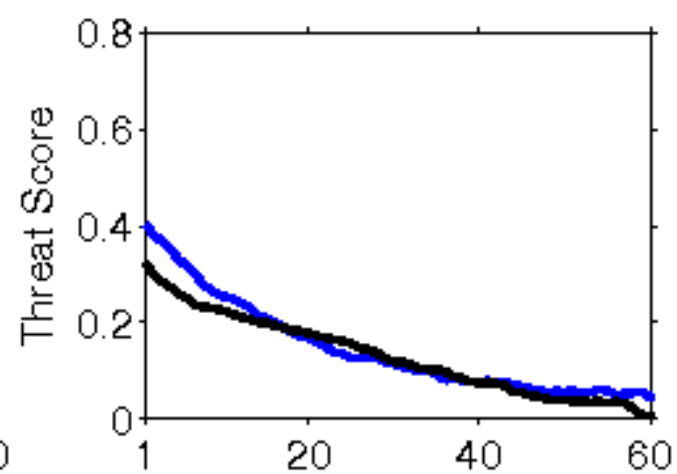
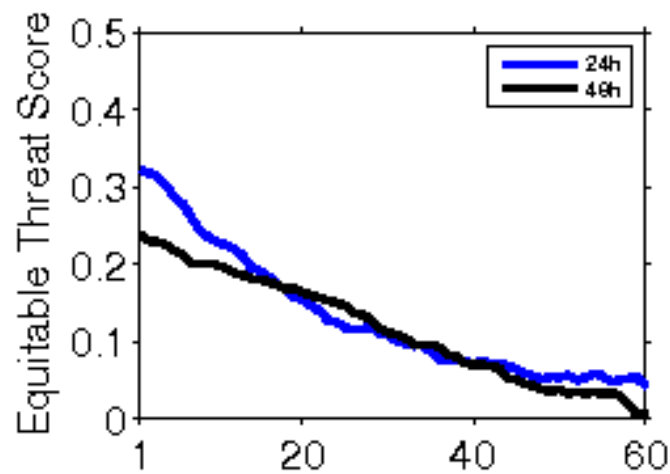
WRF Start Time
00Z 08122020

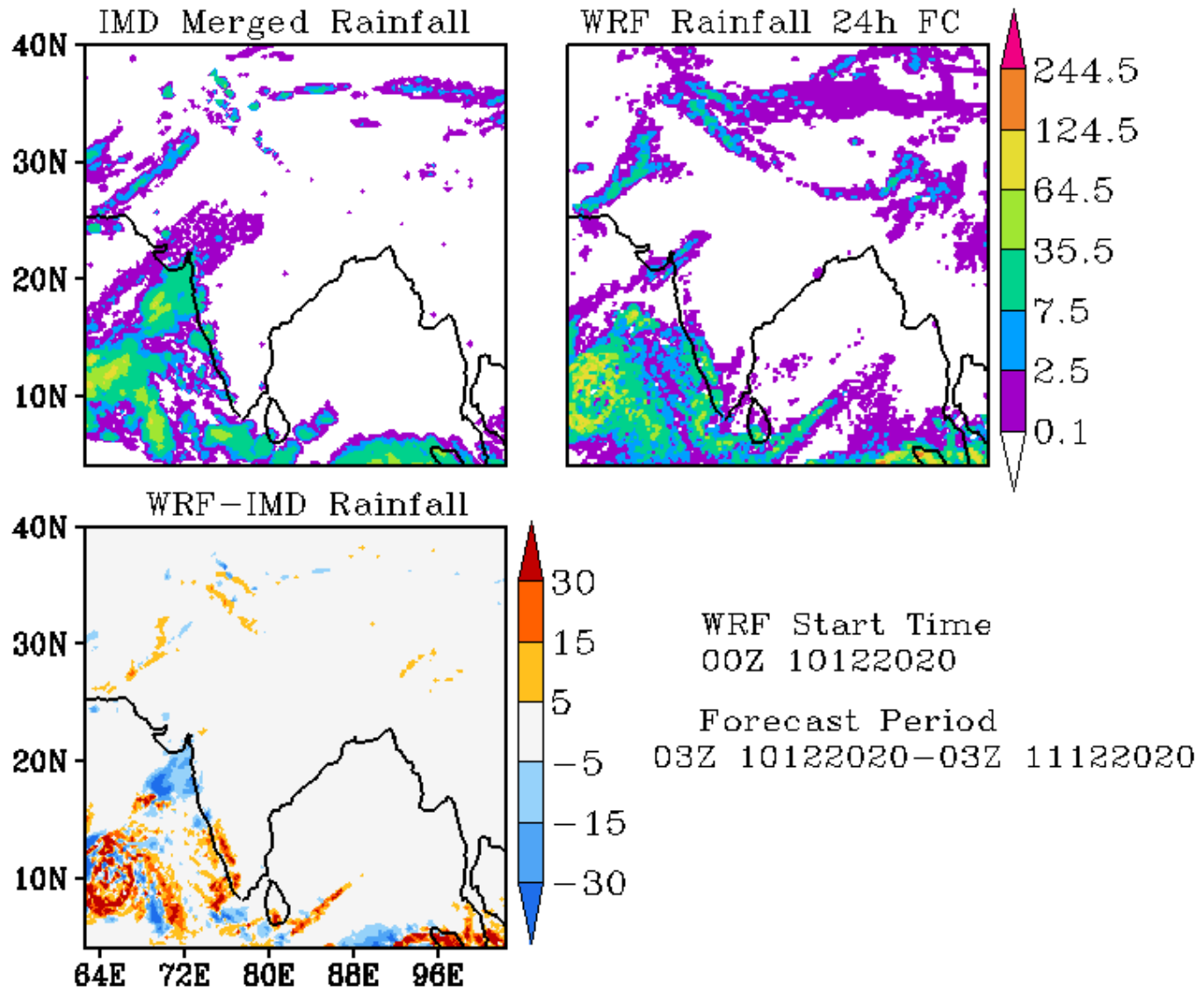
Forecast Period
03Z 09122020-03Z 10122020



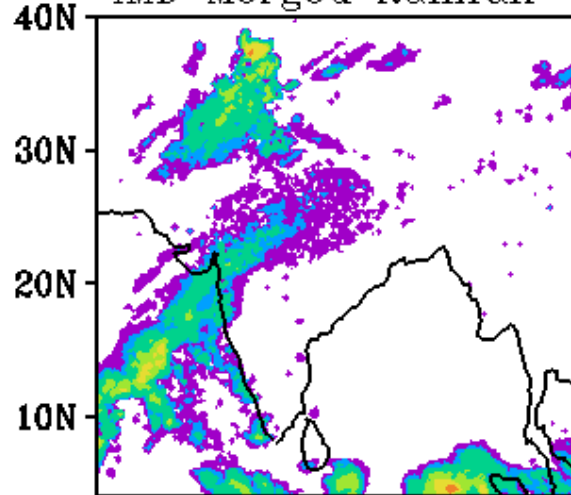




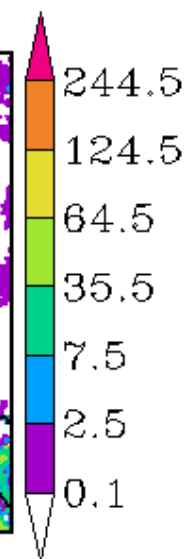
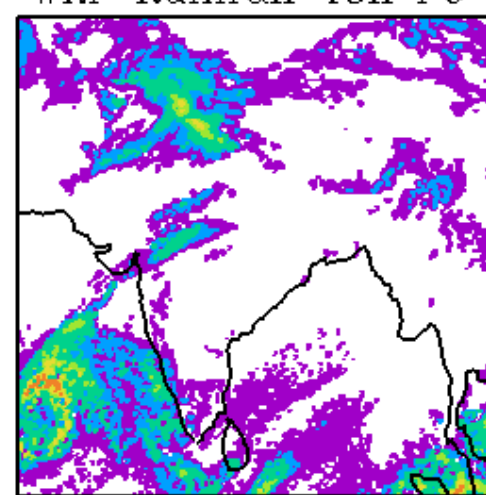




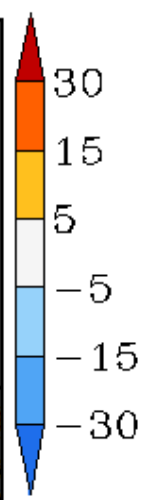
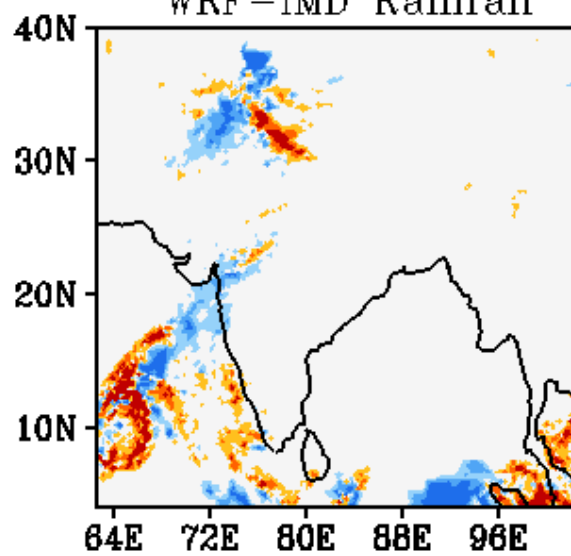
IMD Merged Rainfall



WRF Rainfall 48h FC

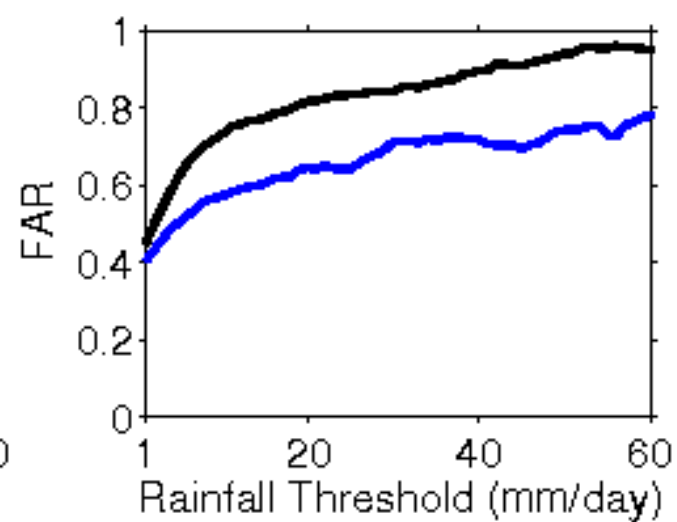
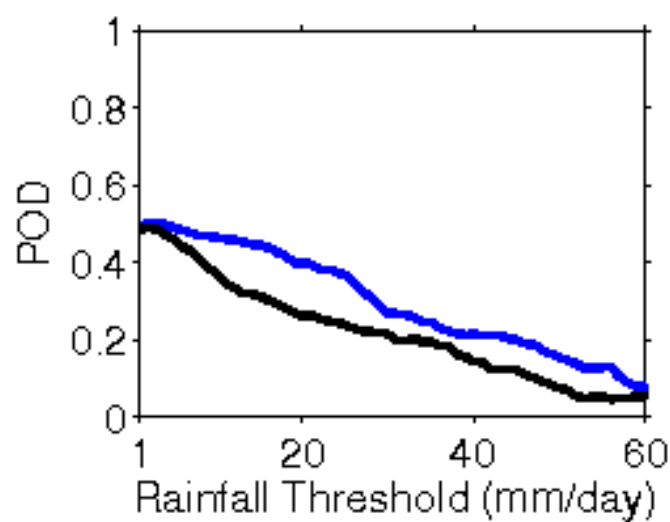
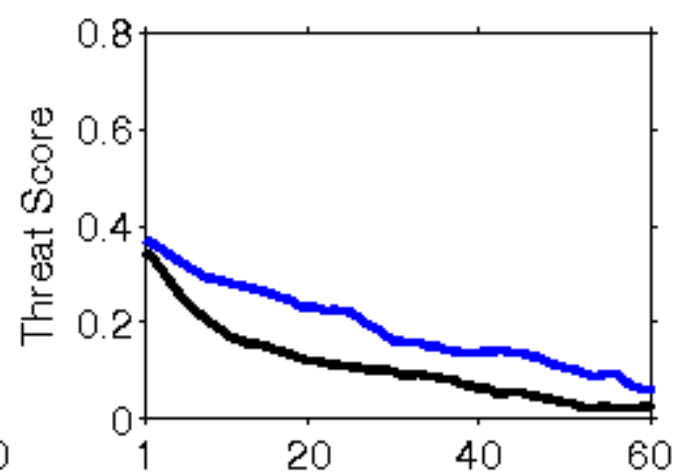
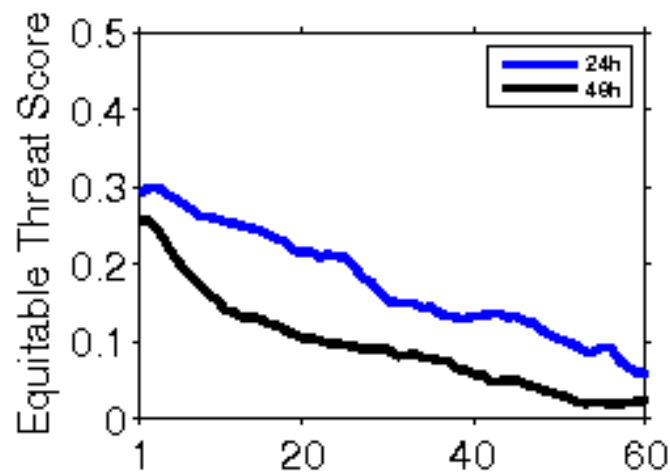


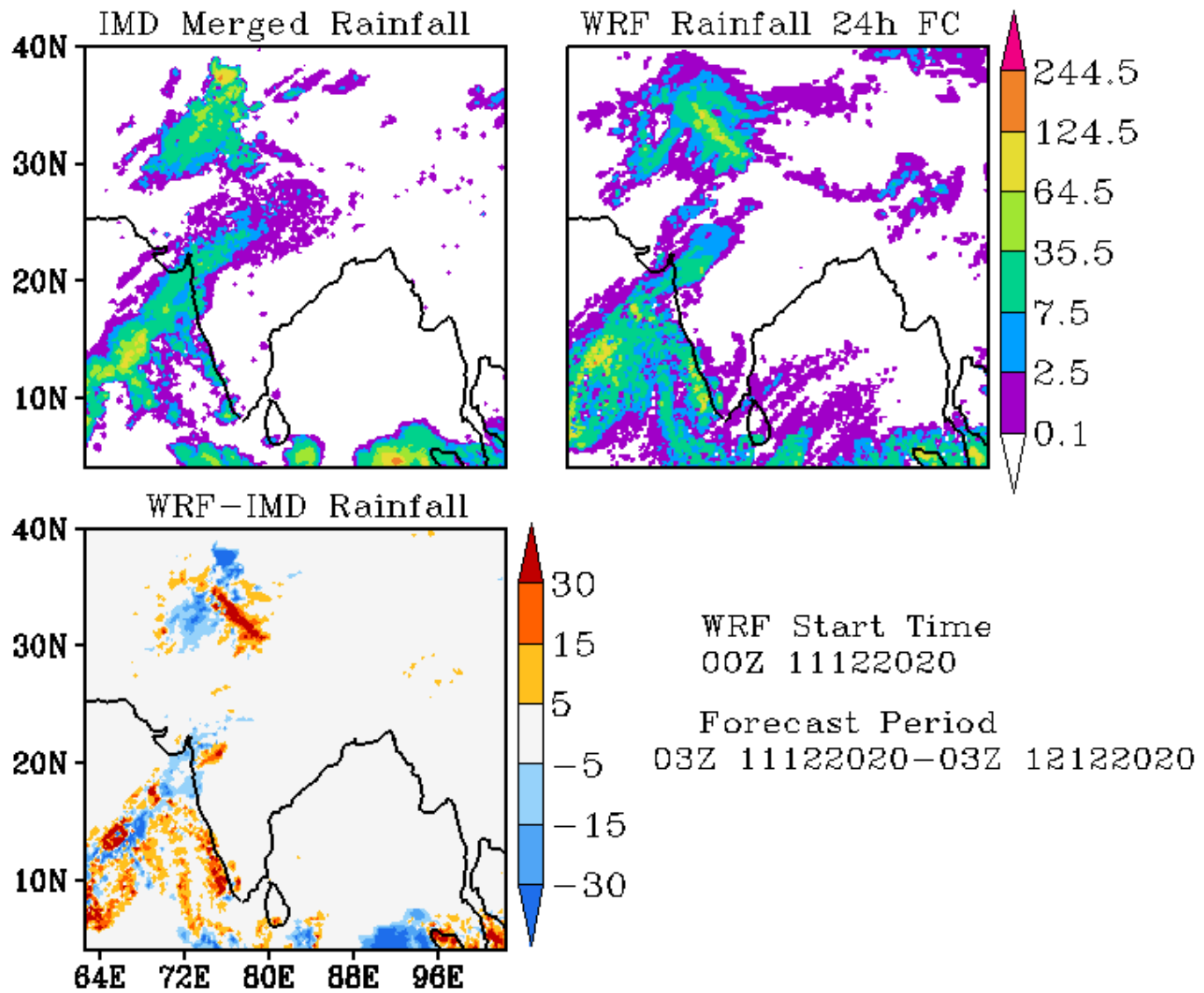
WRF-IMD Rainfall

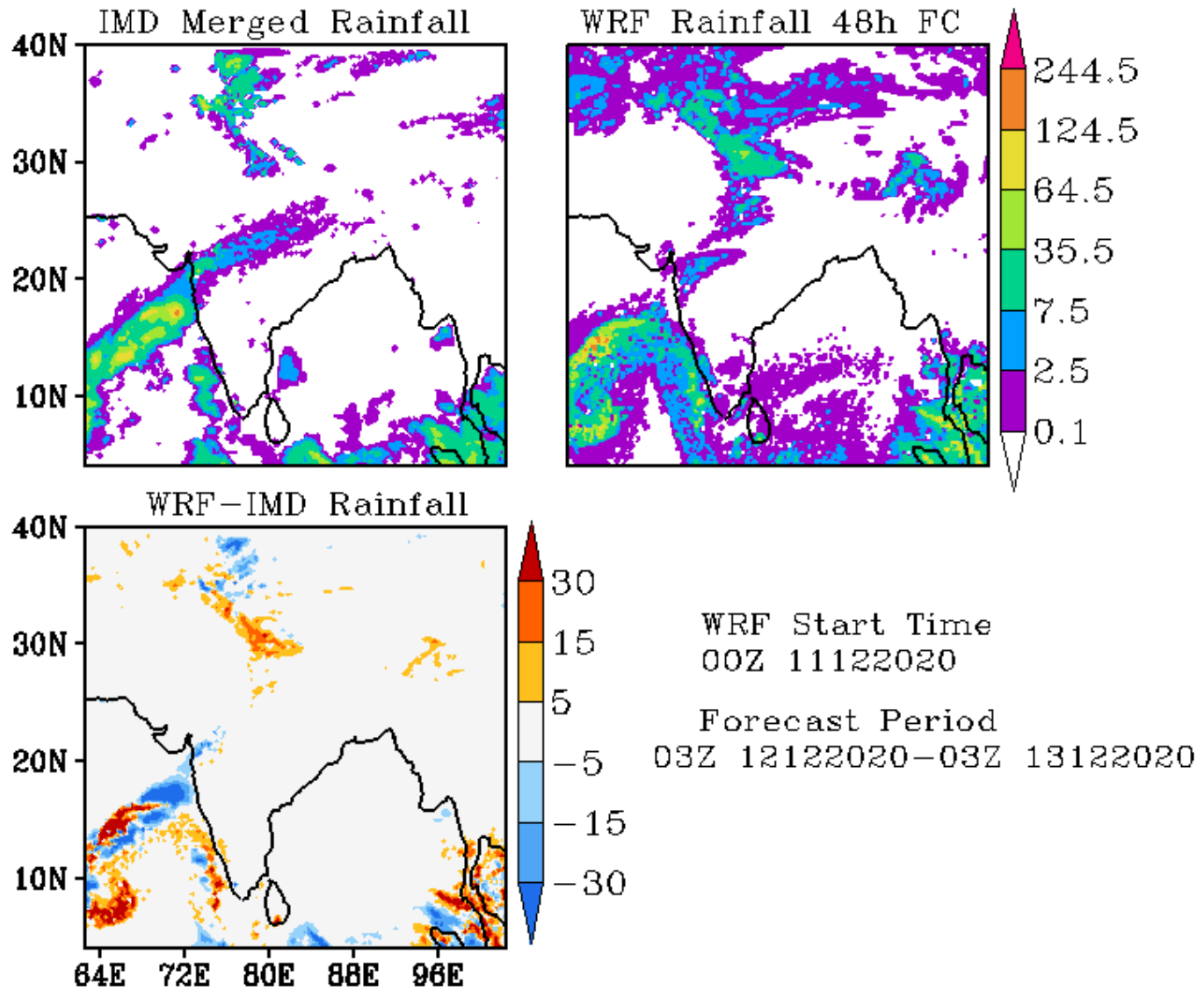


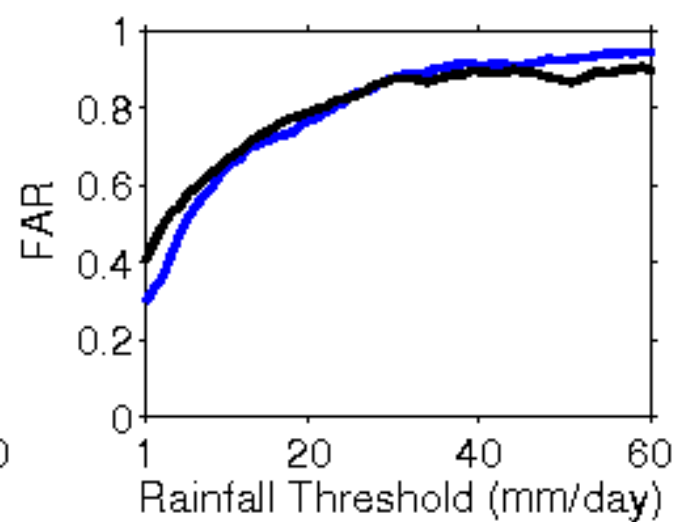
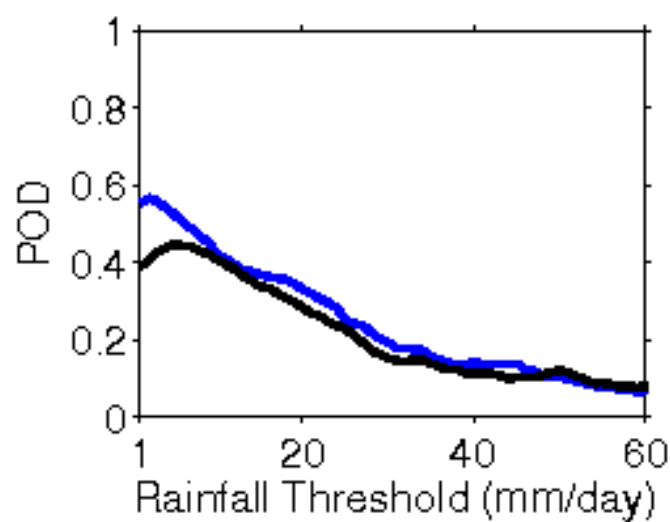
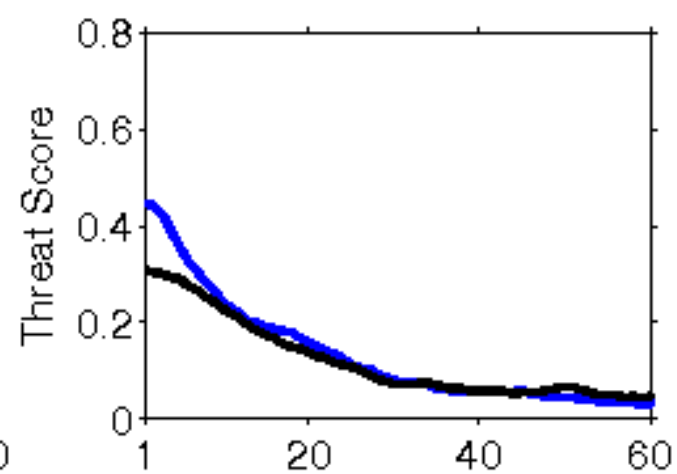
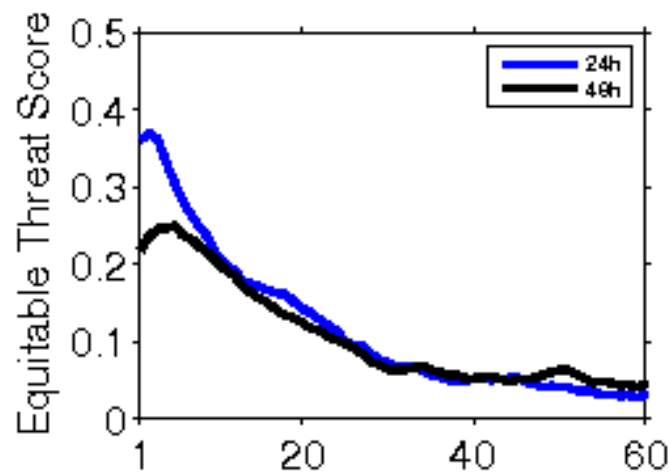
WRF Start Time
00Z 10122020

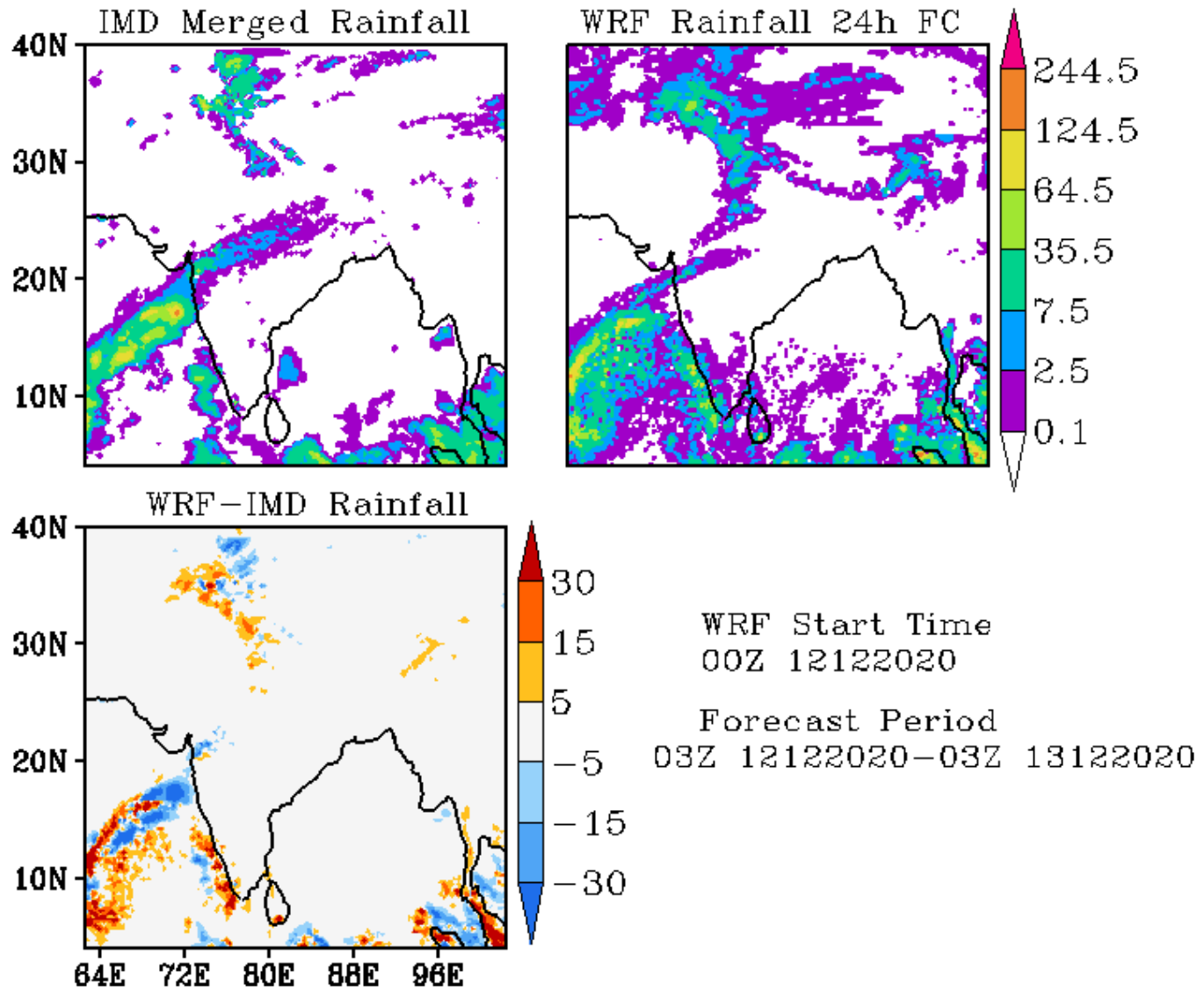
Forecast Period
03Z 11122020-03Z 12122020

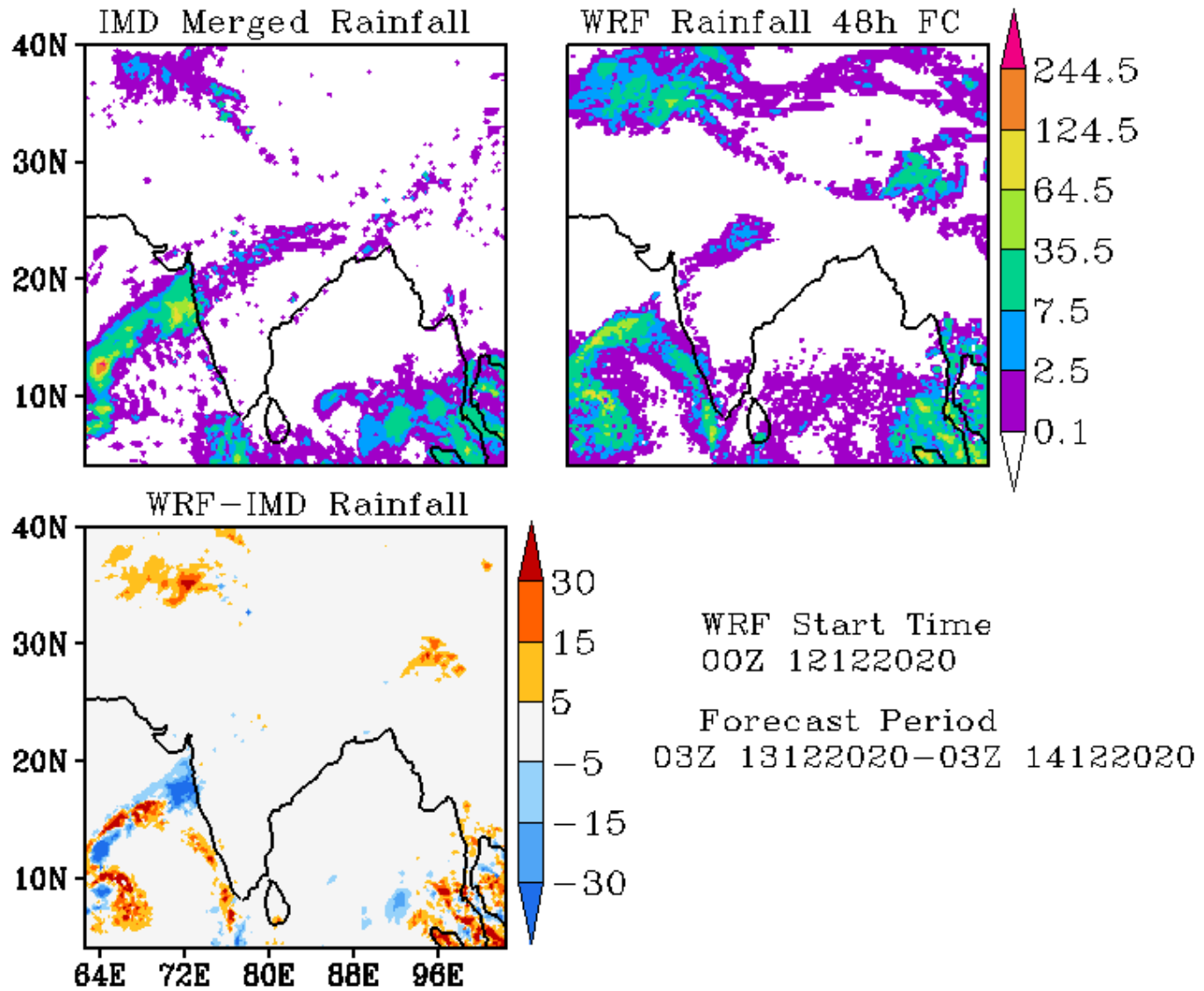


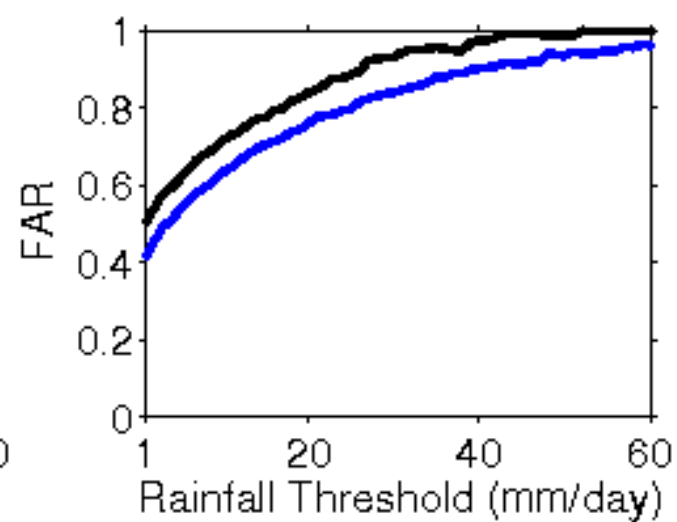
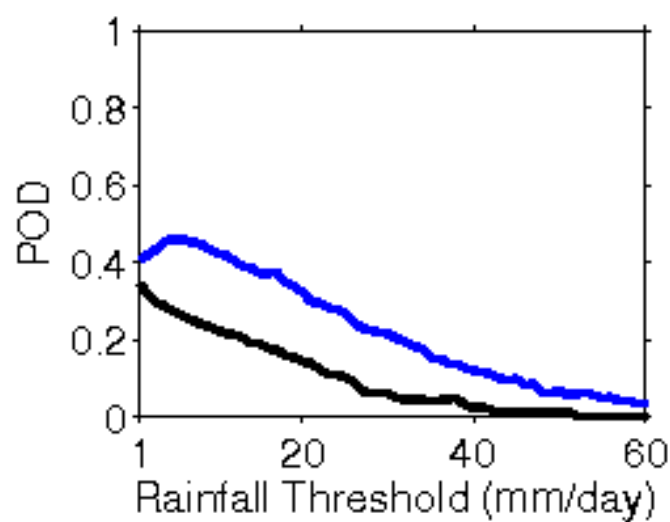
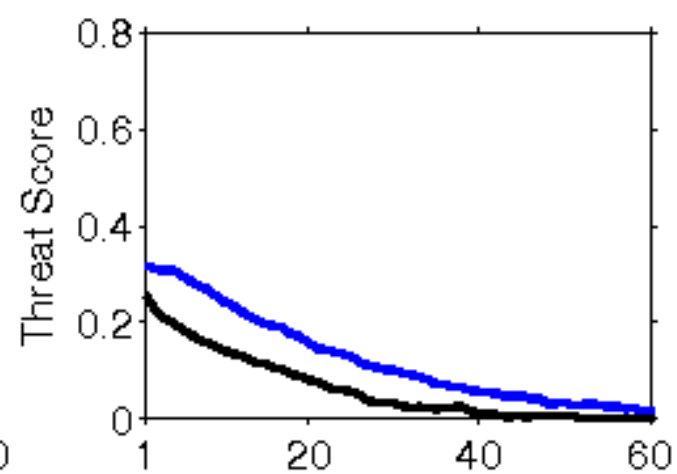
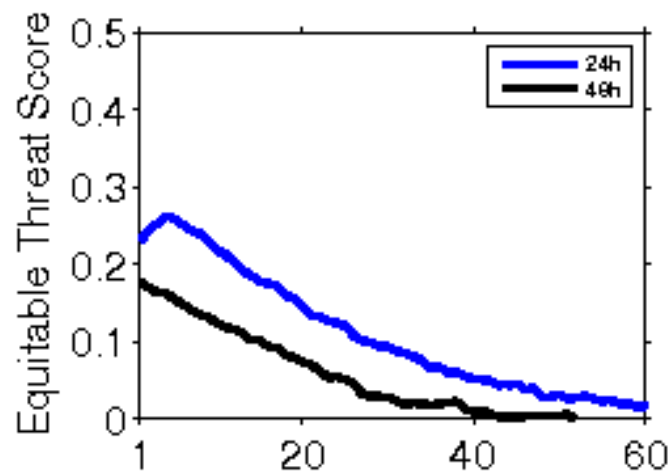


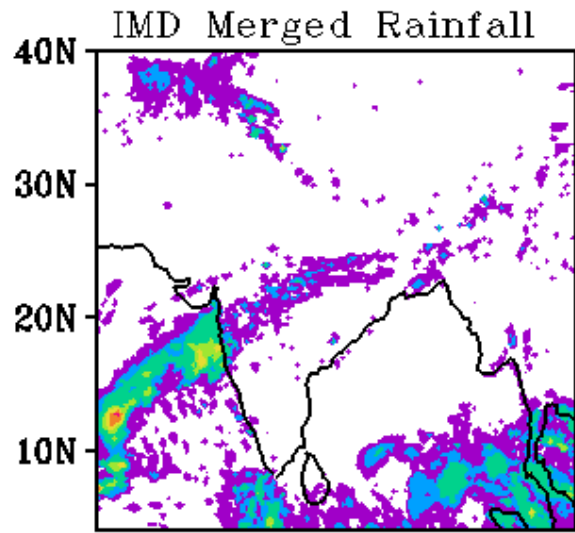




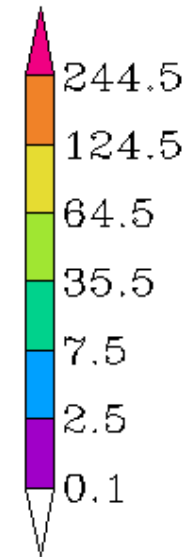




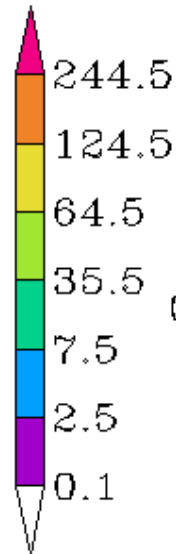




WRF Rainfall 24h FC



WRF-IMD Rainfall

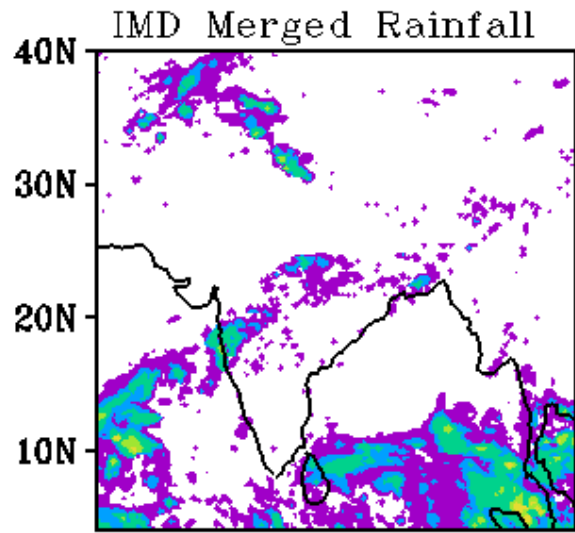


WRF Start Time

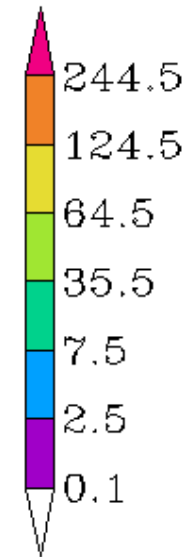
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Forecast Period

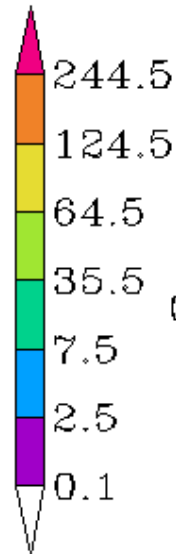
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WRF Rainfall 48h FC



WRF-IMD Rainfall

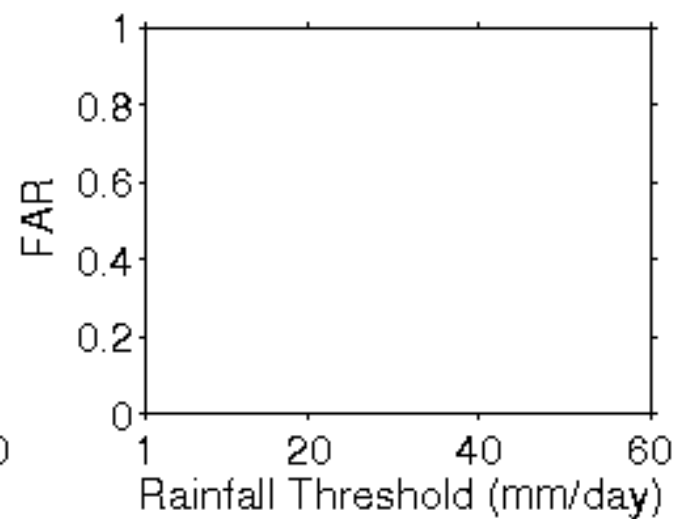
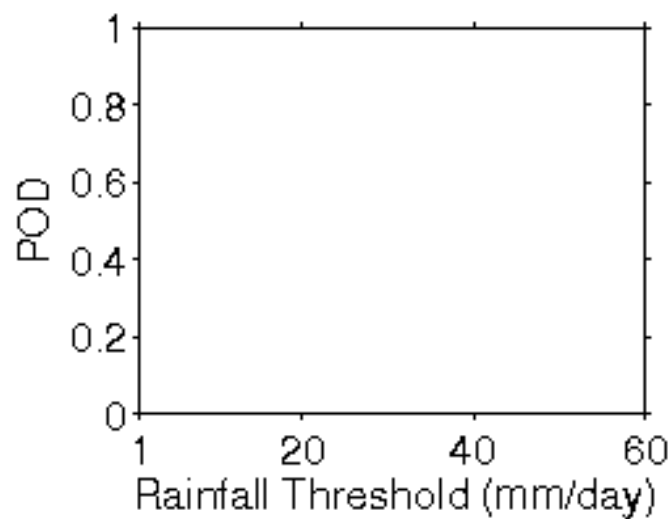
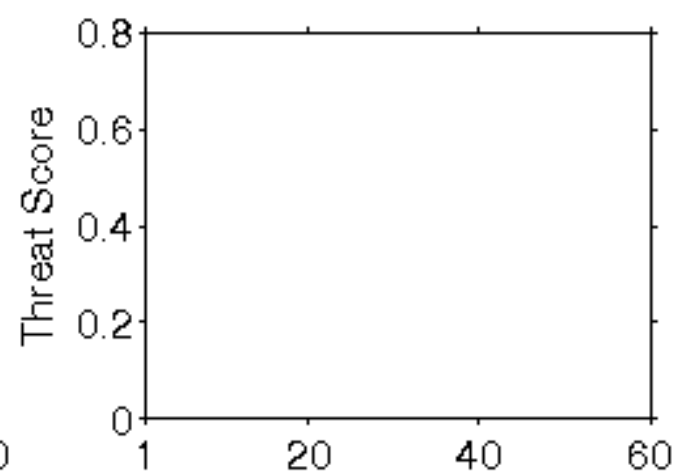
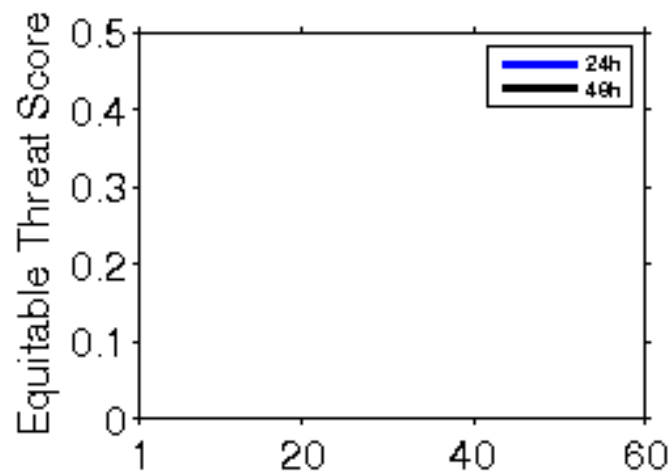


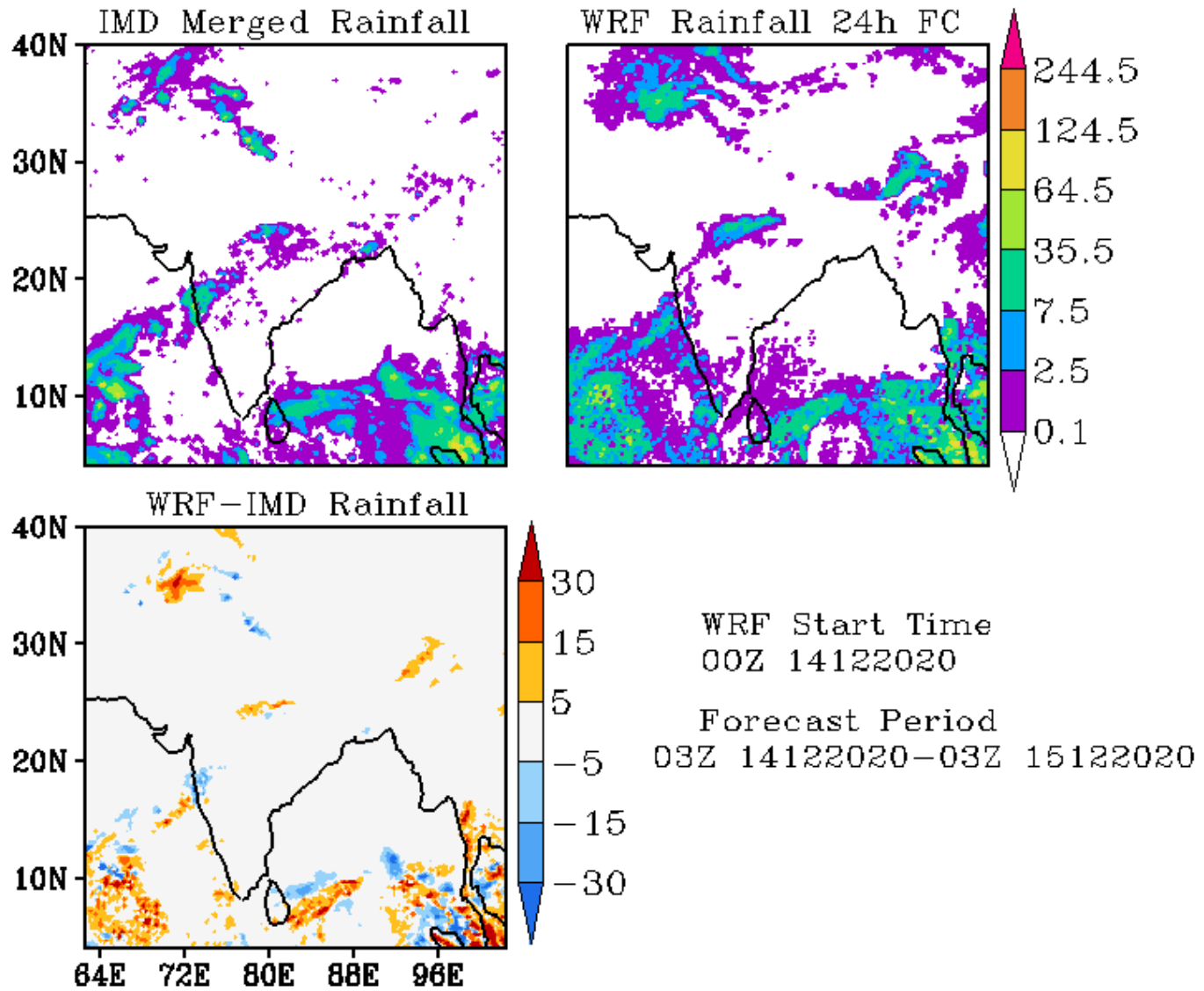
WRF Start Time

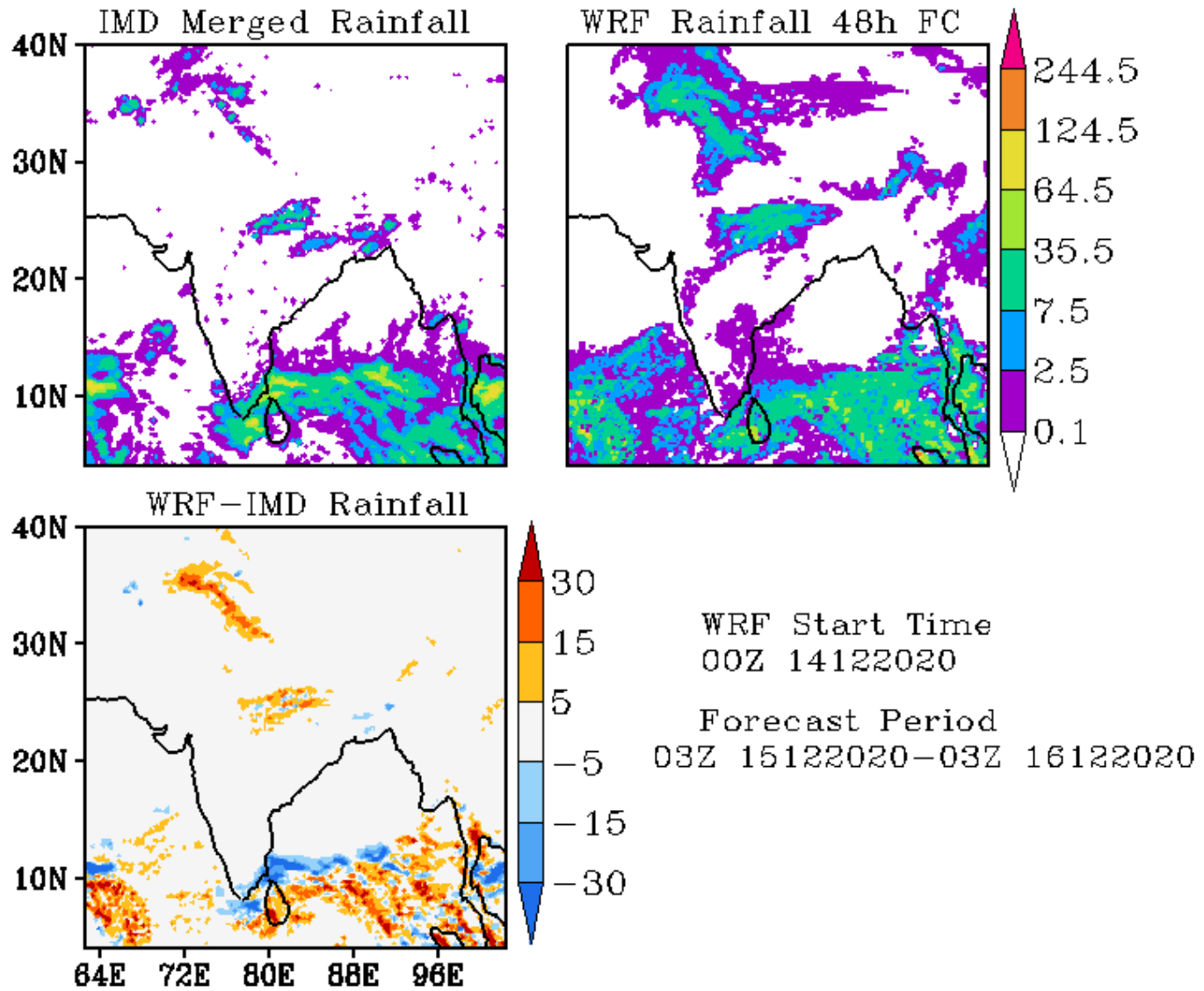
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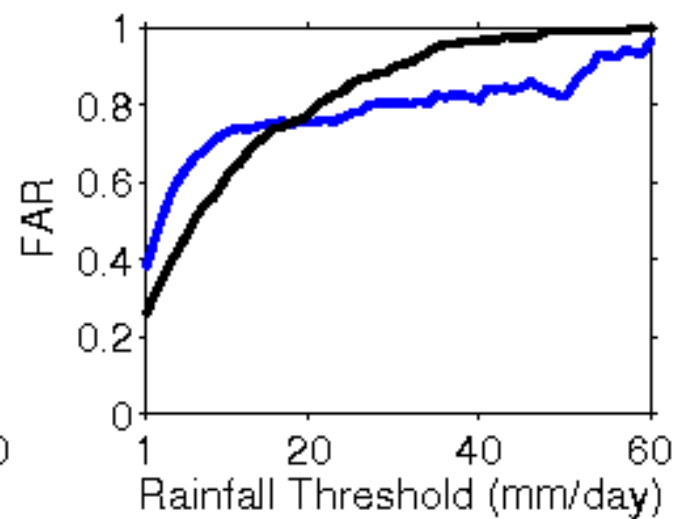
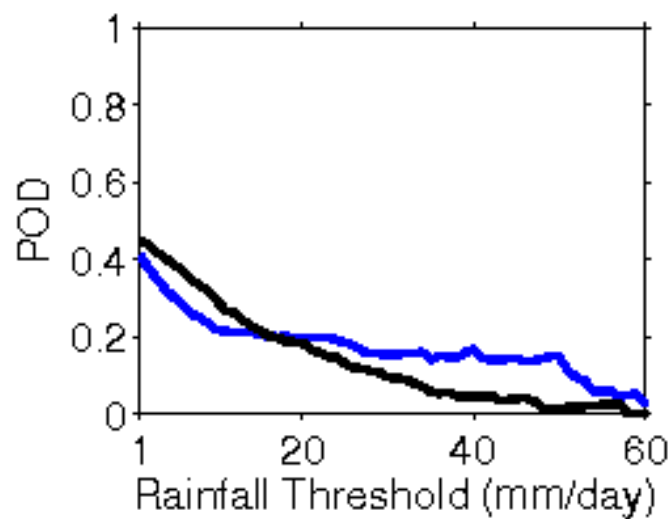
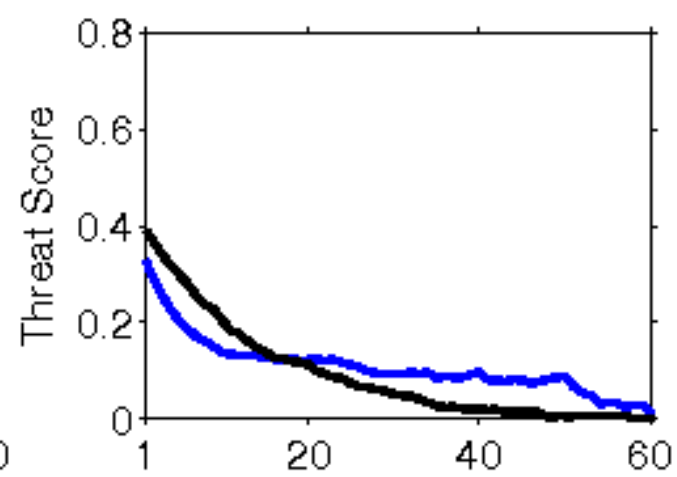
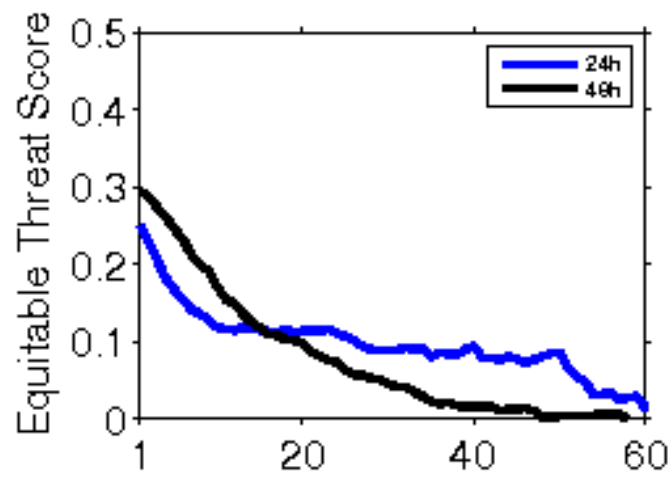
Forecast Period

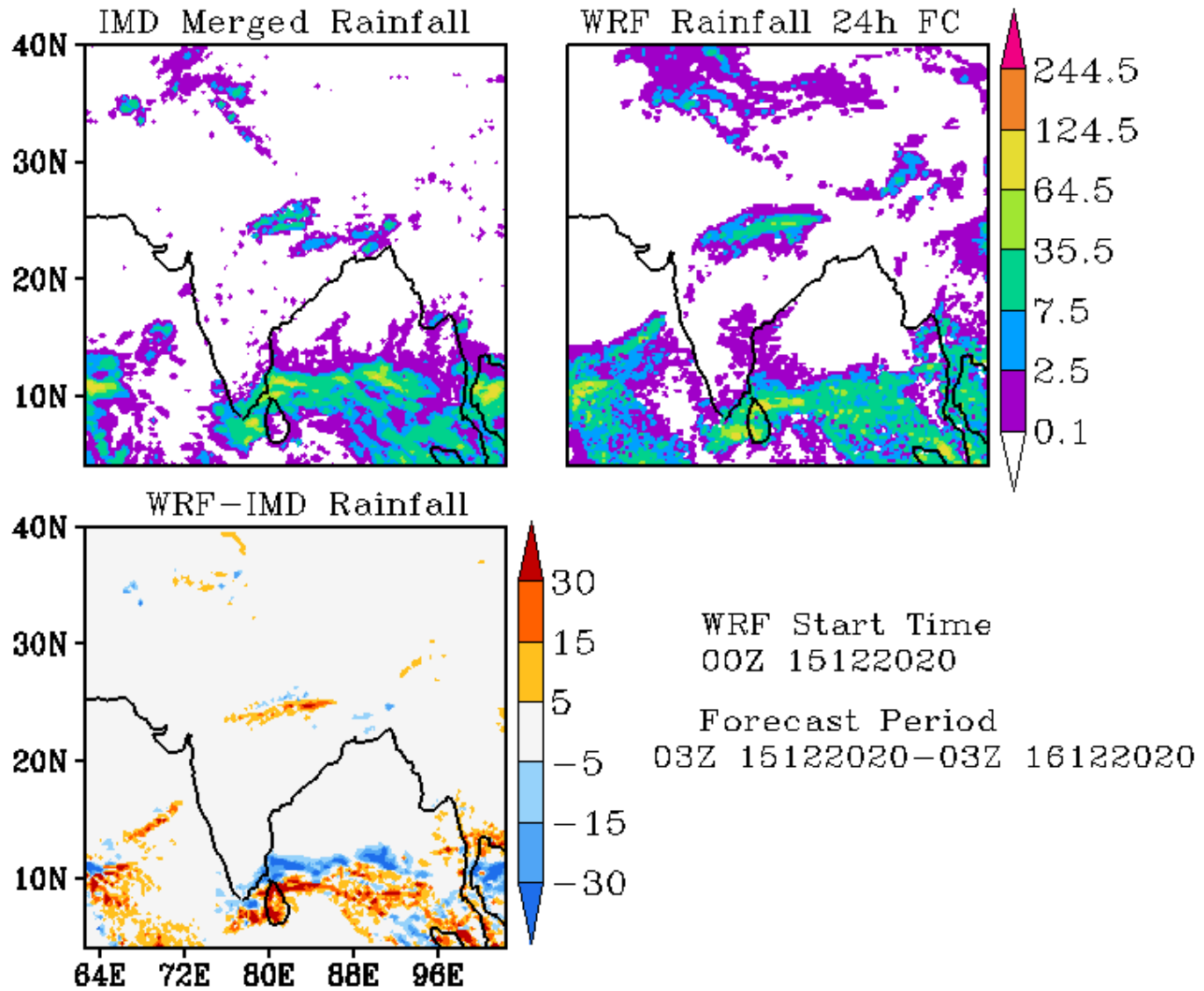
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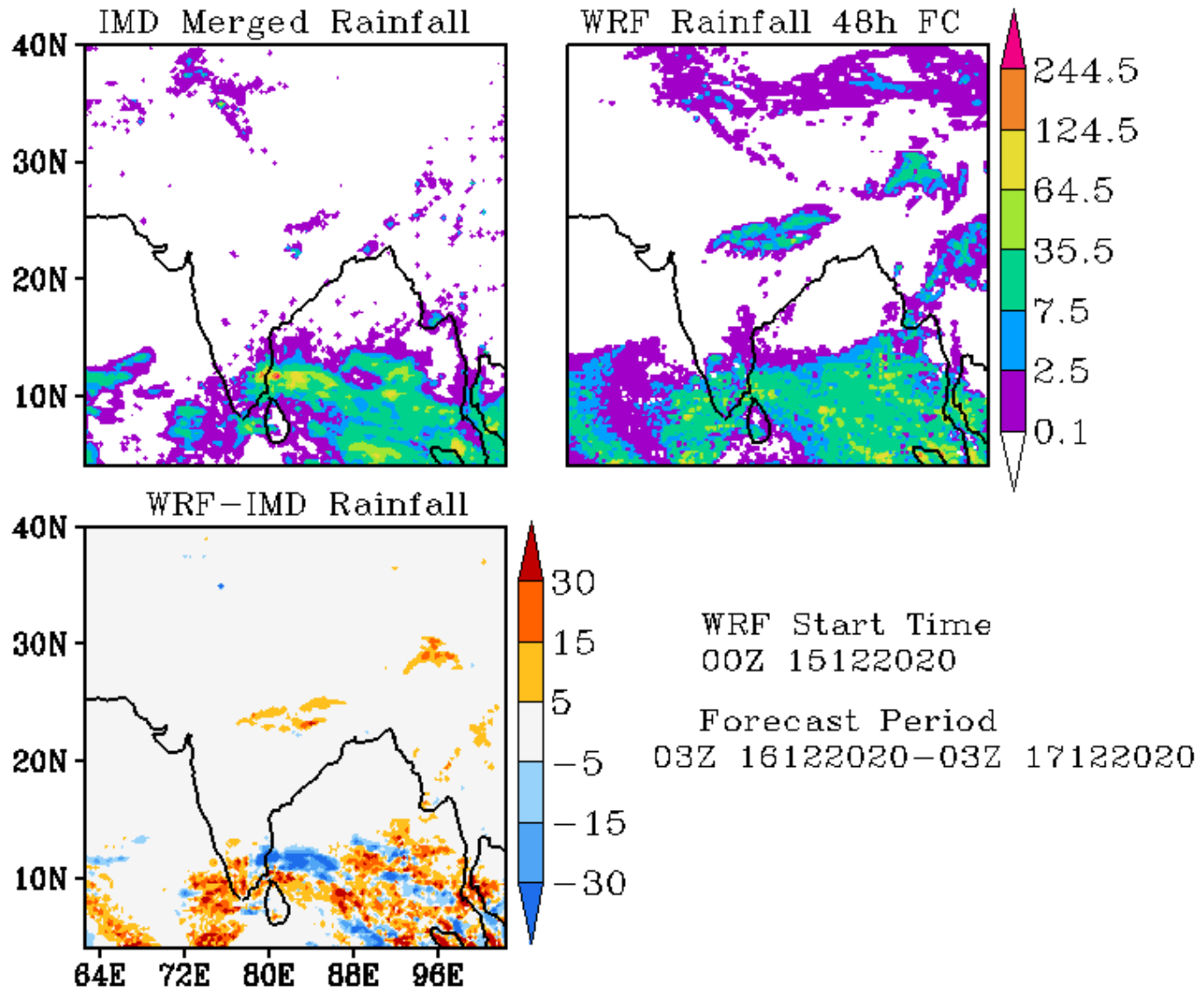


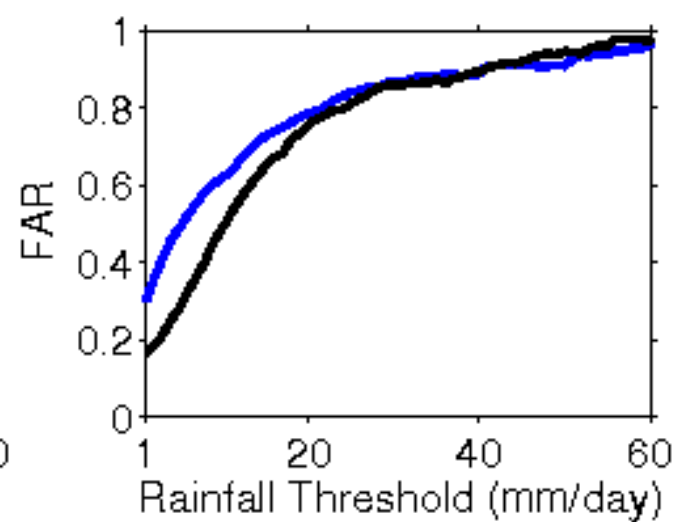
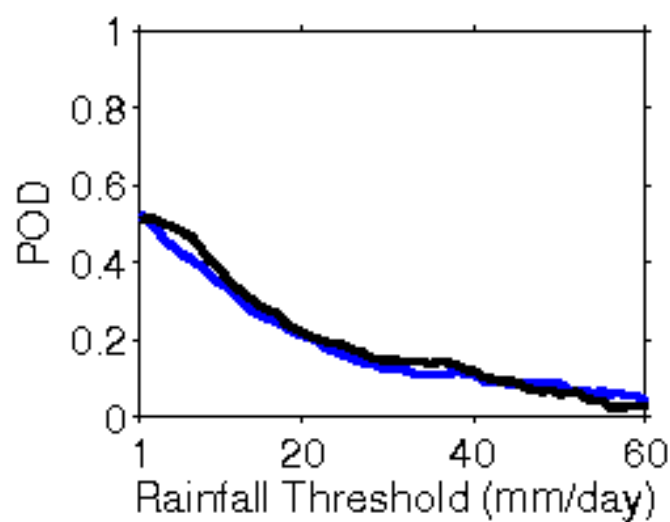
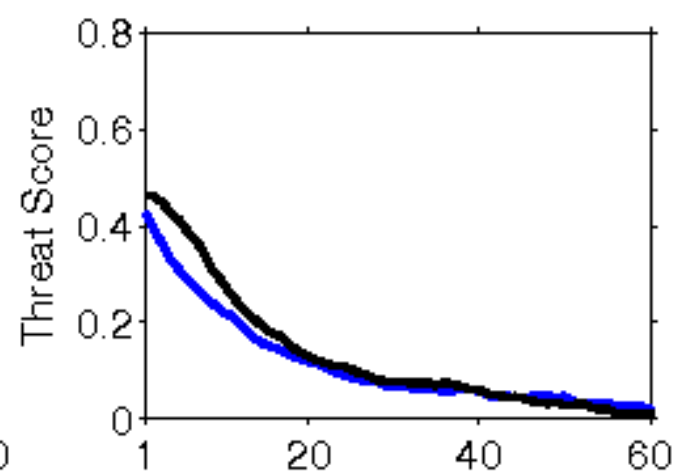
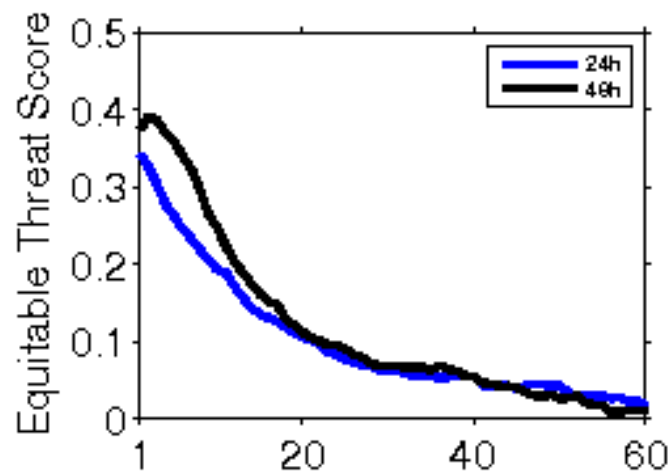


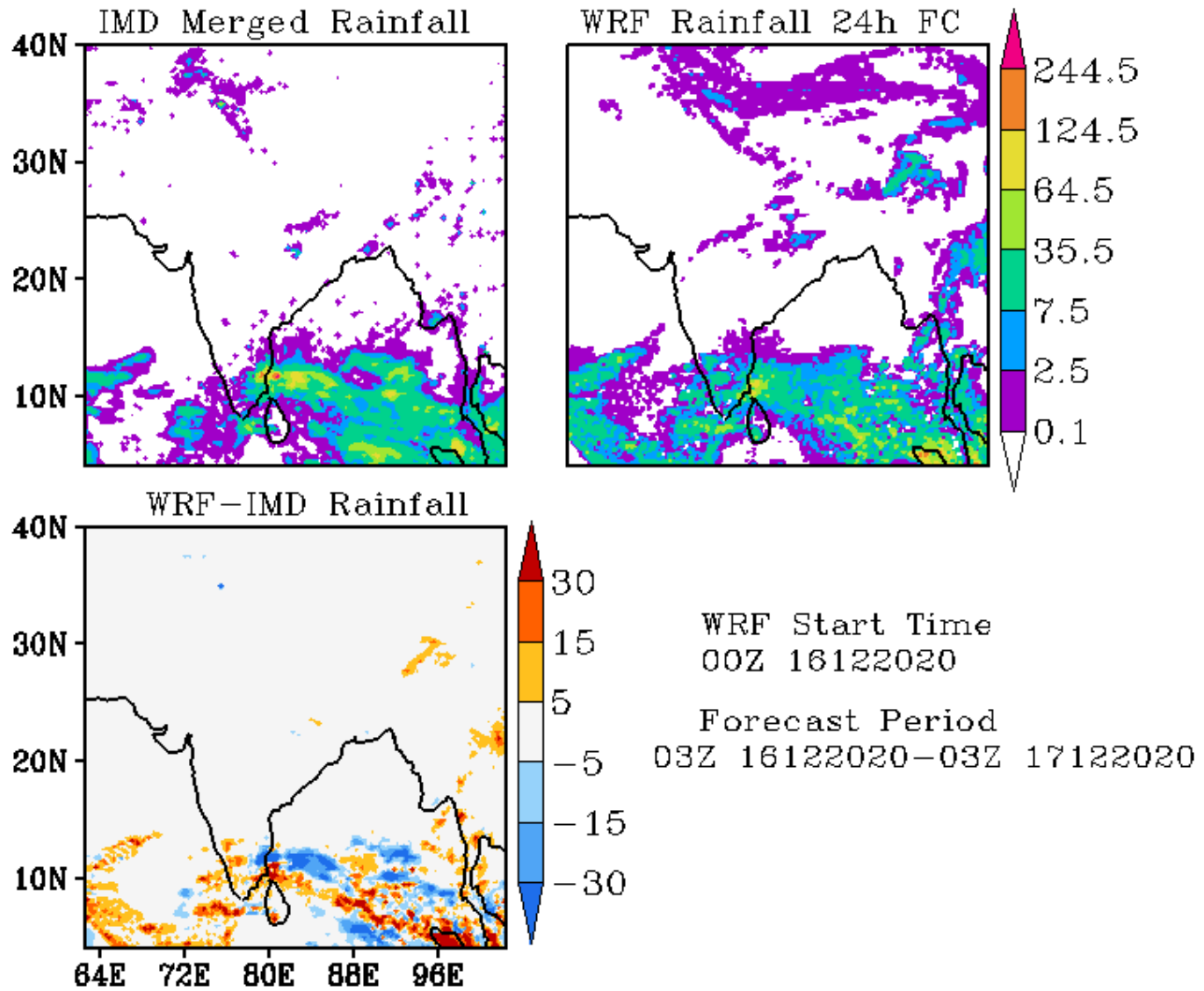


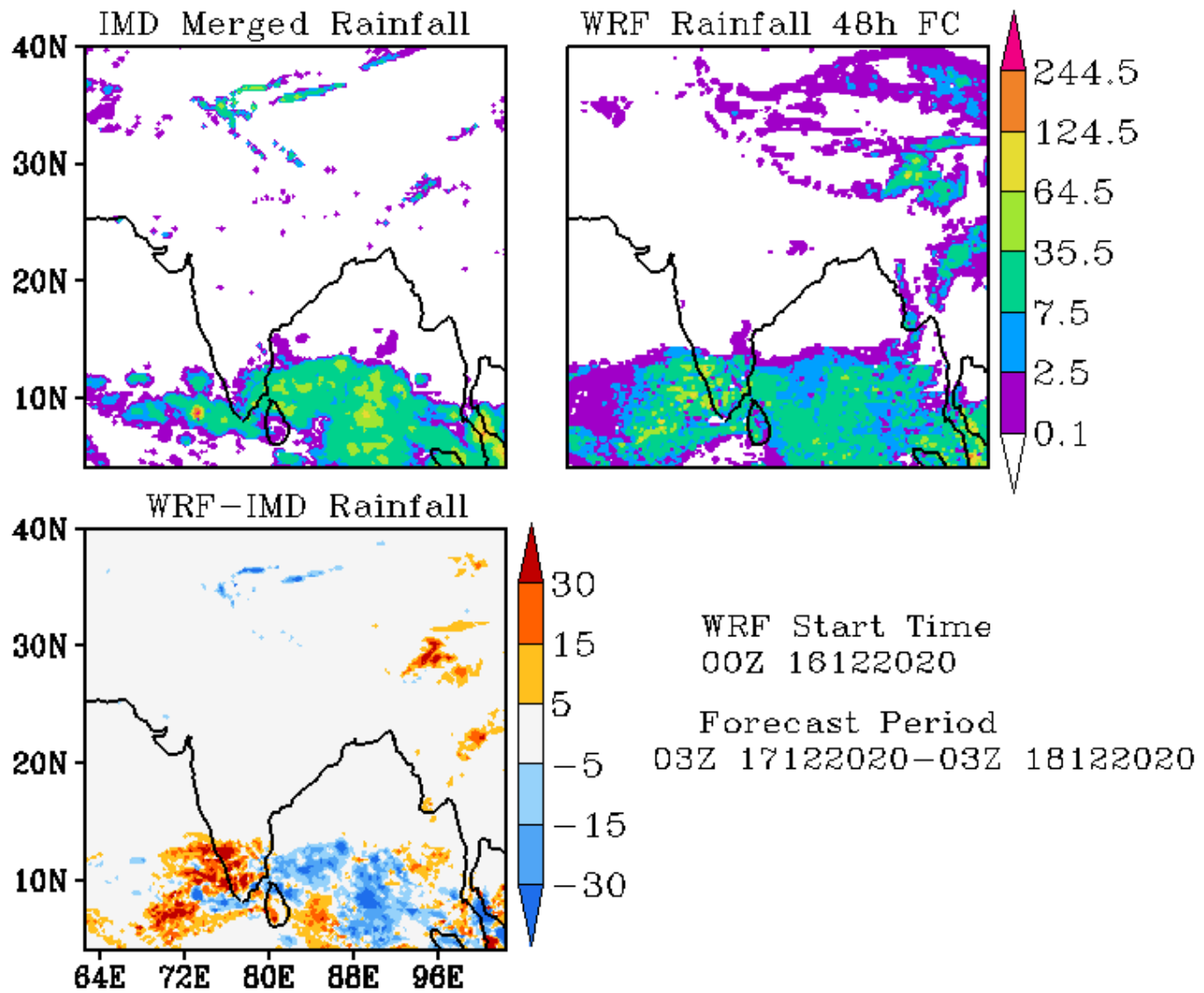


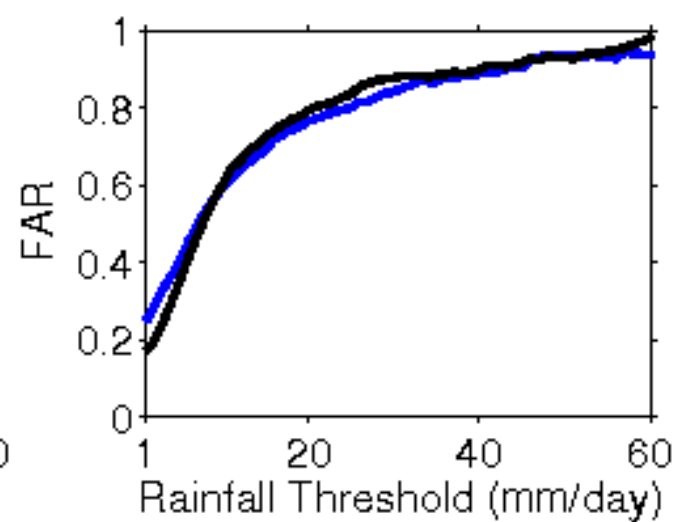
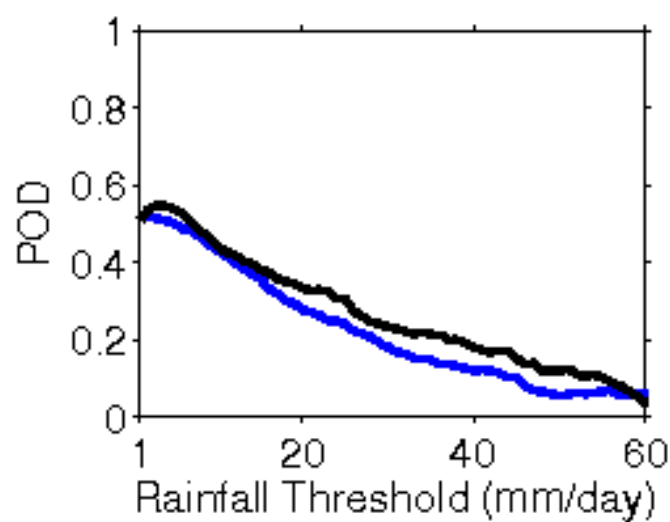
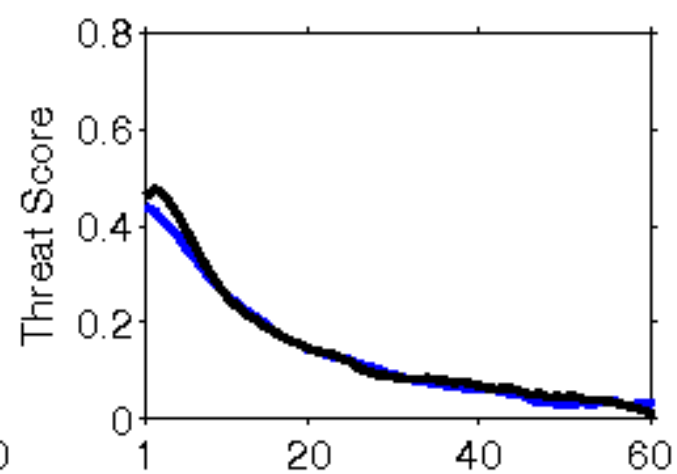
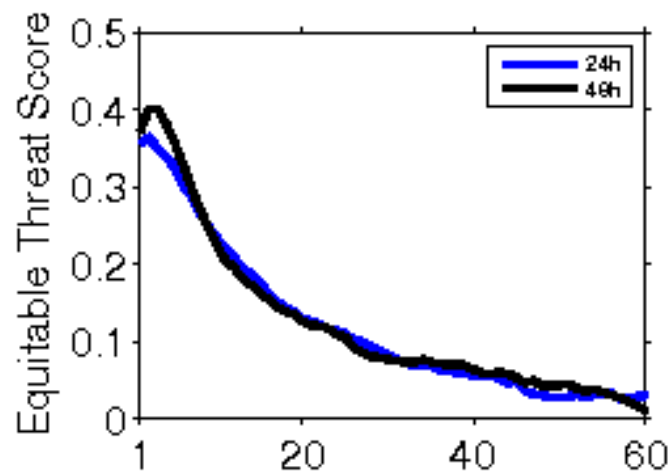


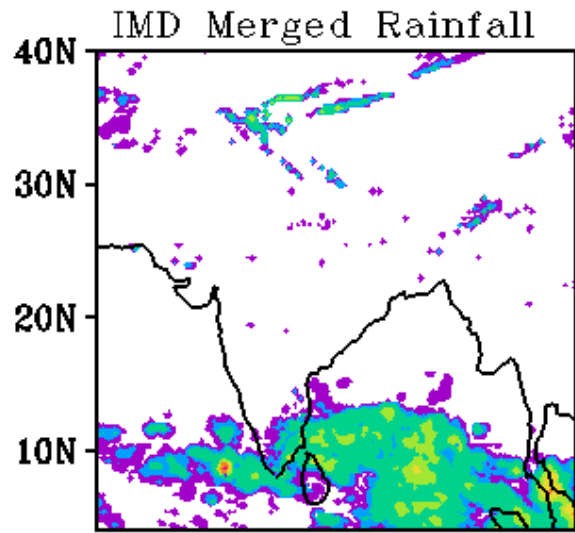




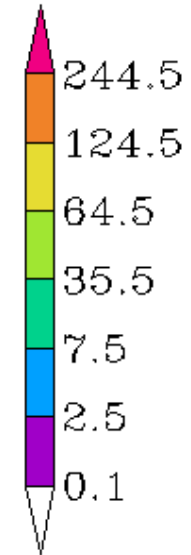




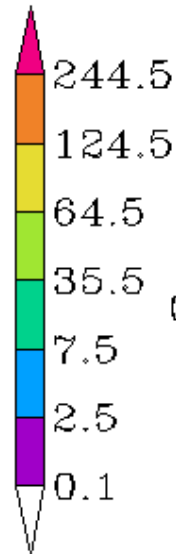




WRF Rainfall 24h FC



WRF-IMD Rainfall

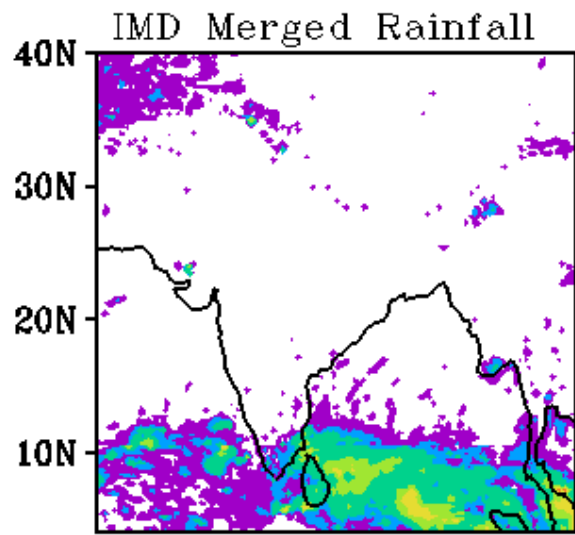


WRF Start Time

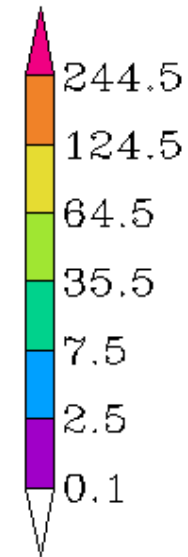
00Z 17122020

Forecast Period

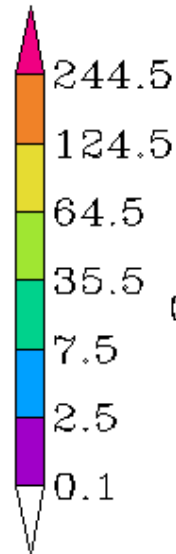
03Z 17122020-03Z 18122020



WRF Rainfall 48h FC



WRF-IMD Rainfall

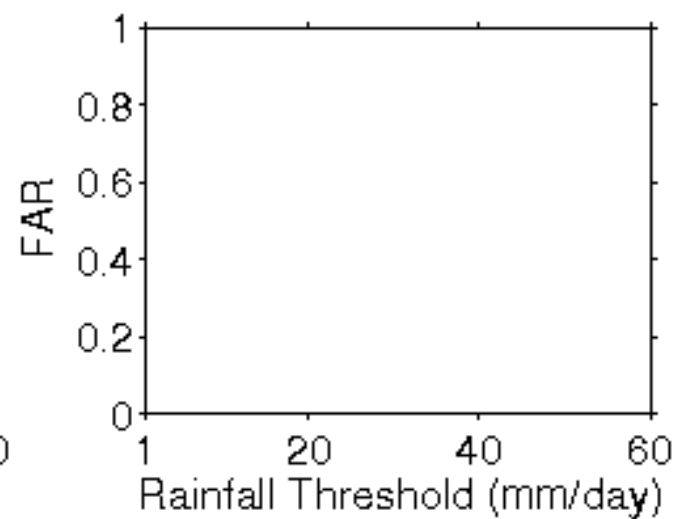
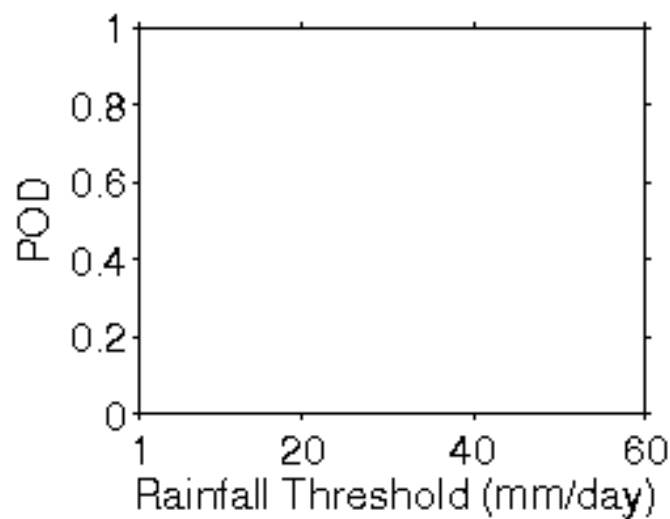
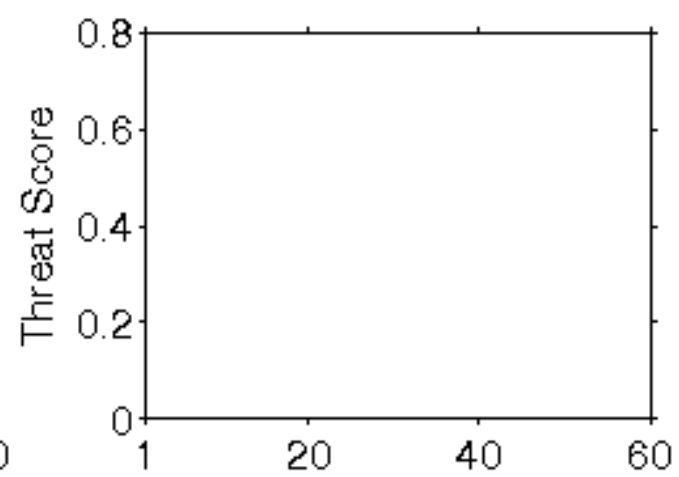
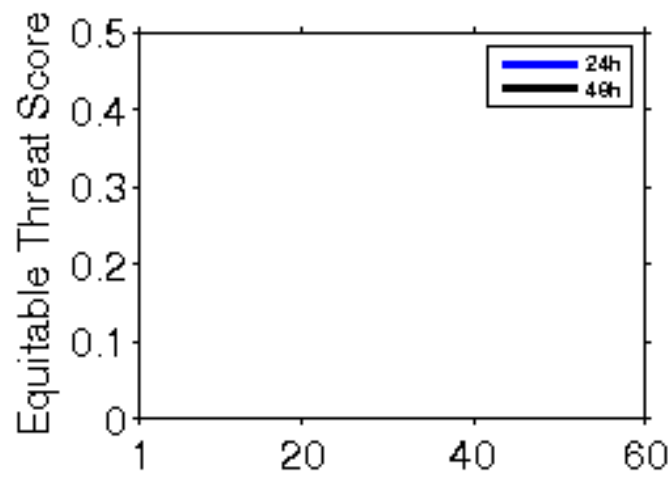


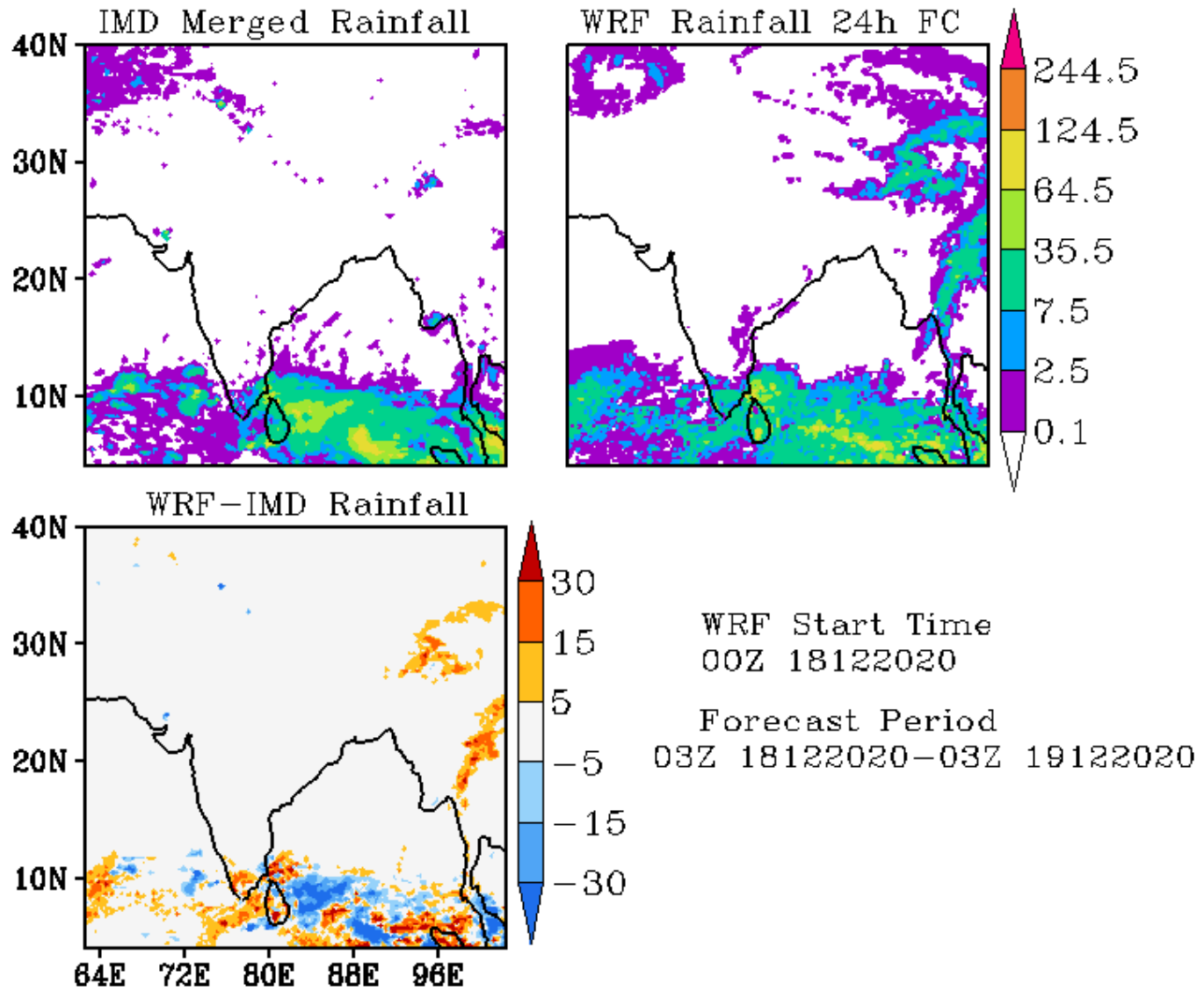
WRF Start Time

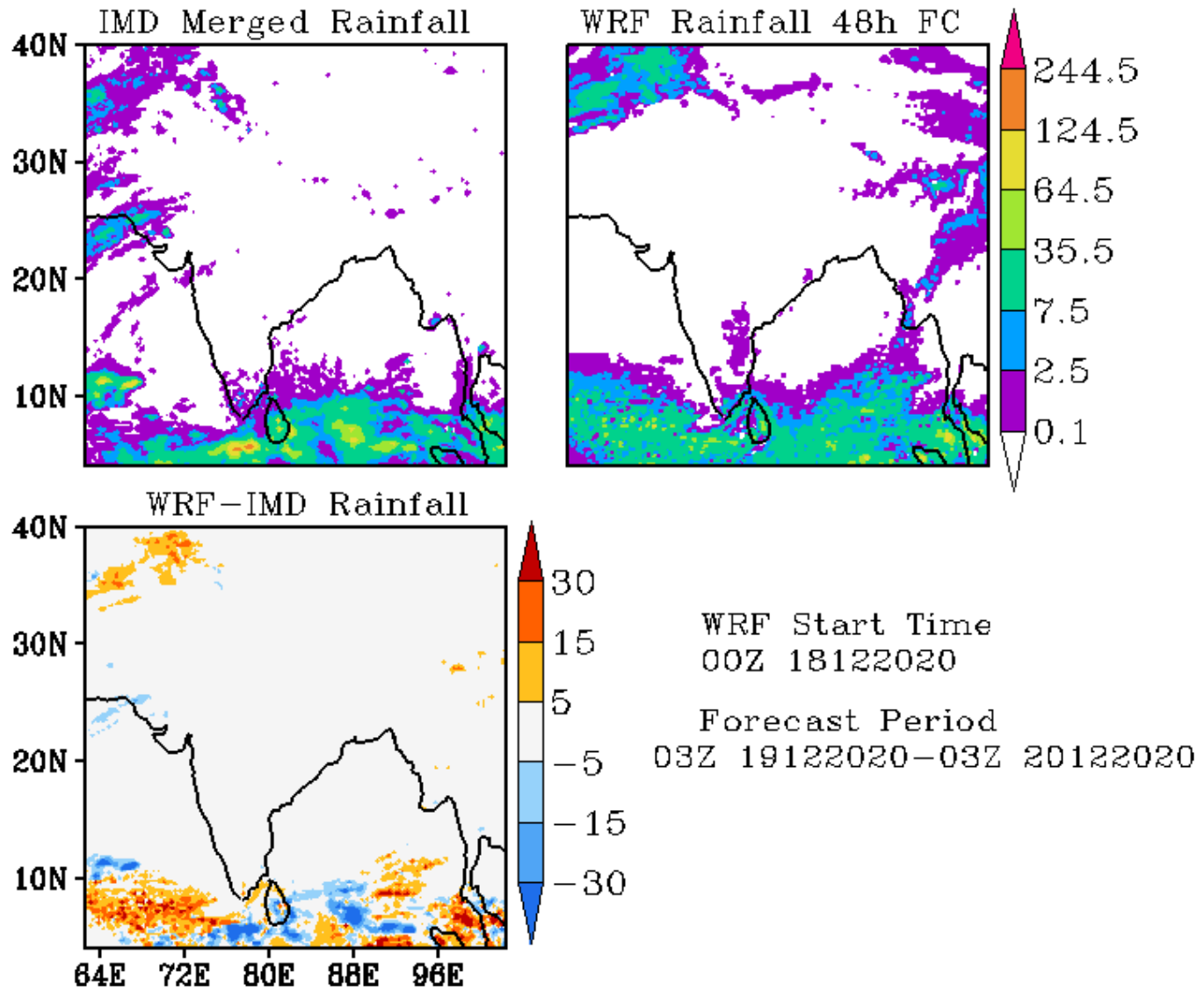
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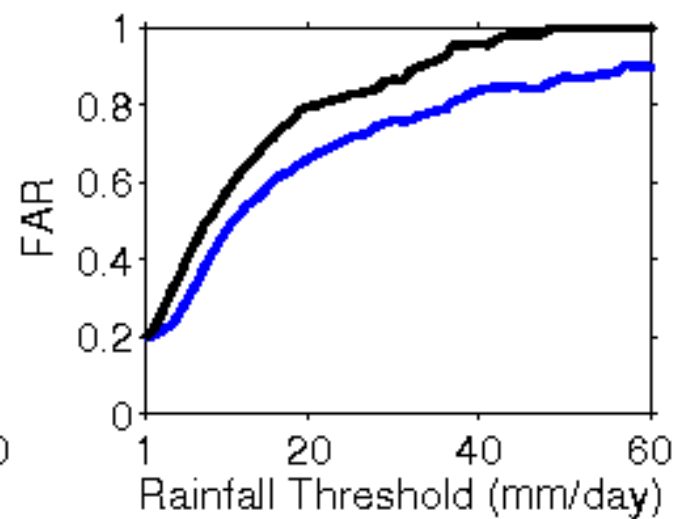
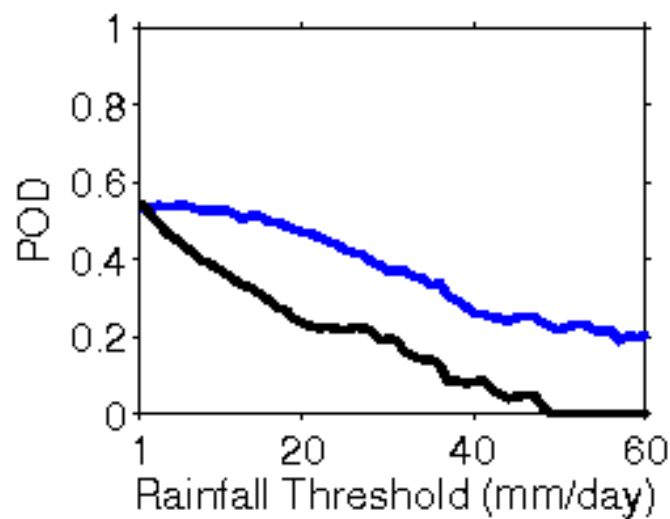
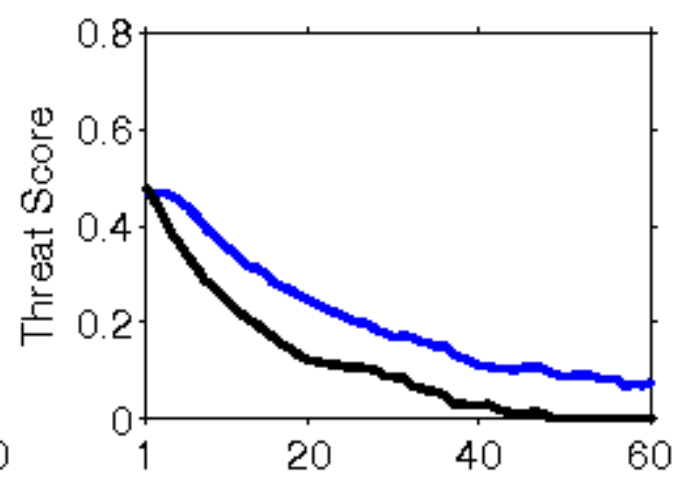
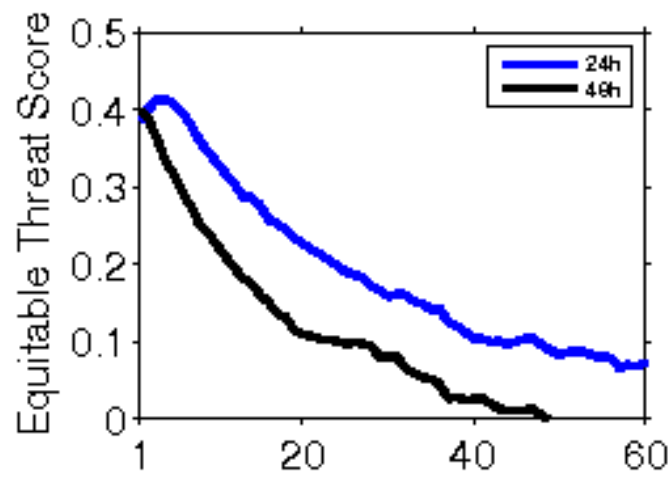
Forecast Period

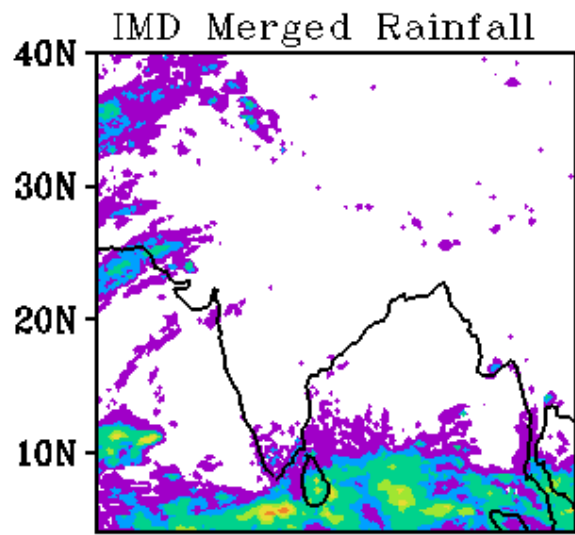
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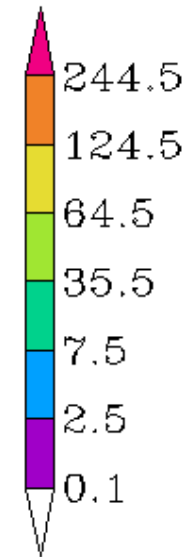




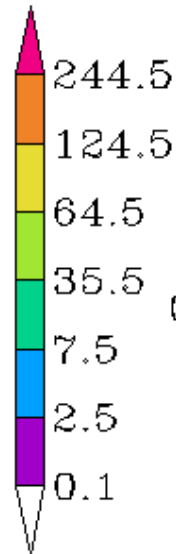




WRF Rainfall 24h FC



WRF-IMD Rainfall

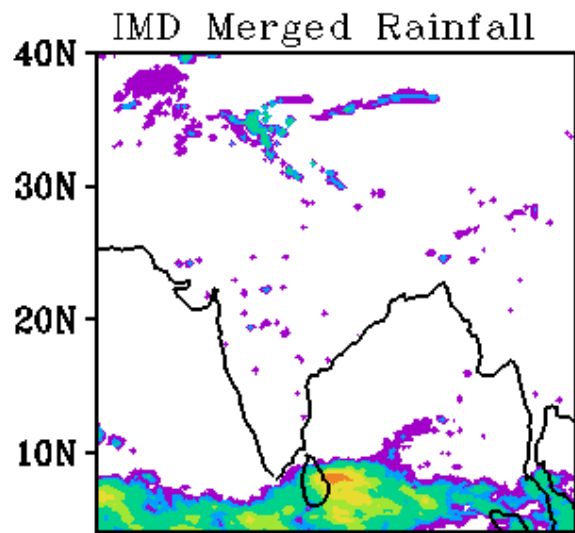


WRF Start Time

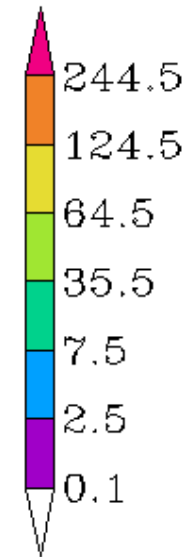
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Forecast Period

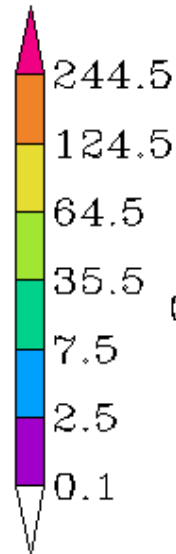
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WRF Rainfall 48h FC



WRF-IMD Rainfall

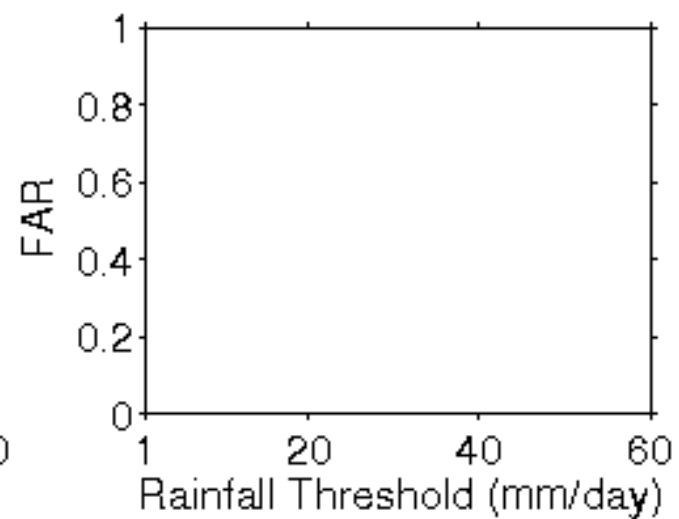
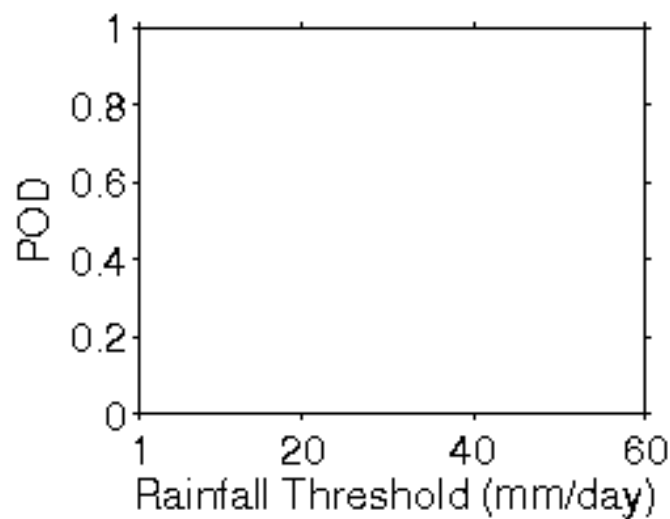
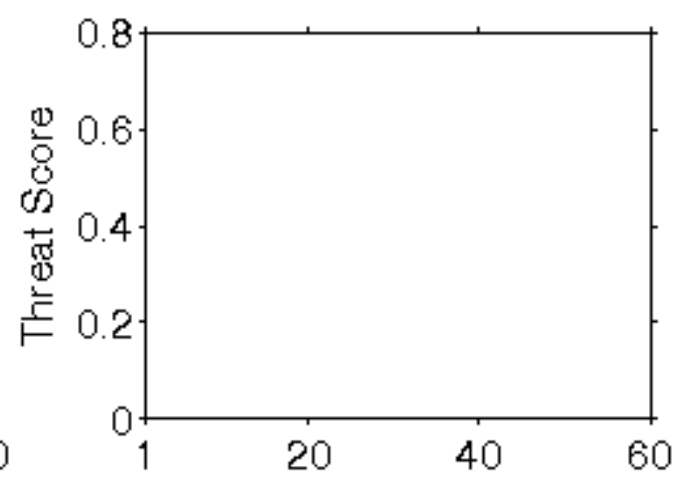
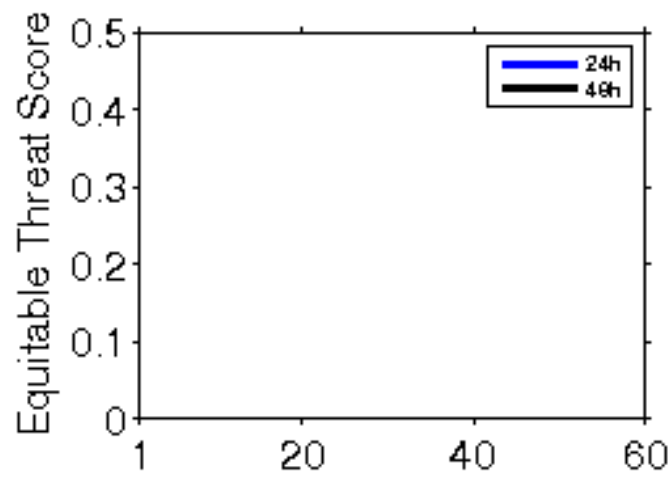


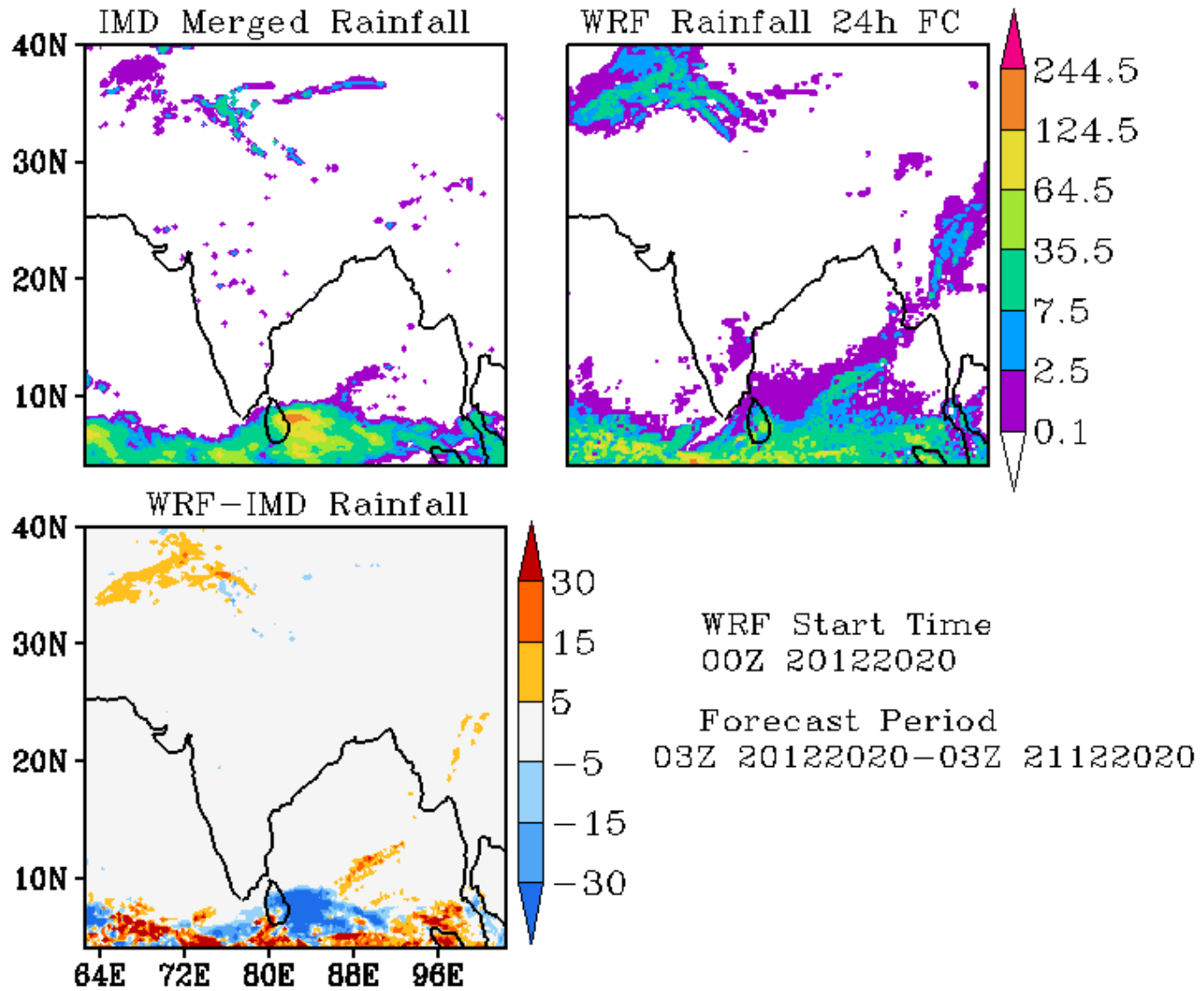
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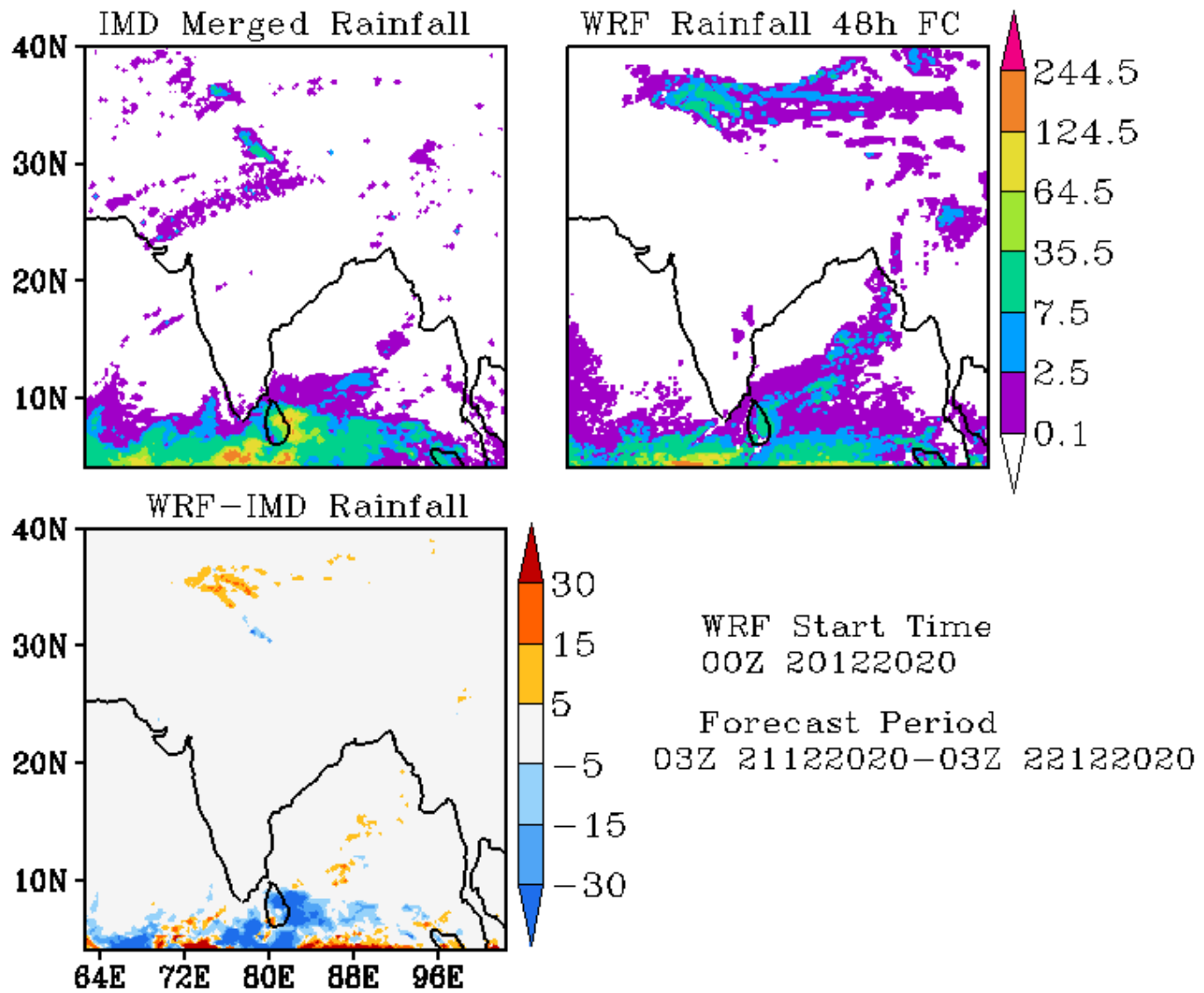
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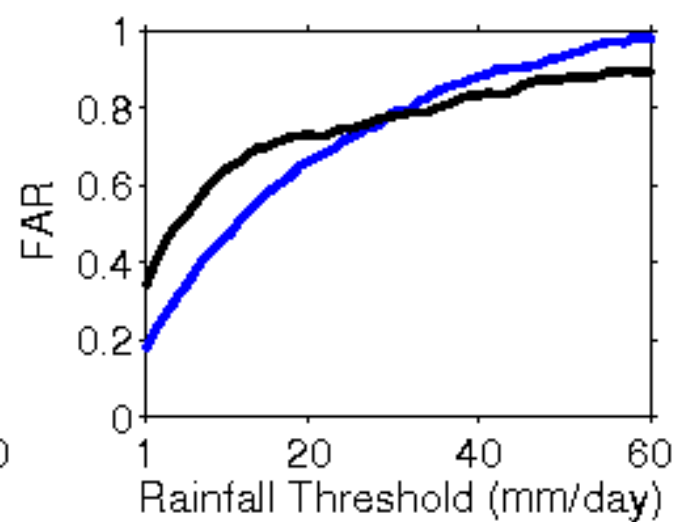
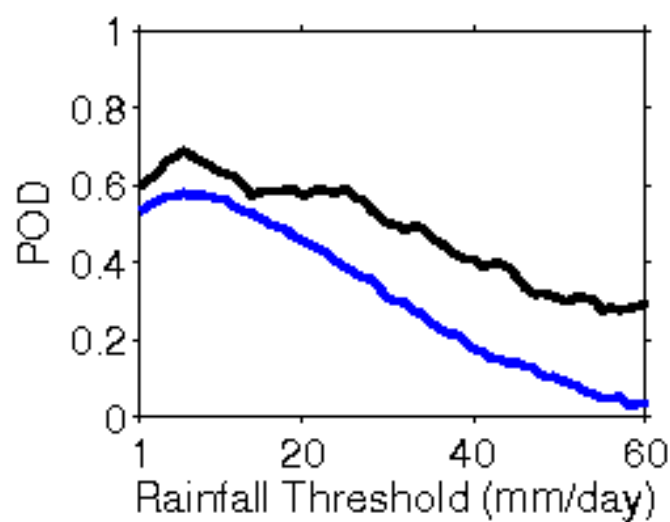
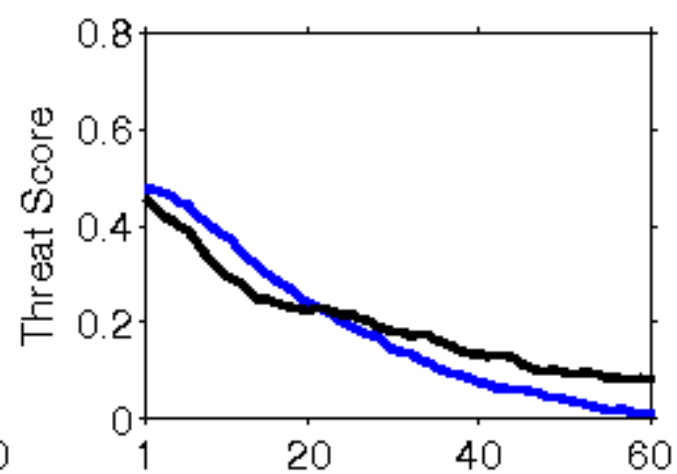
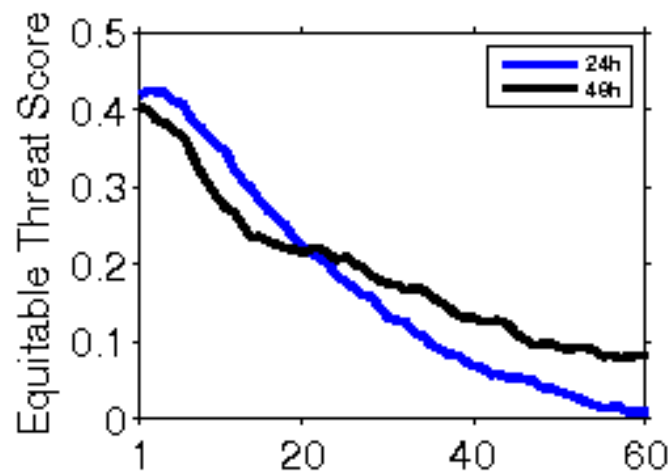
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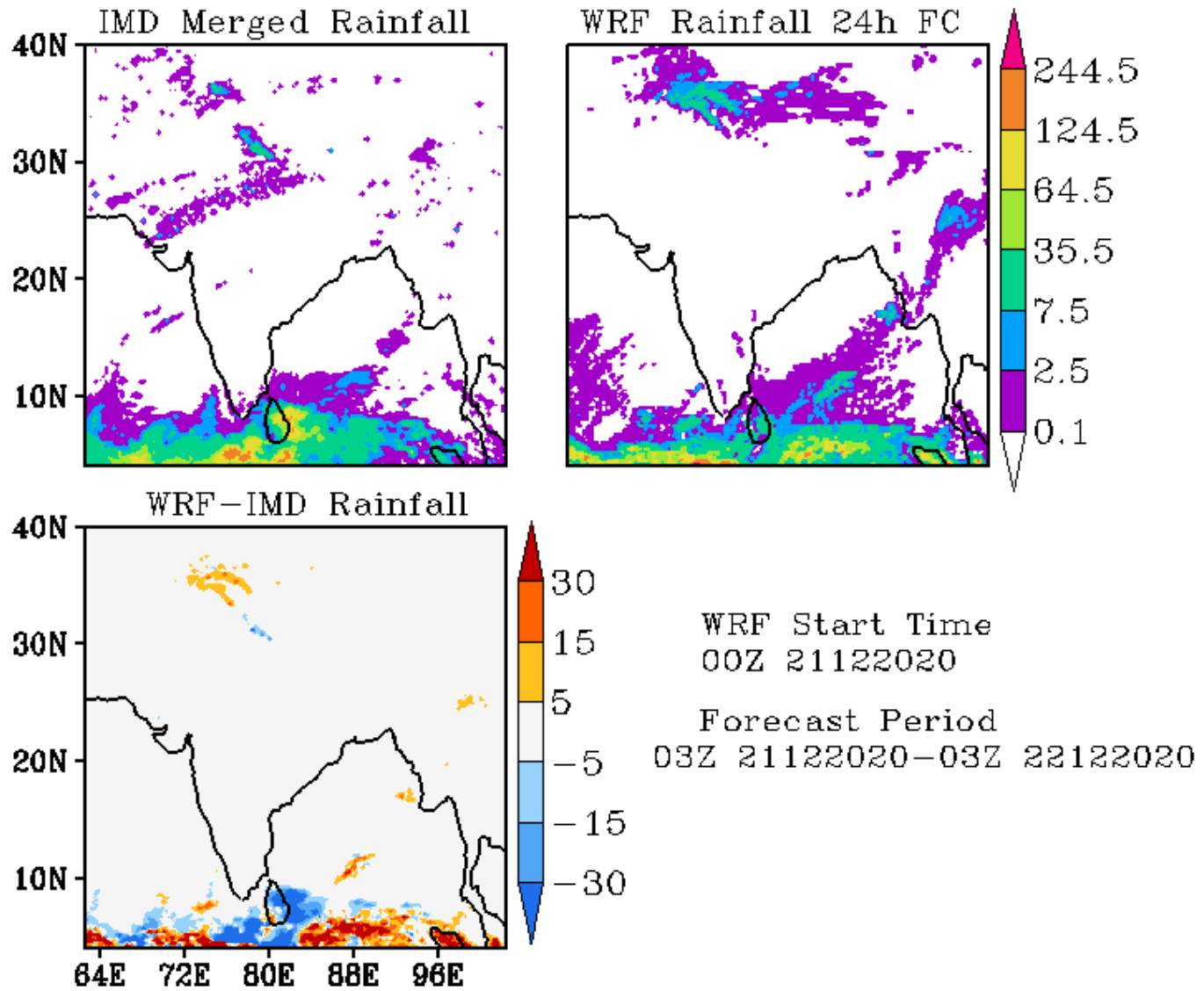
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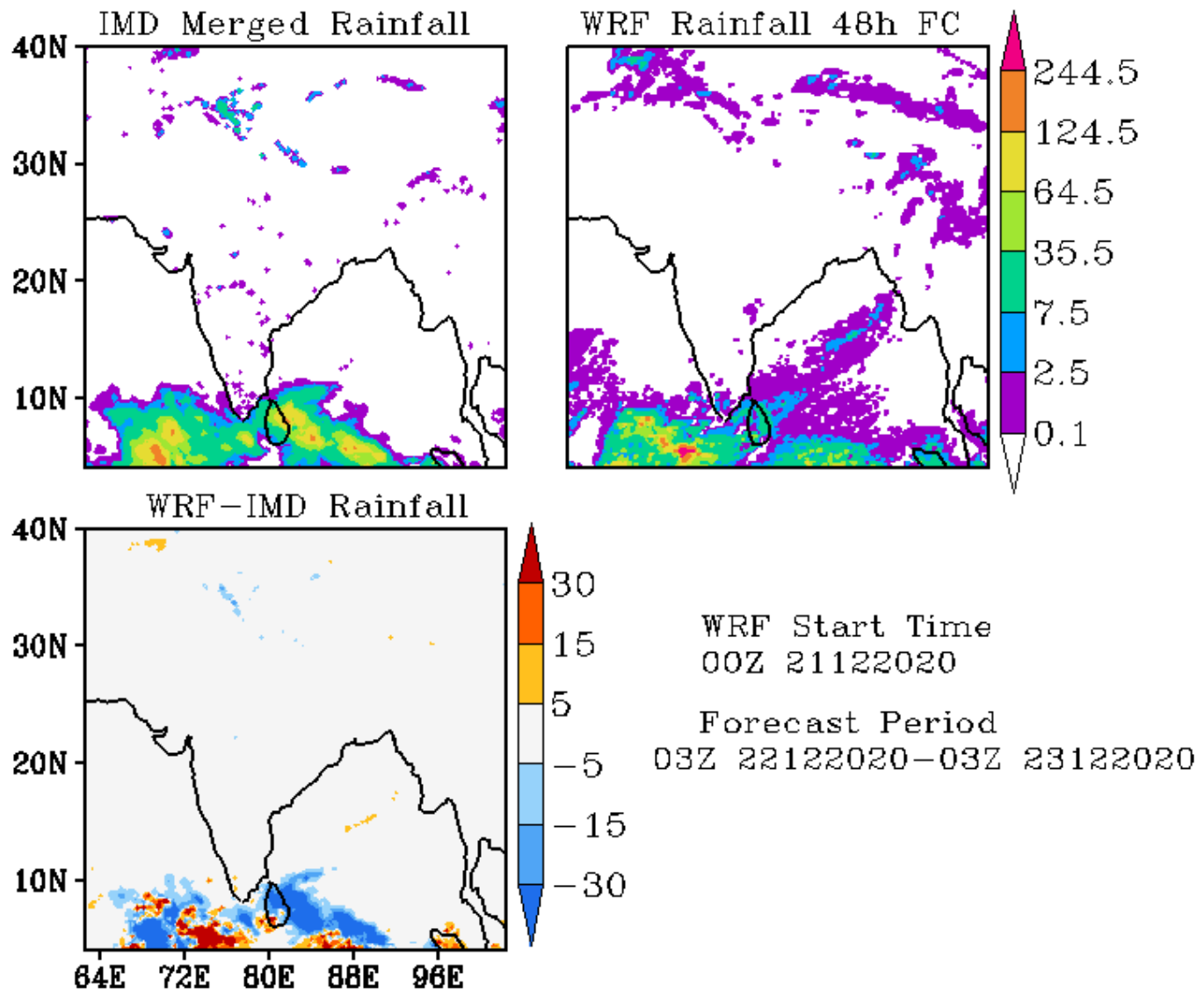


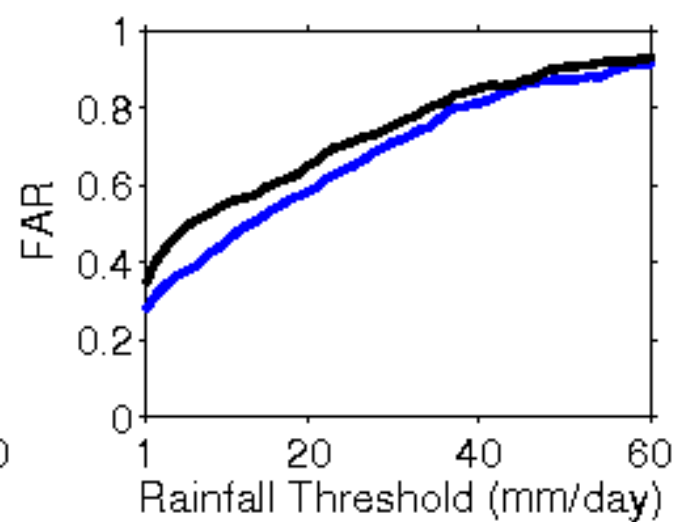
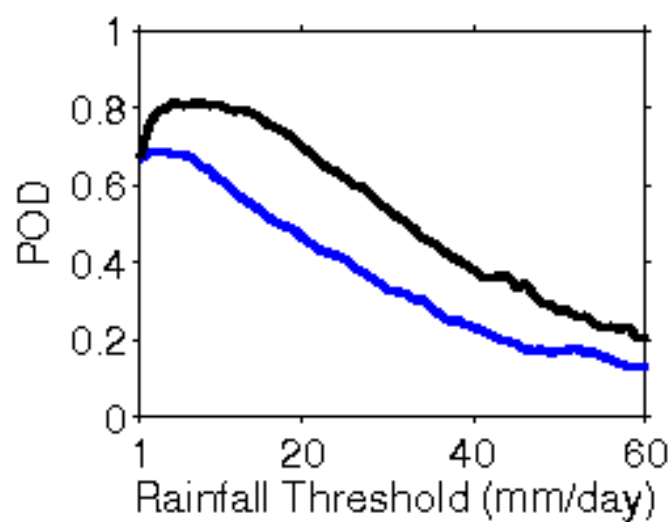
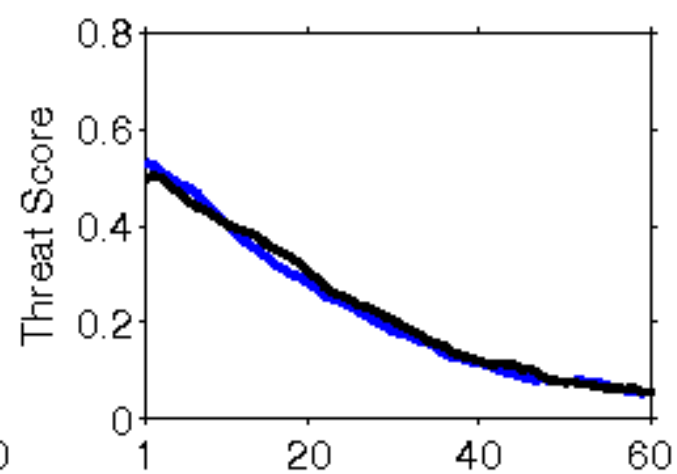
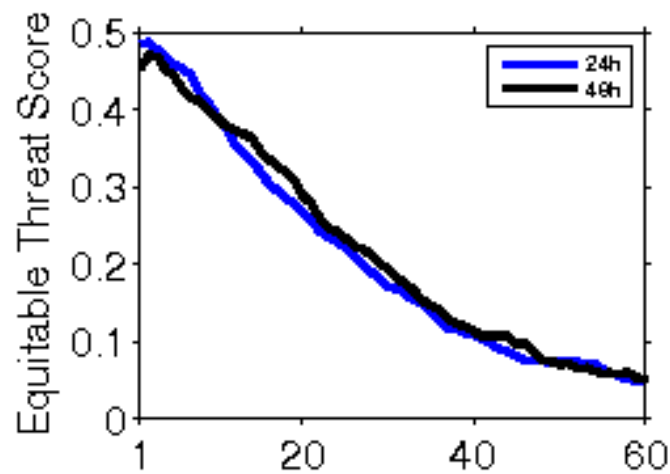


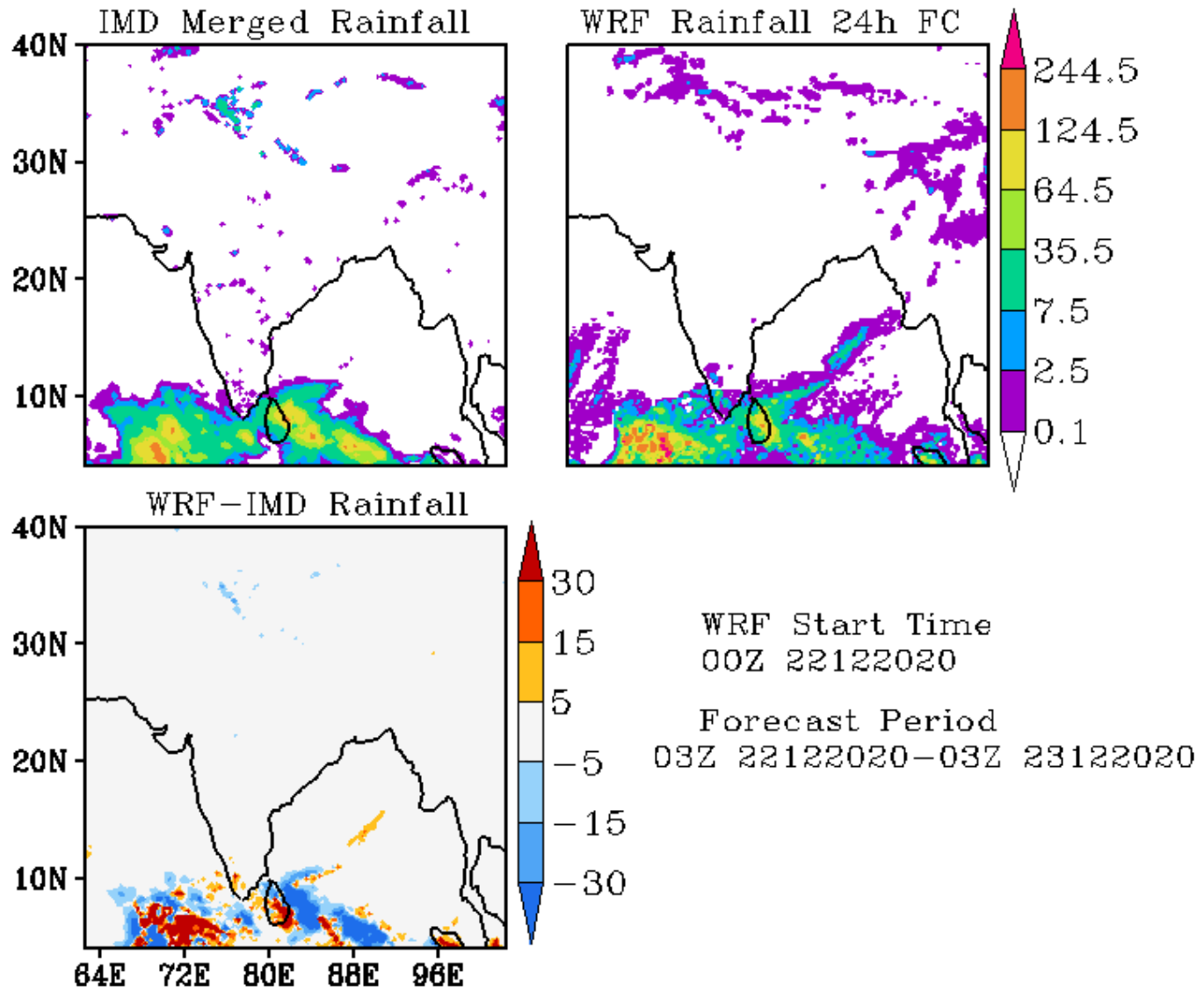


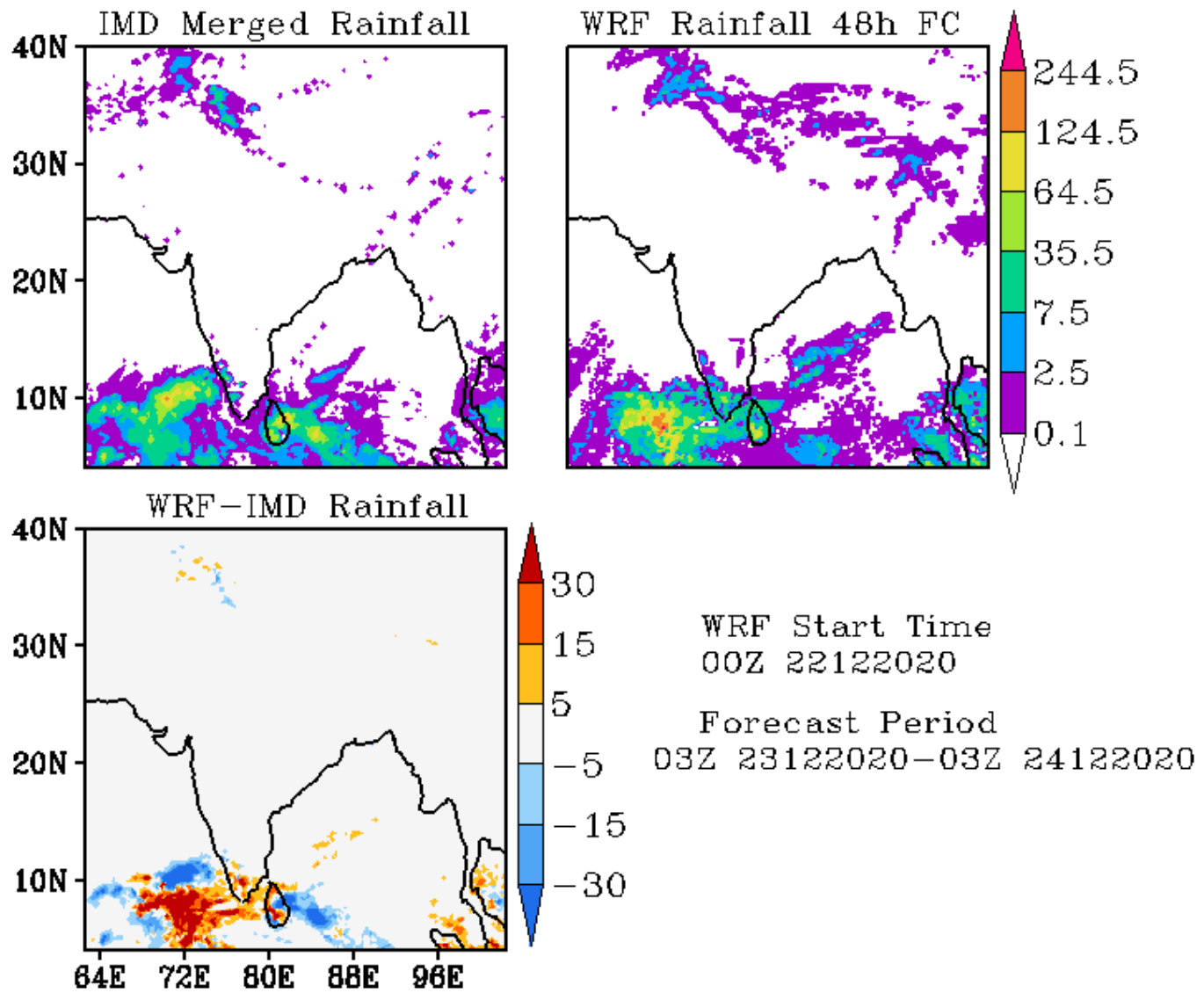


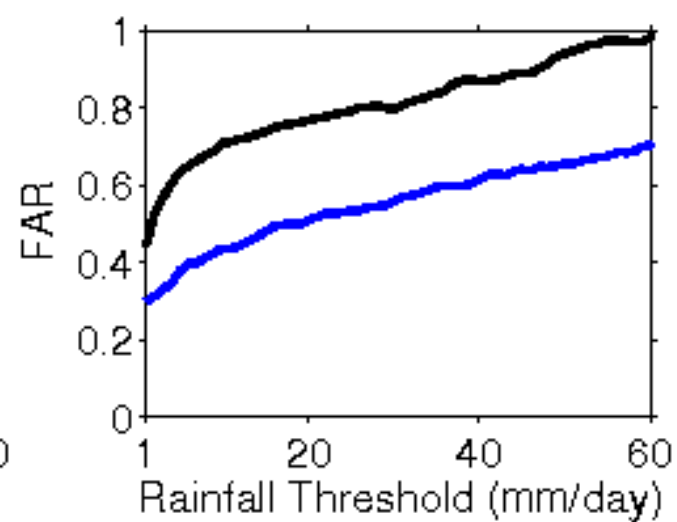
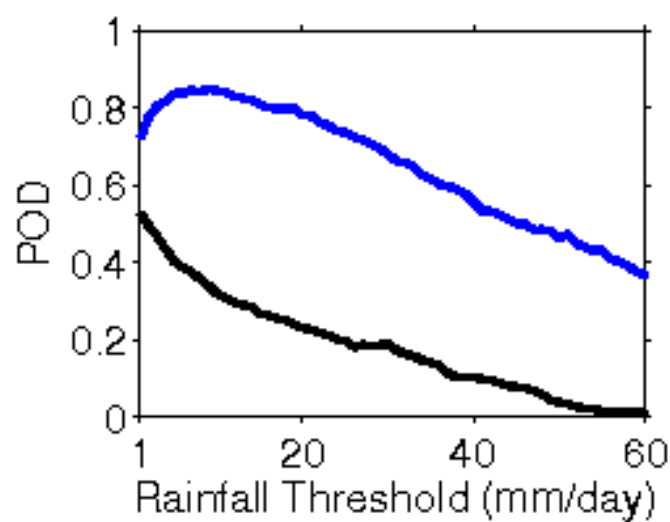
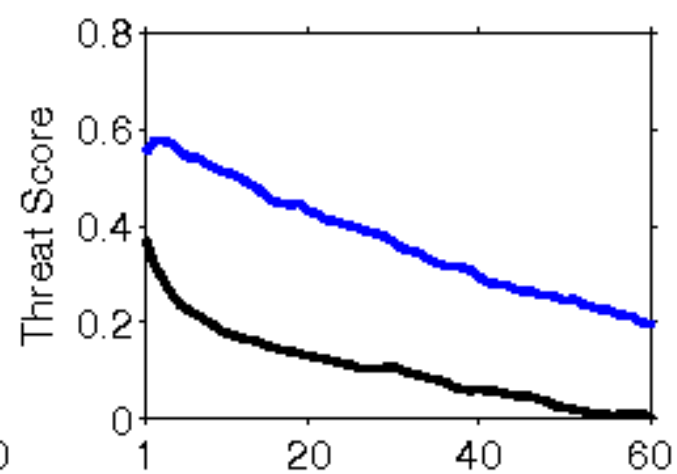
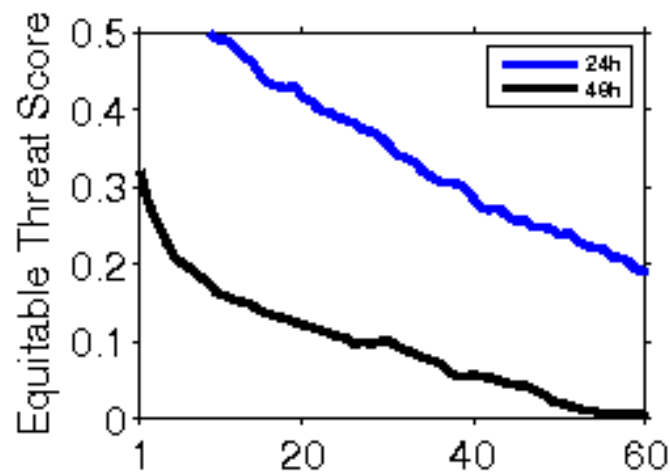


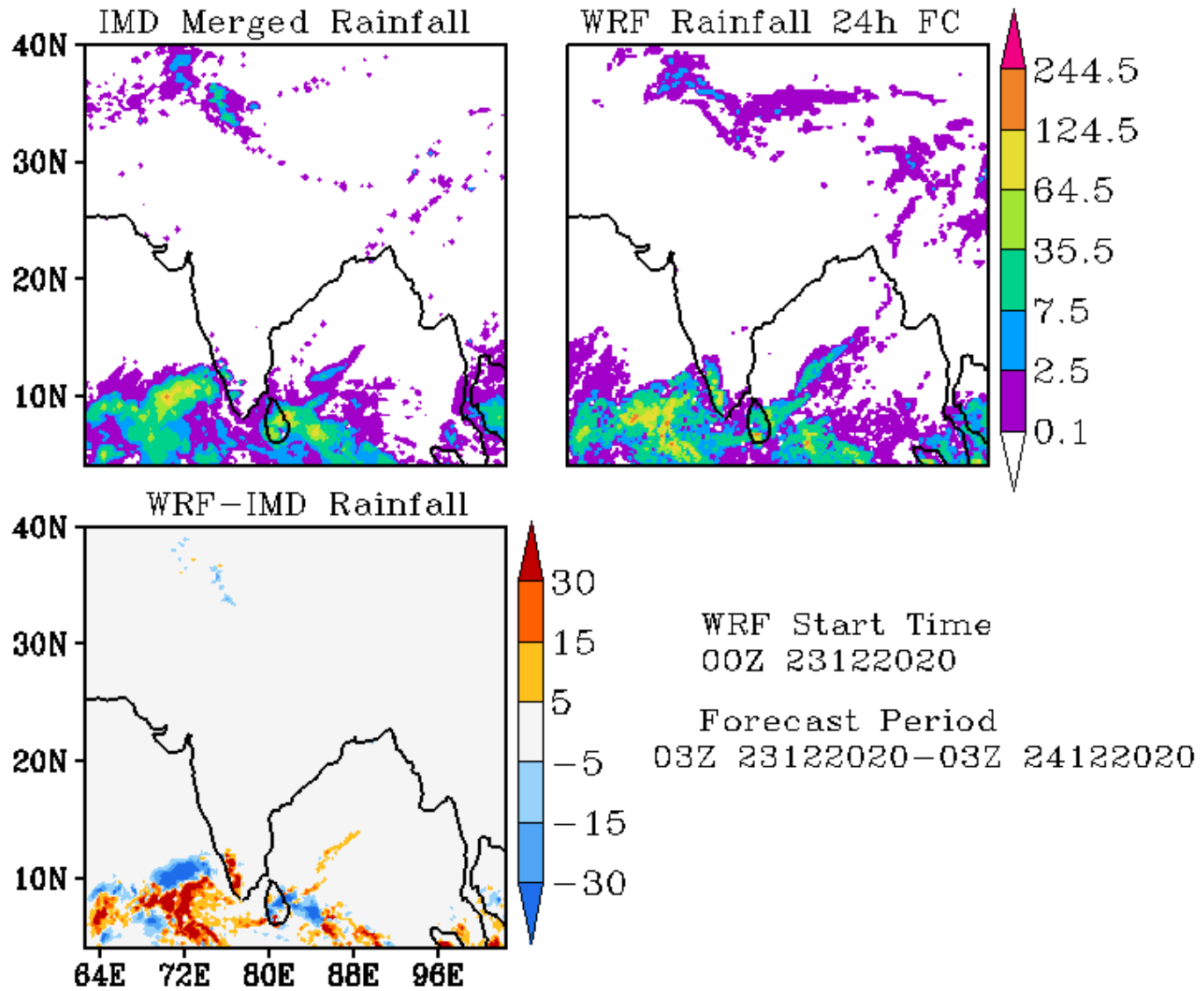


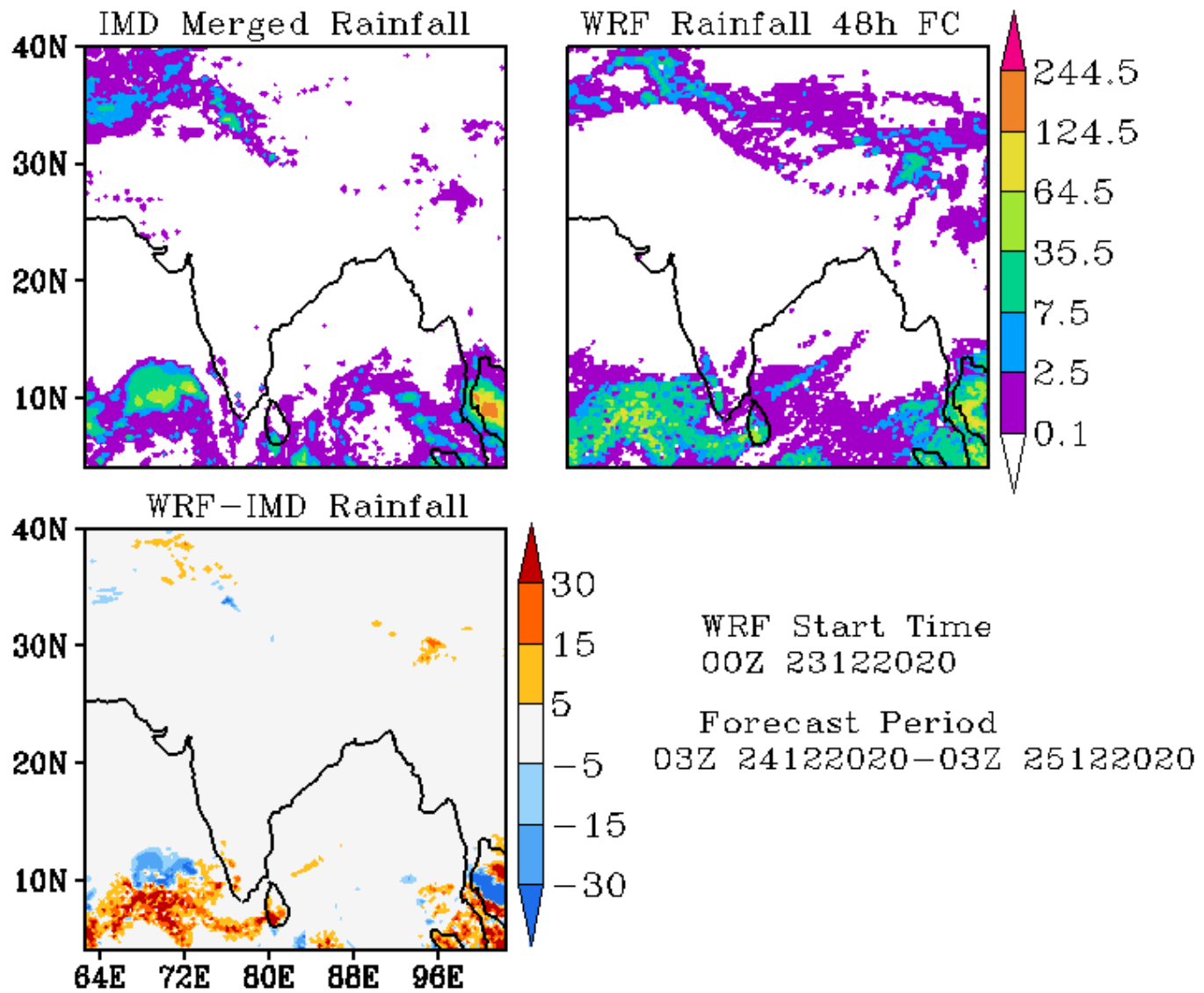


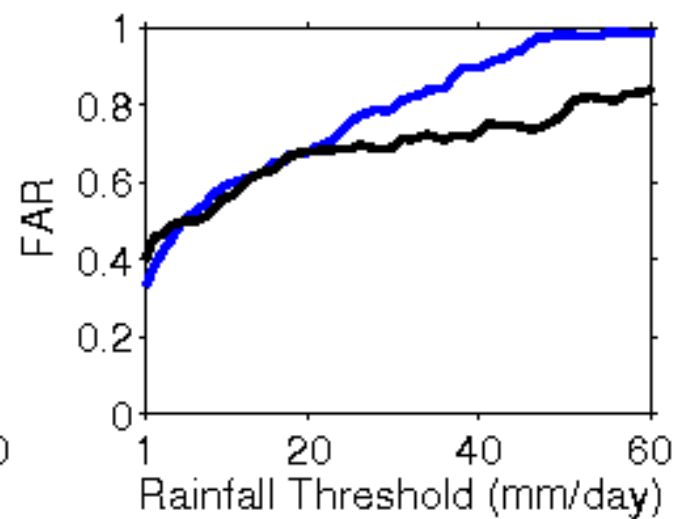
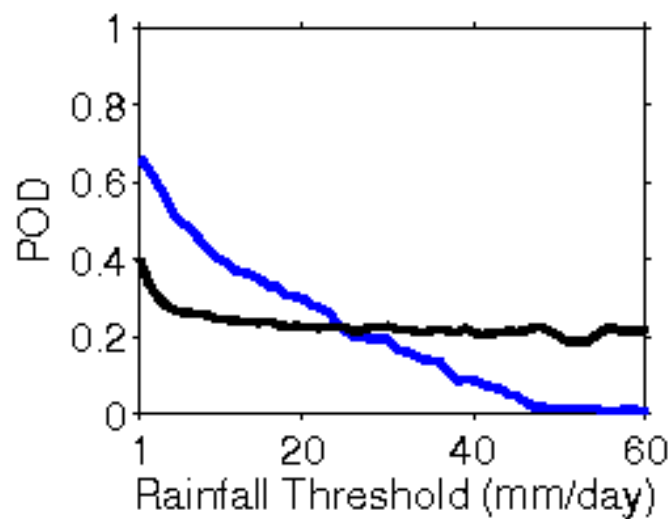
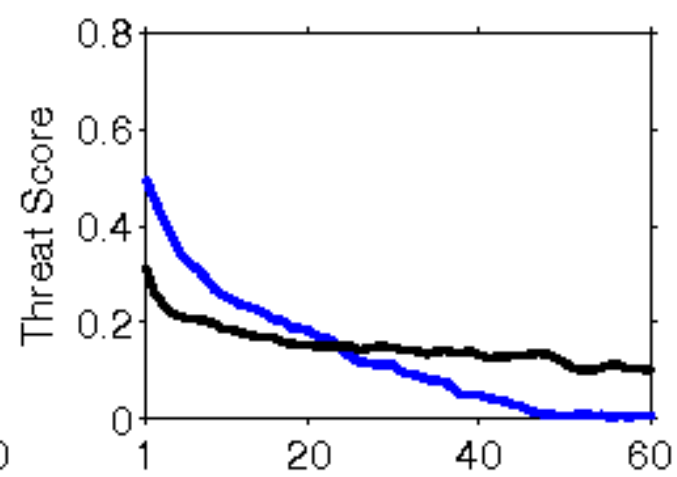
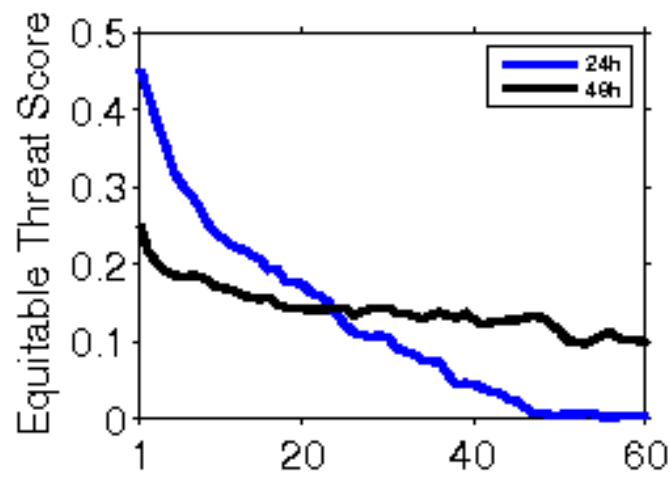


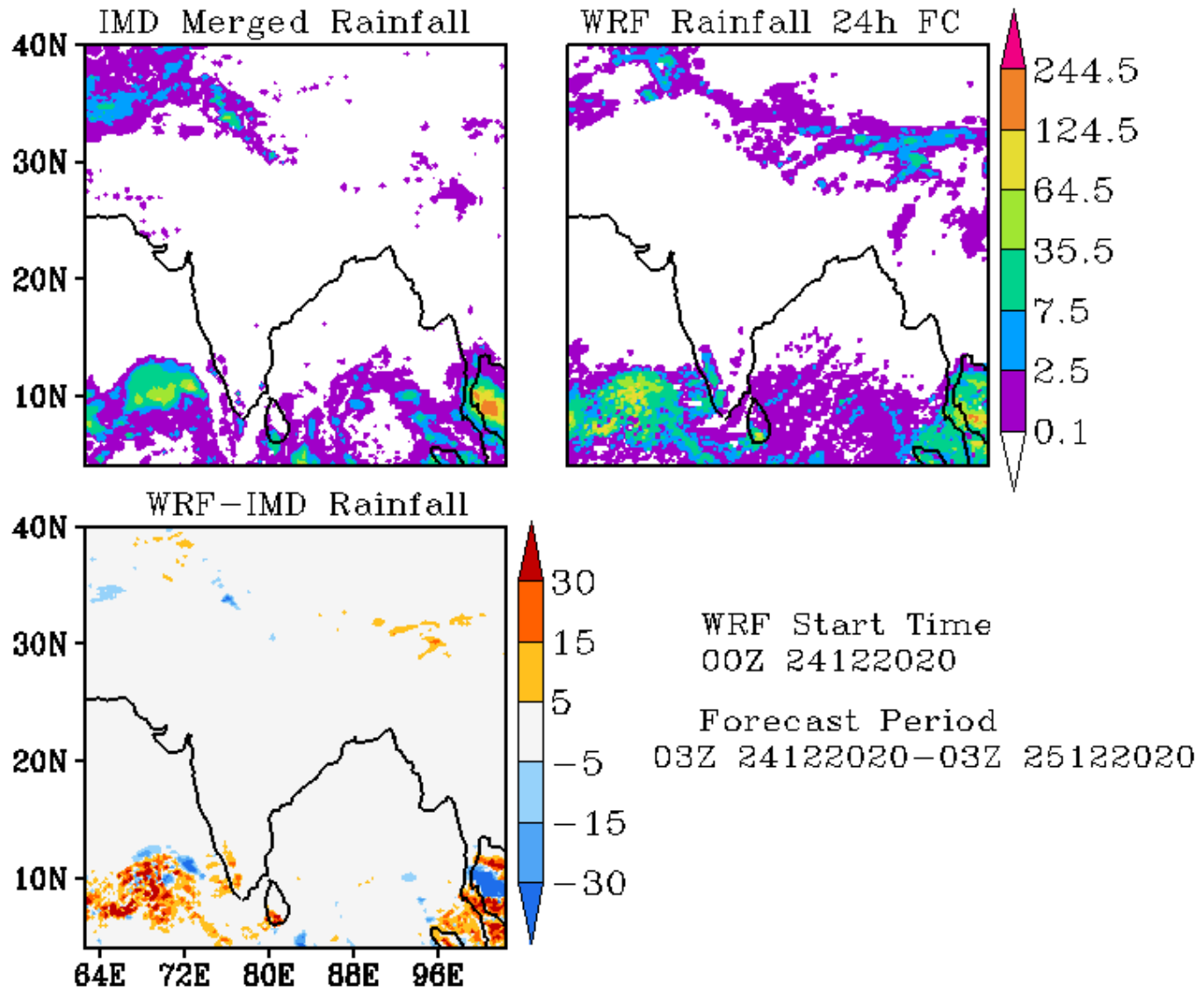


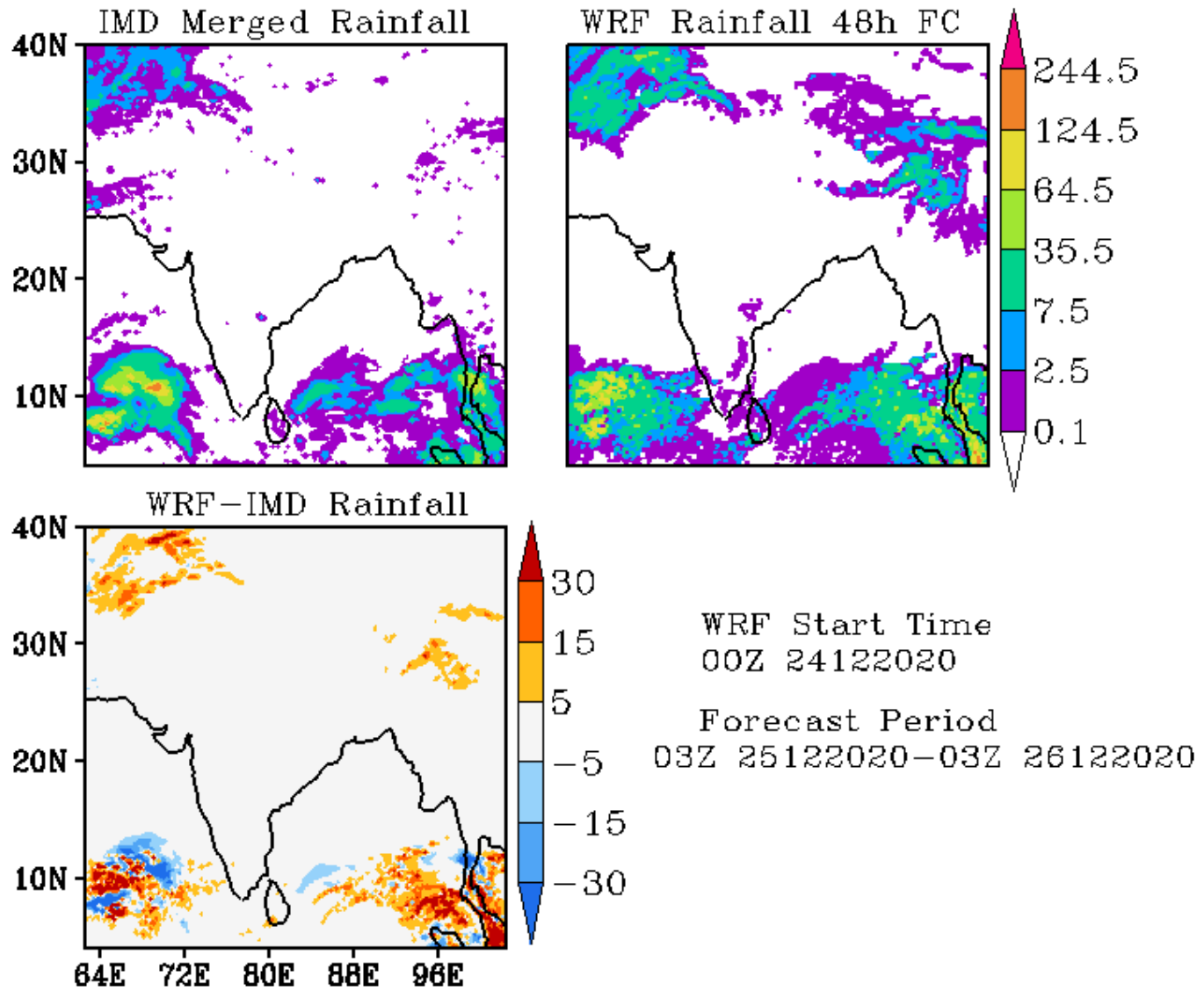


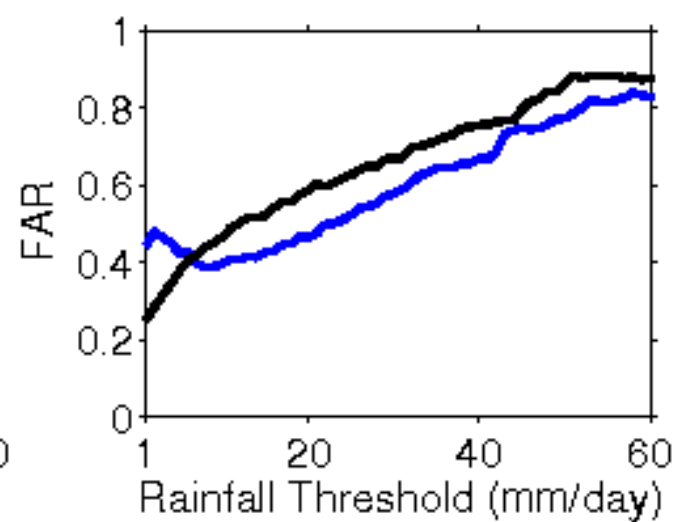
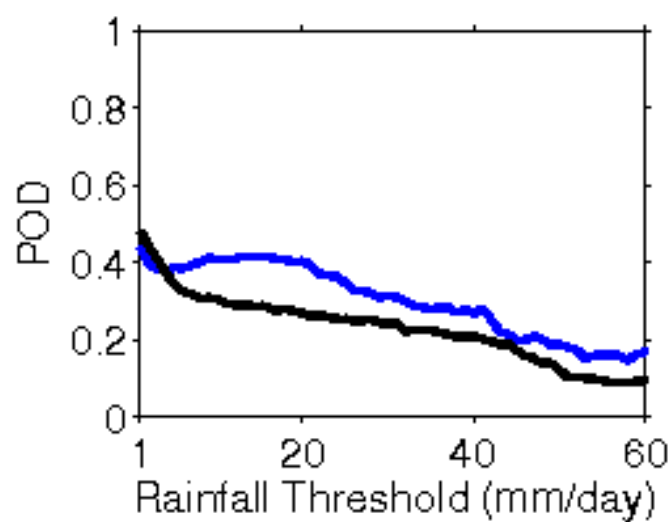
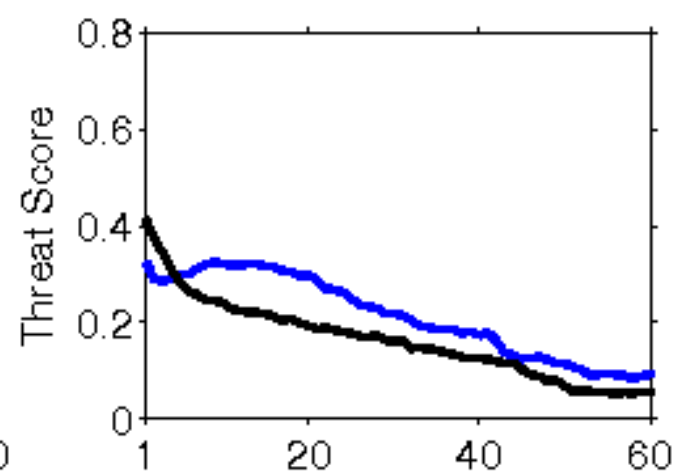
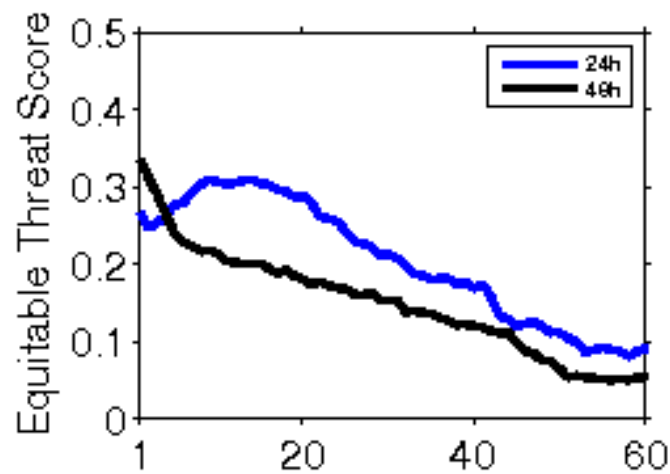


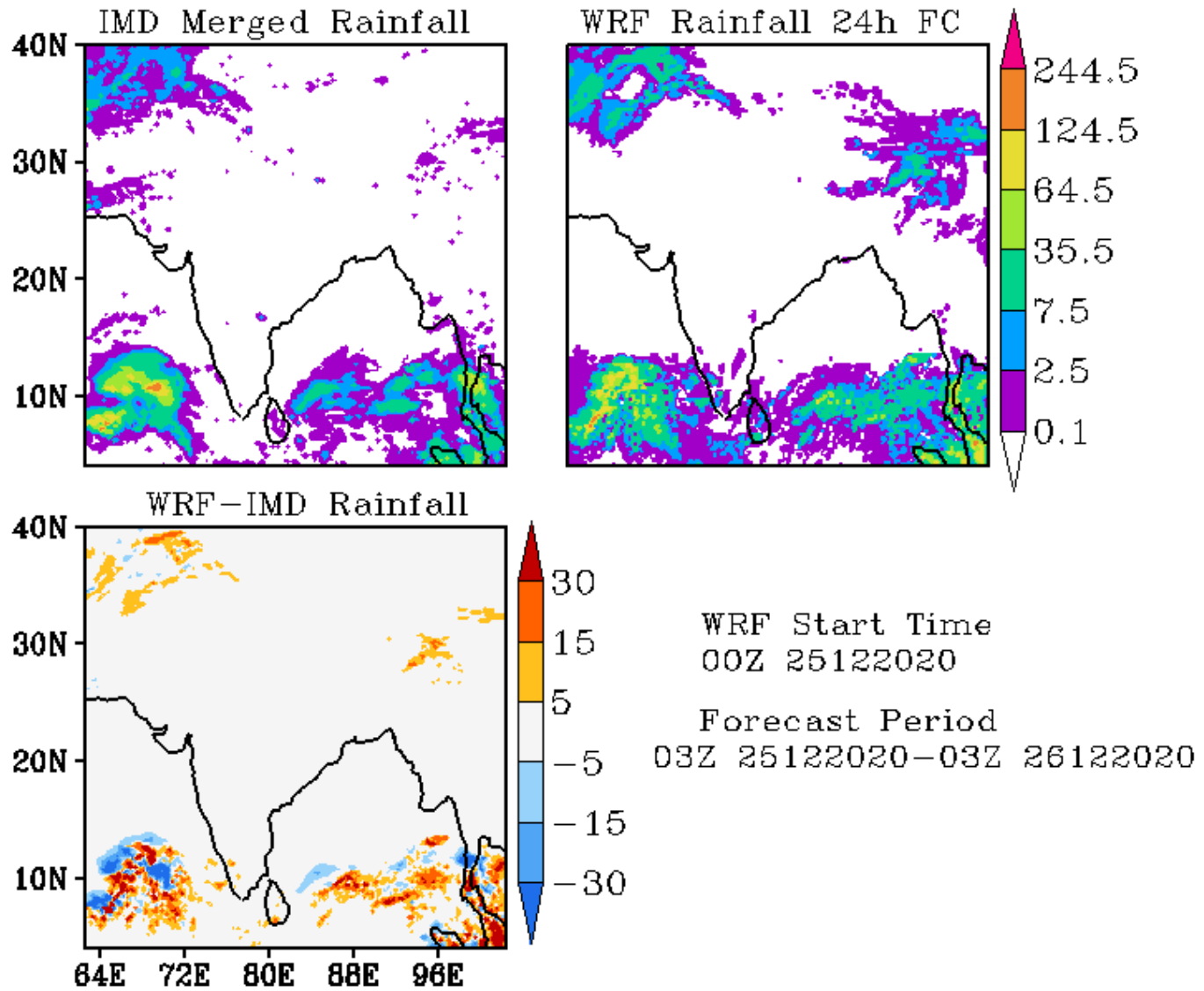


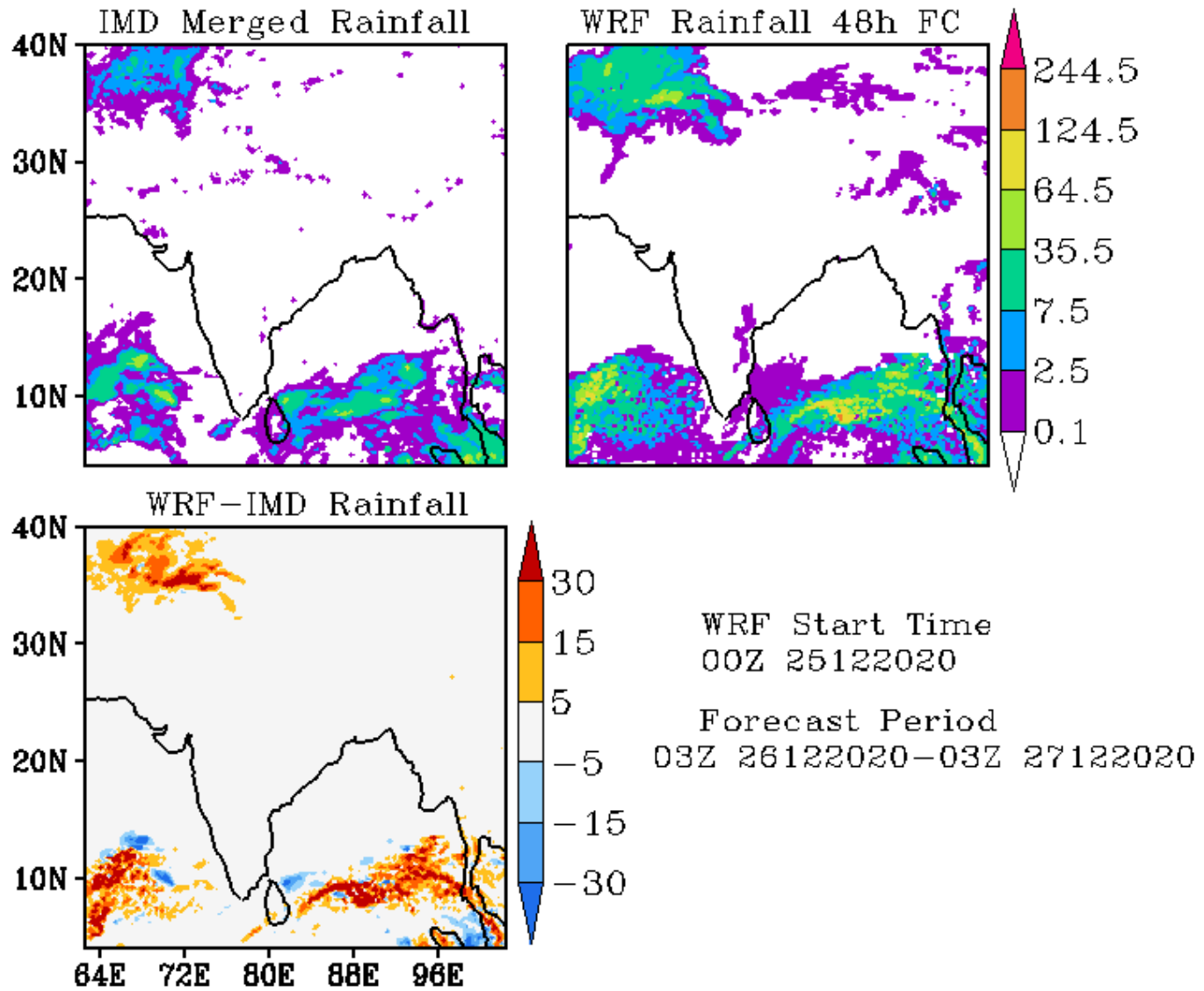


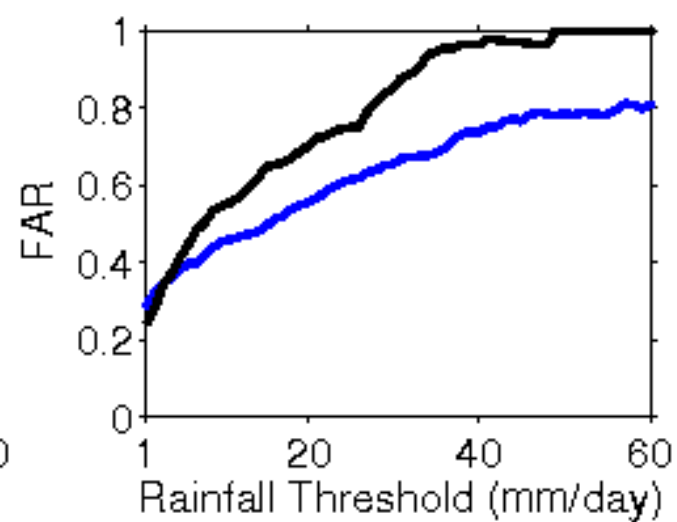
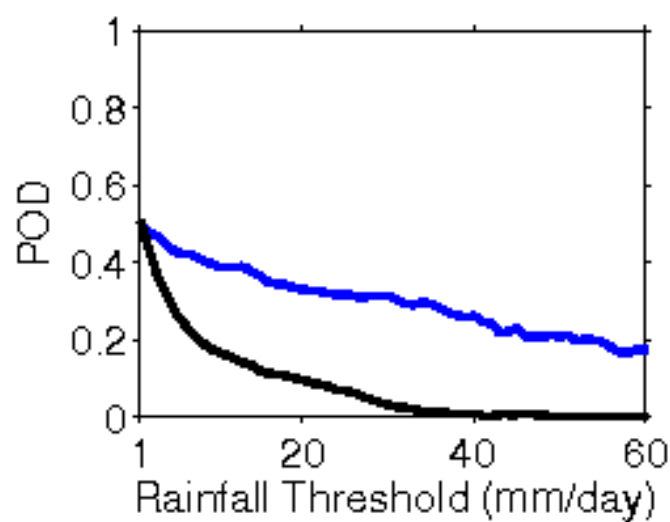
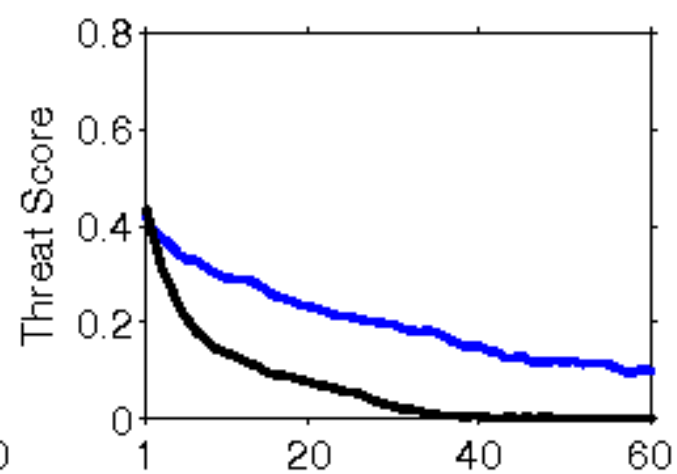
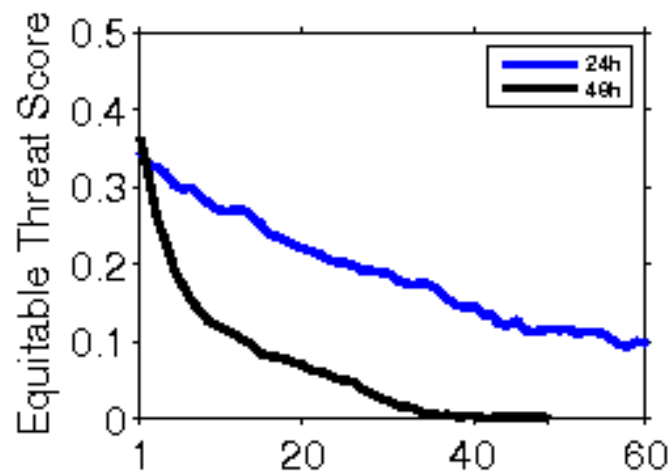


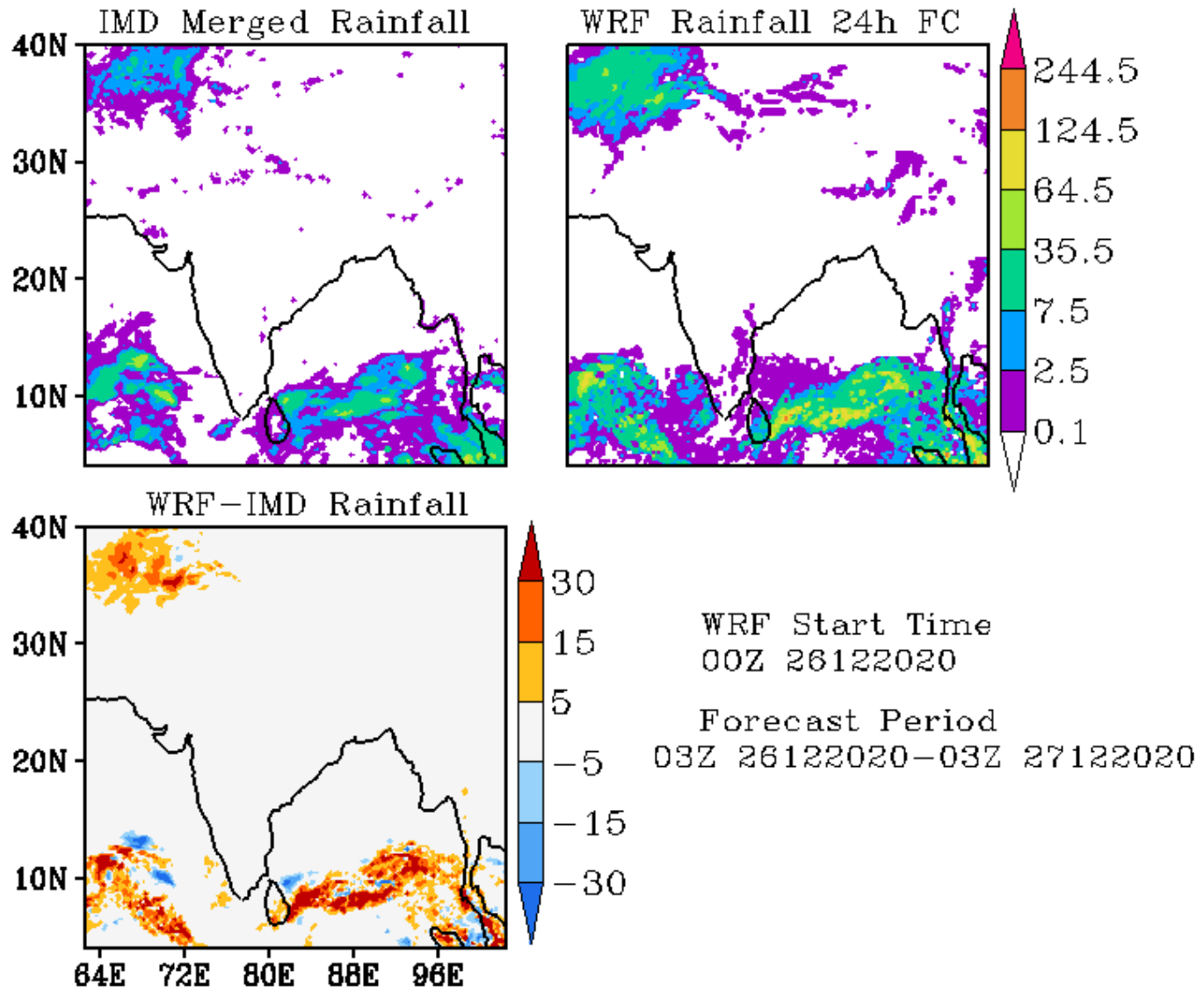


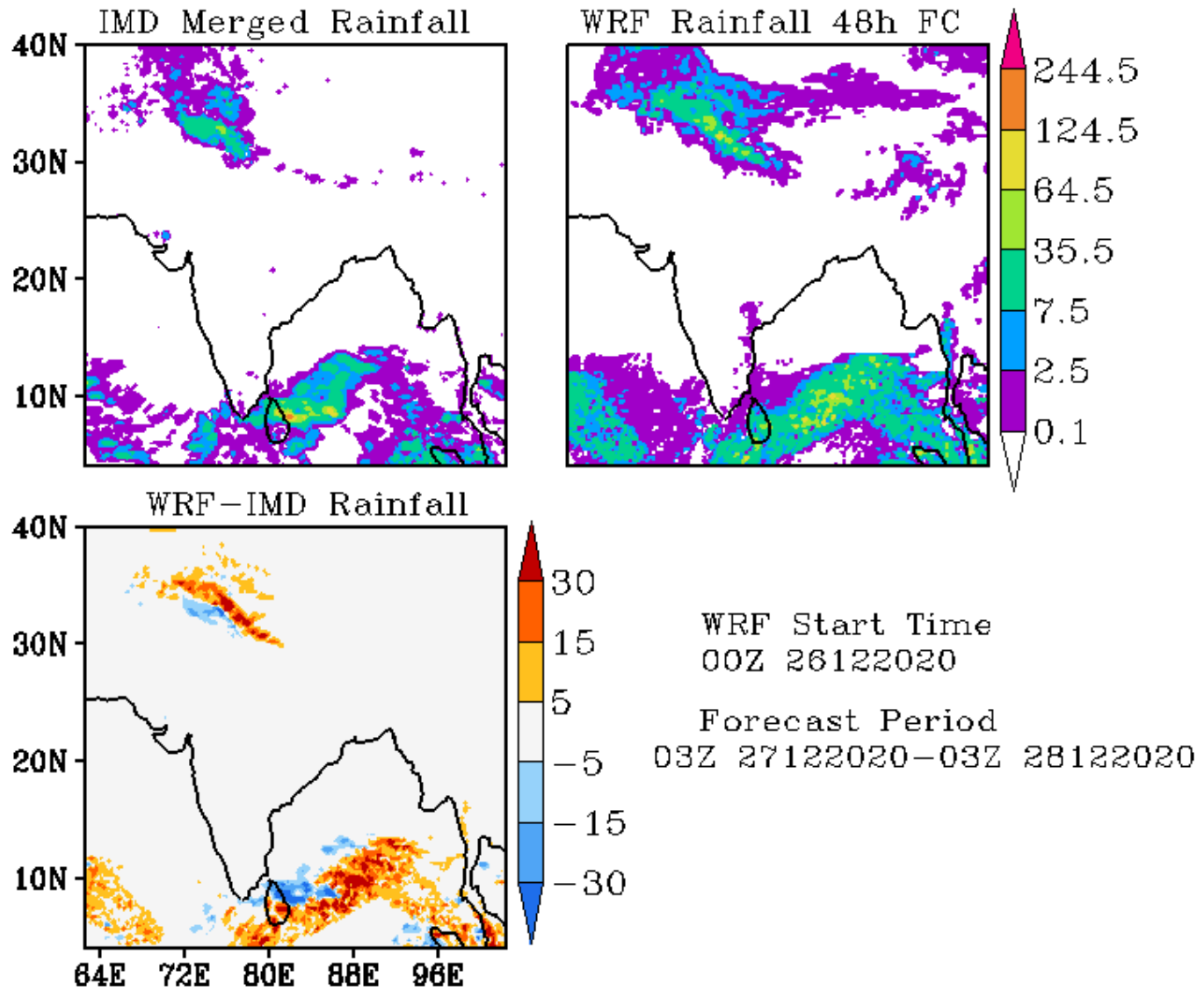


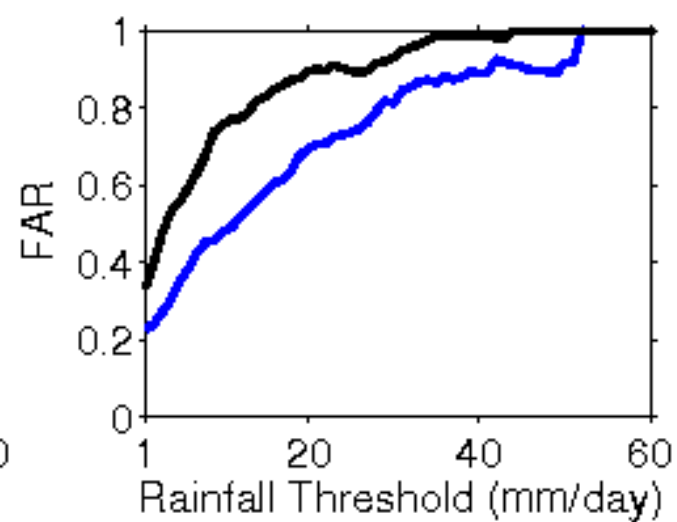
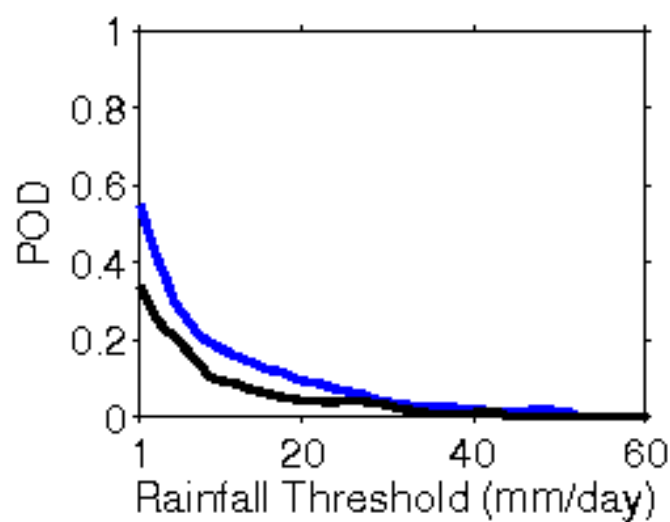
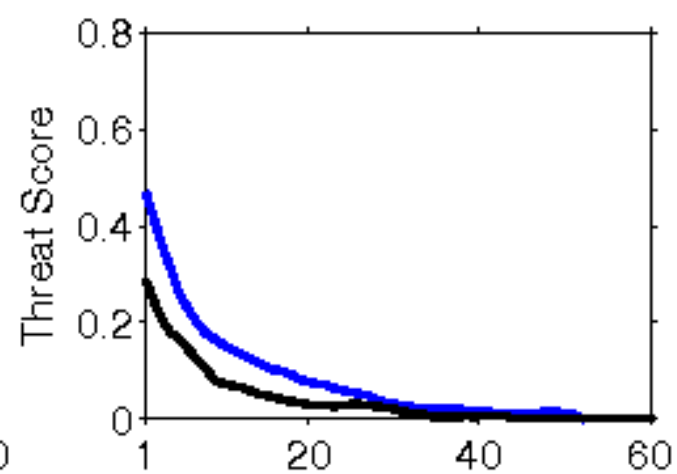
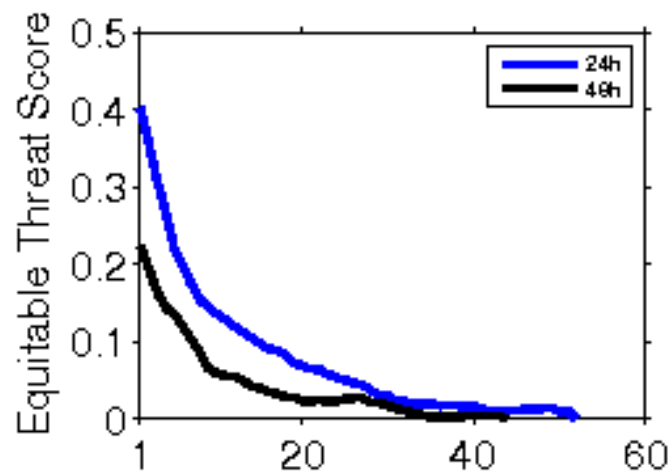


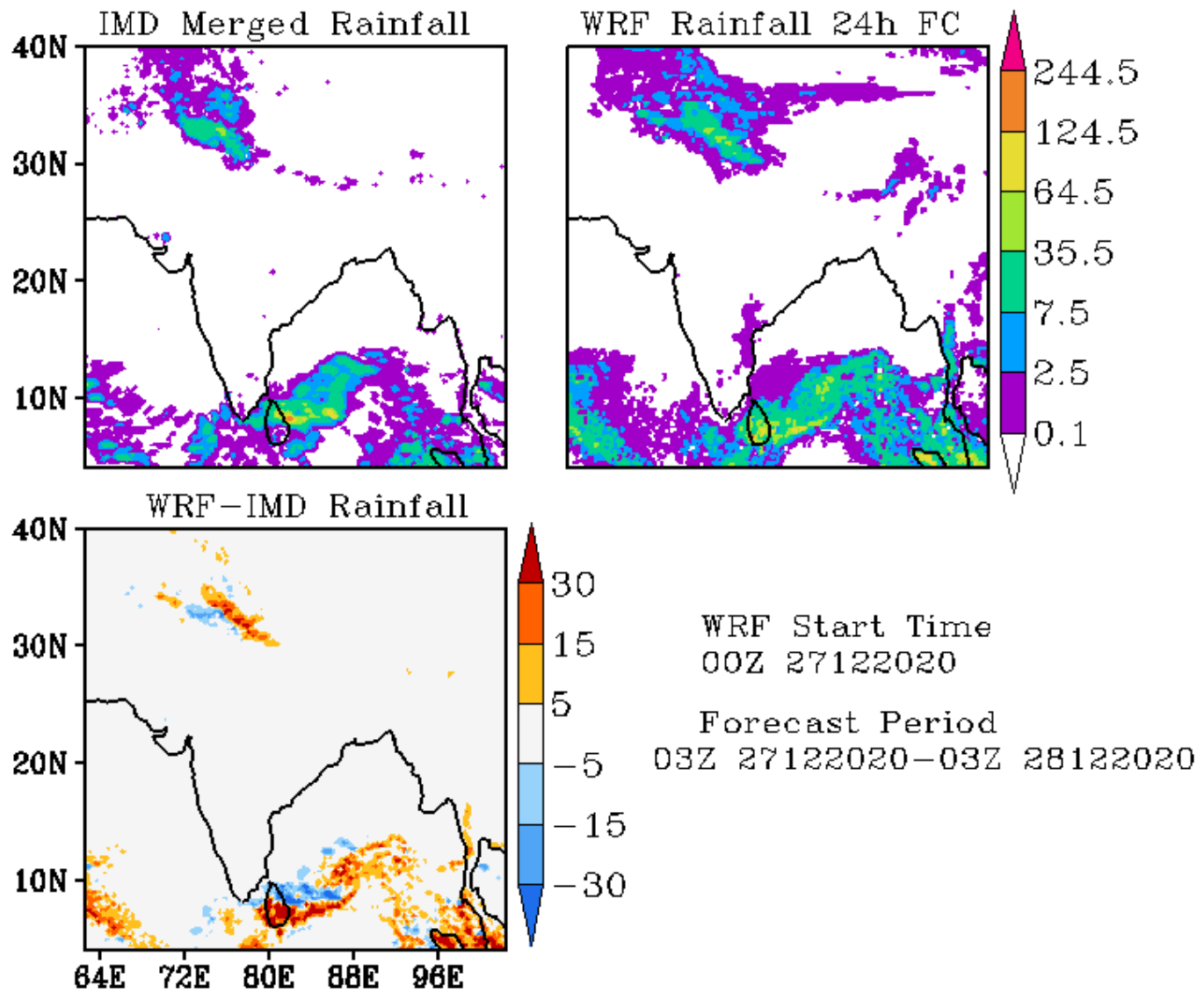


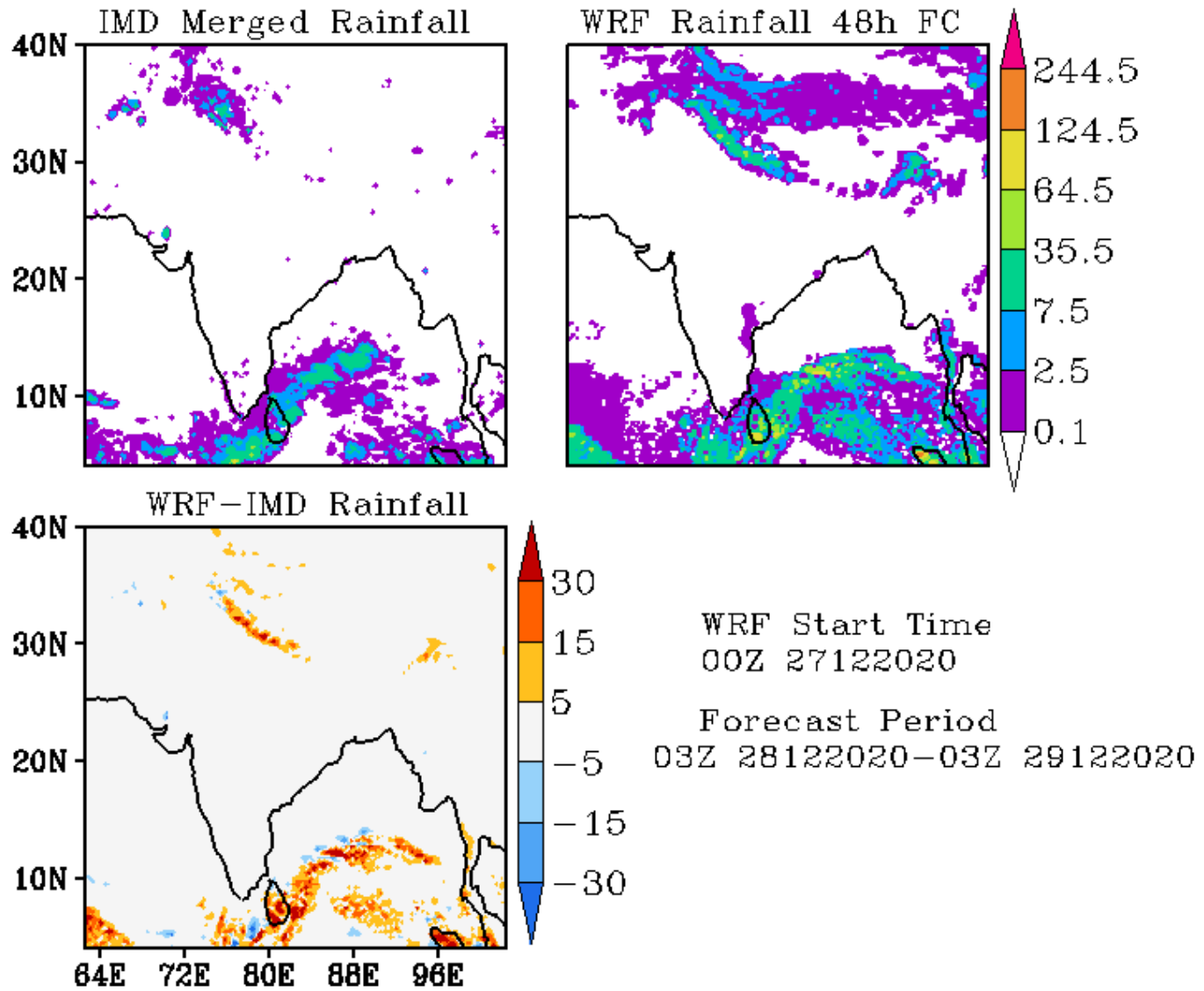


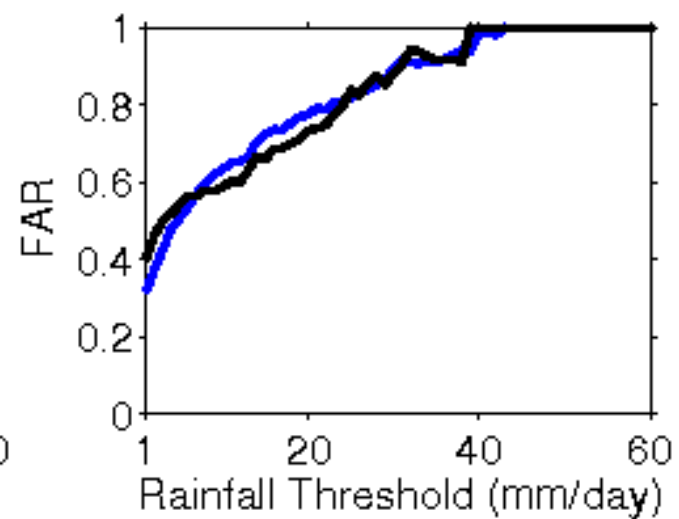
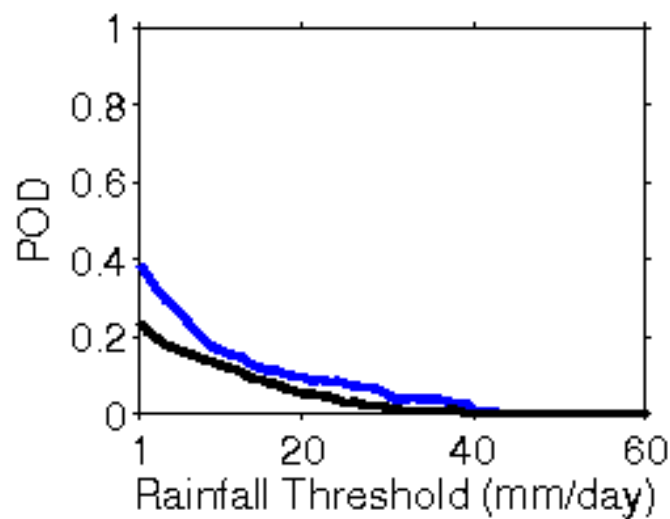
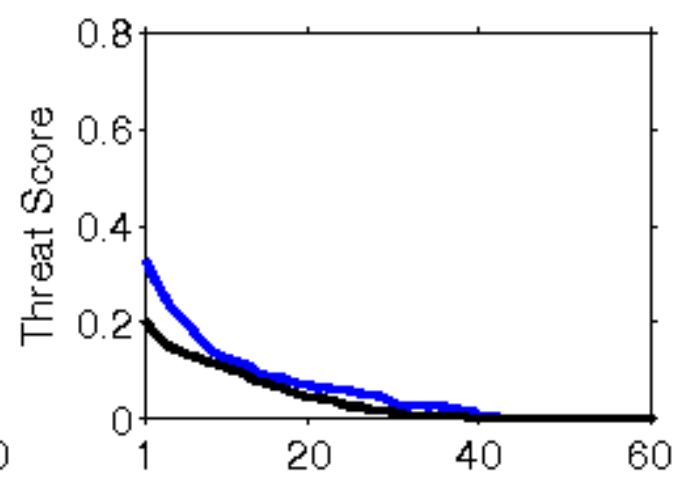
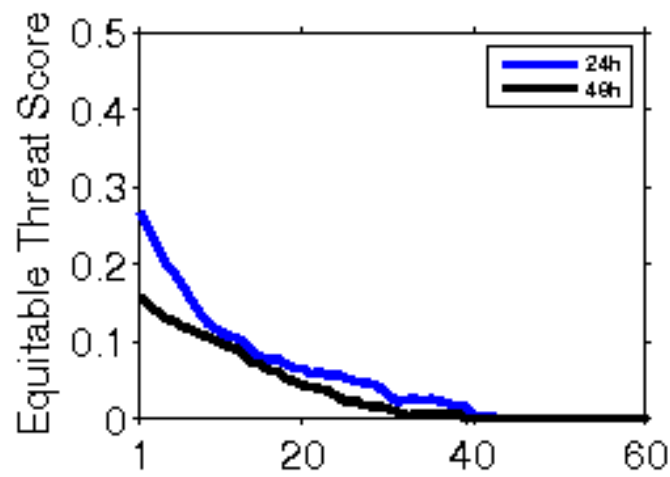


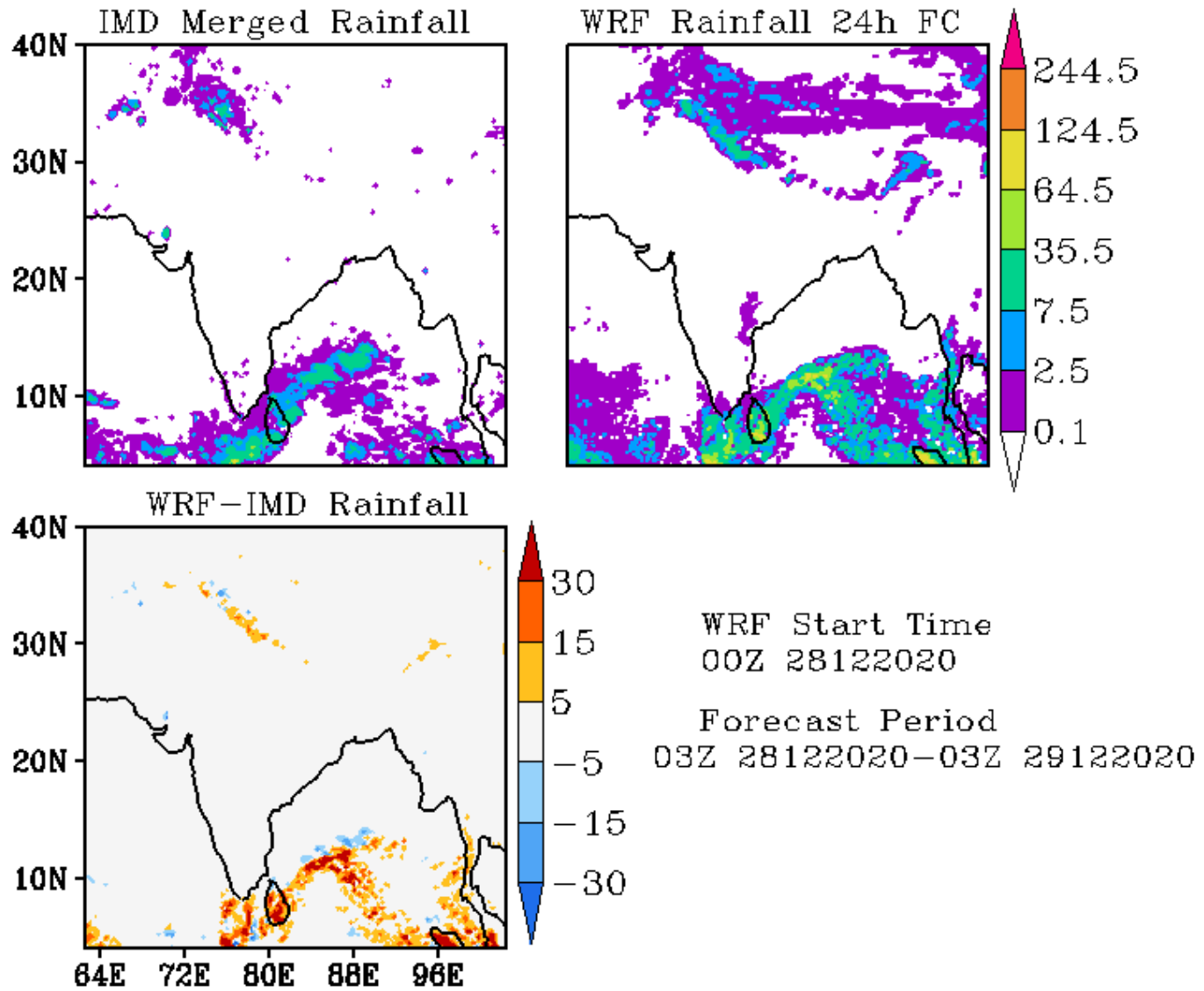


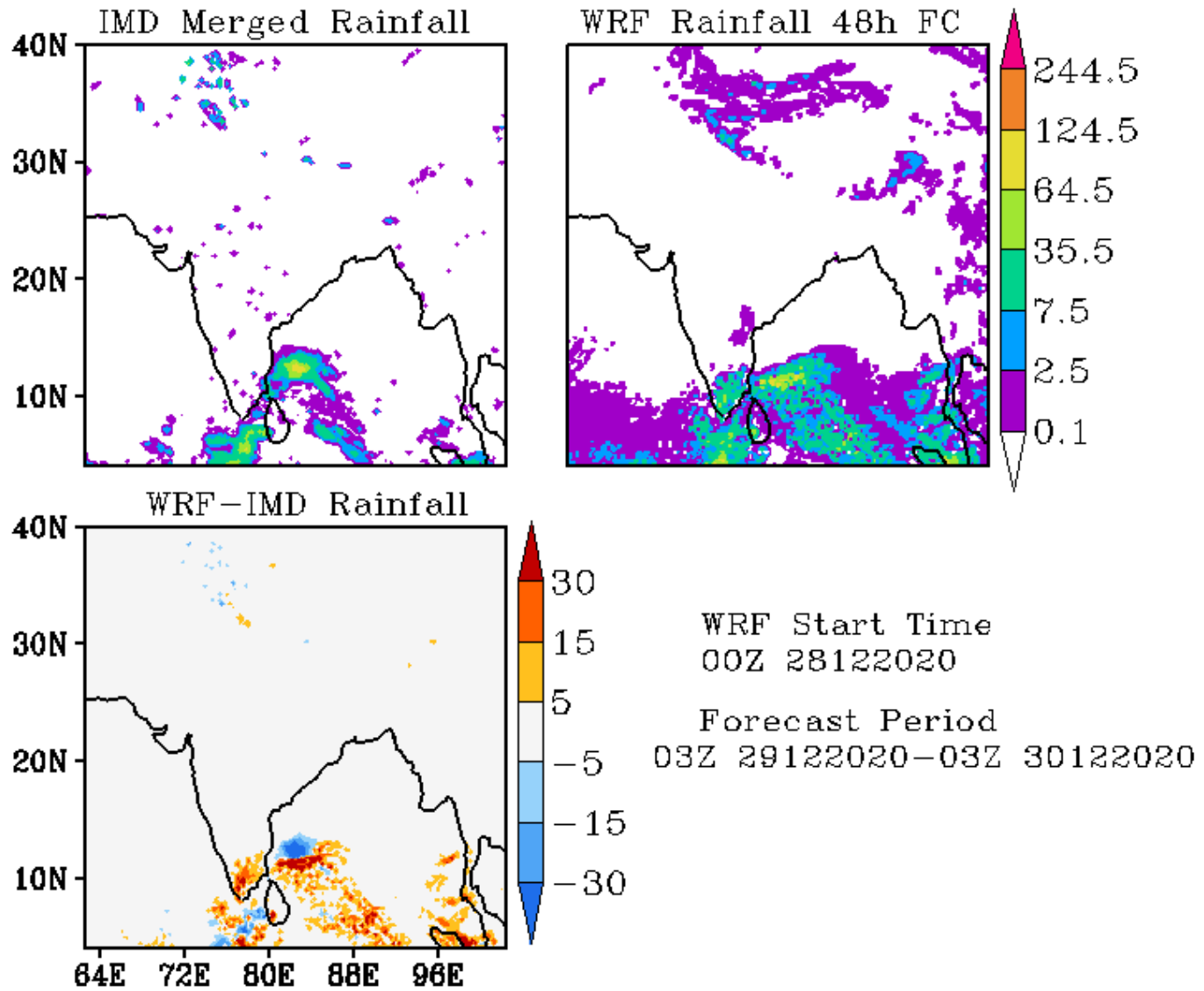


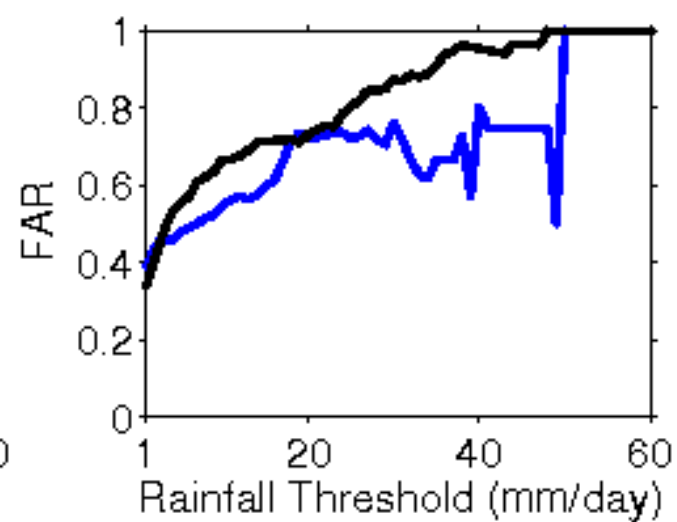
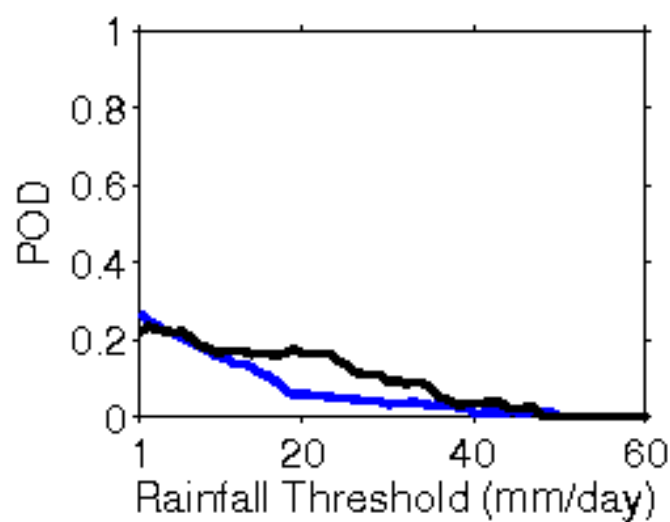
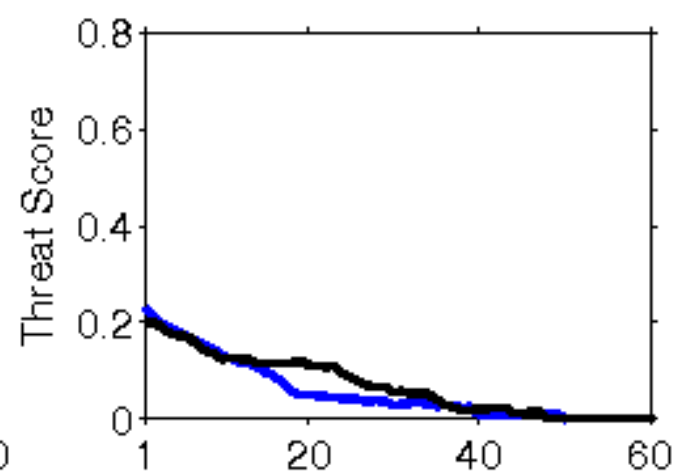
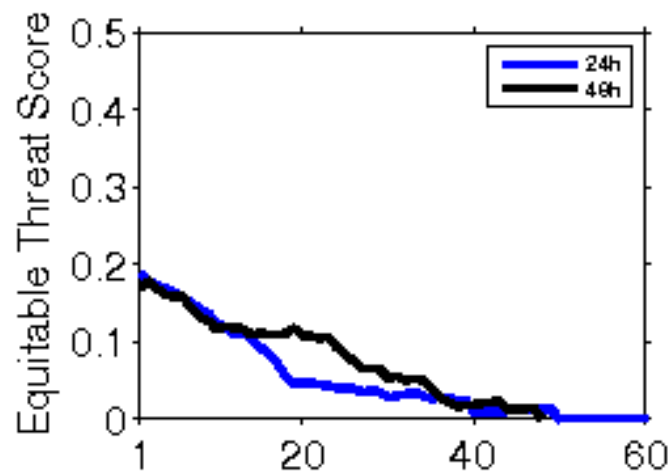


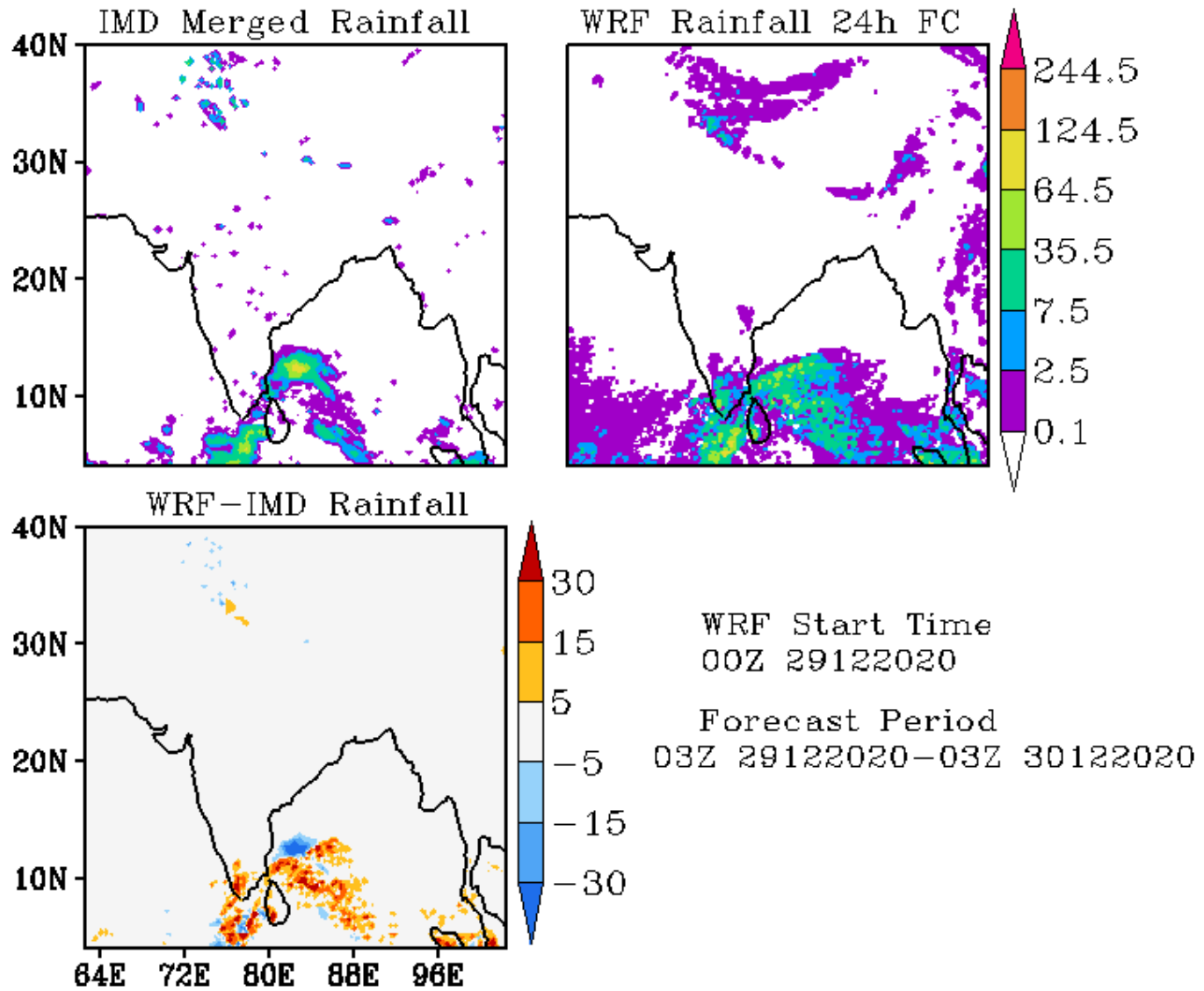


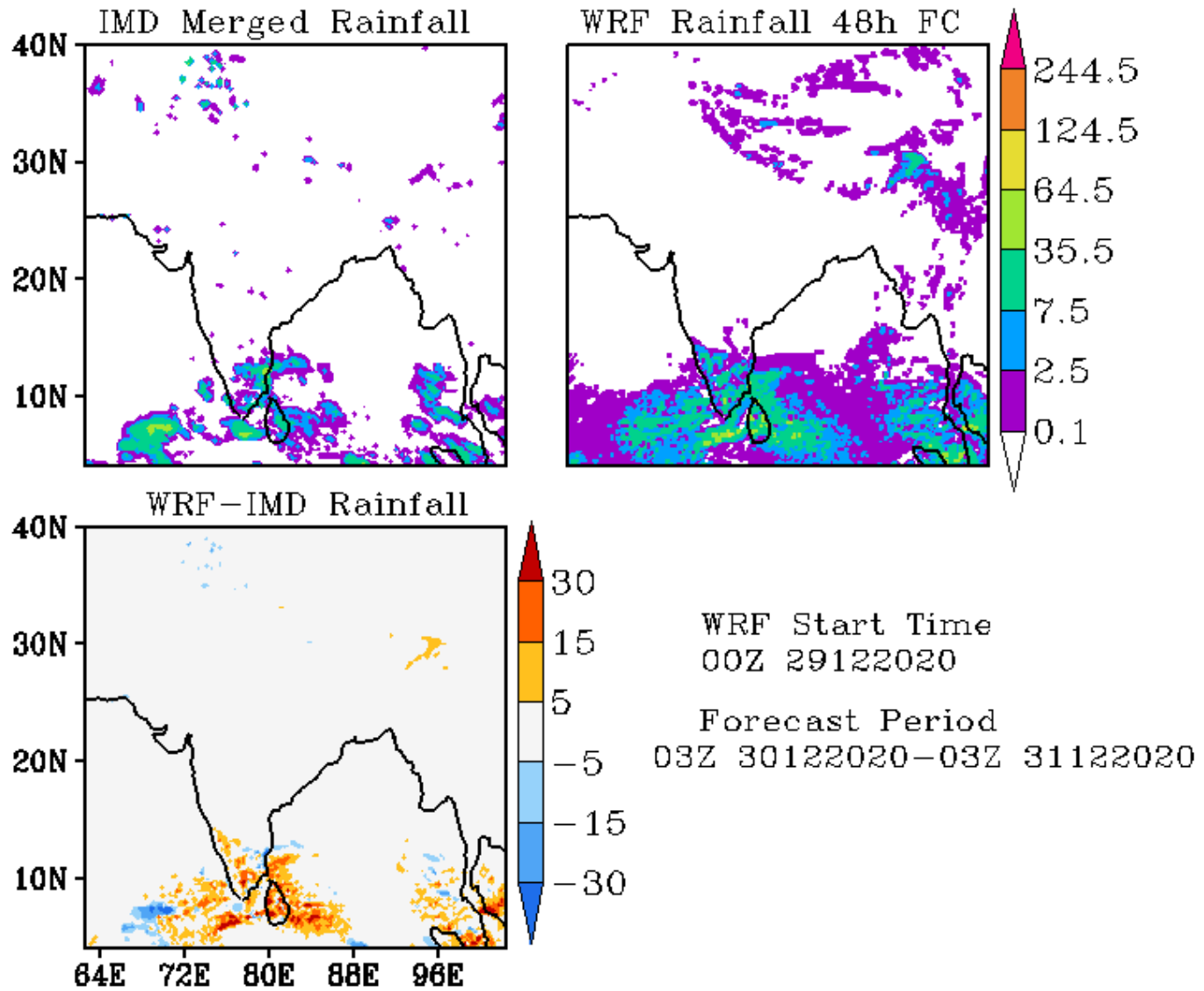


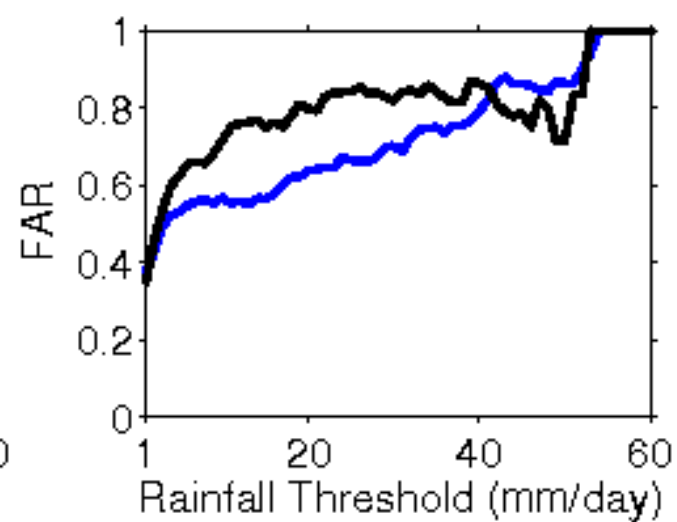
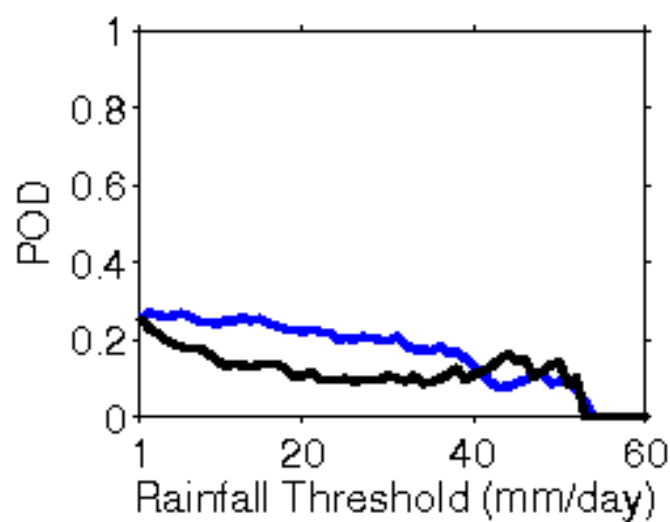
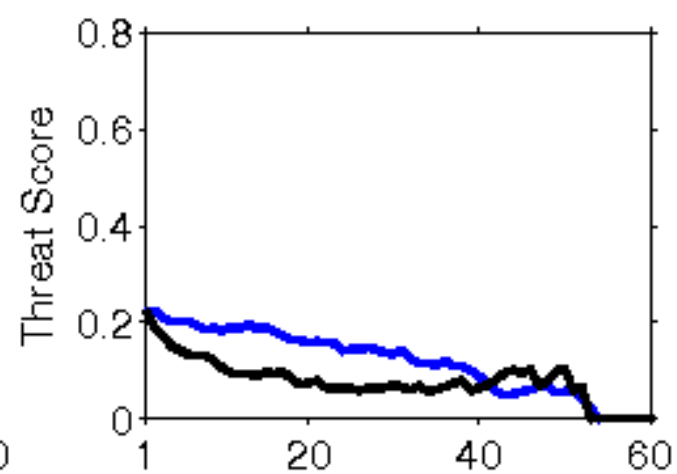
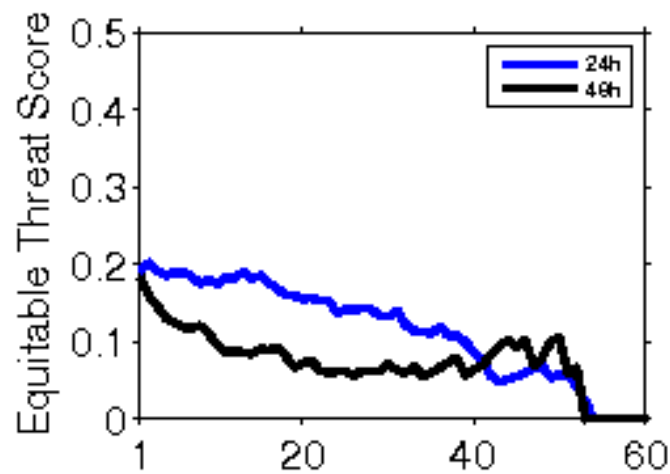


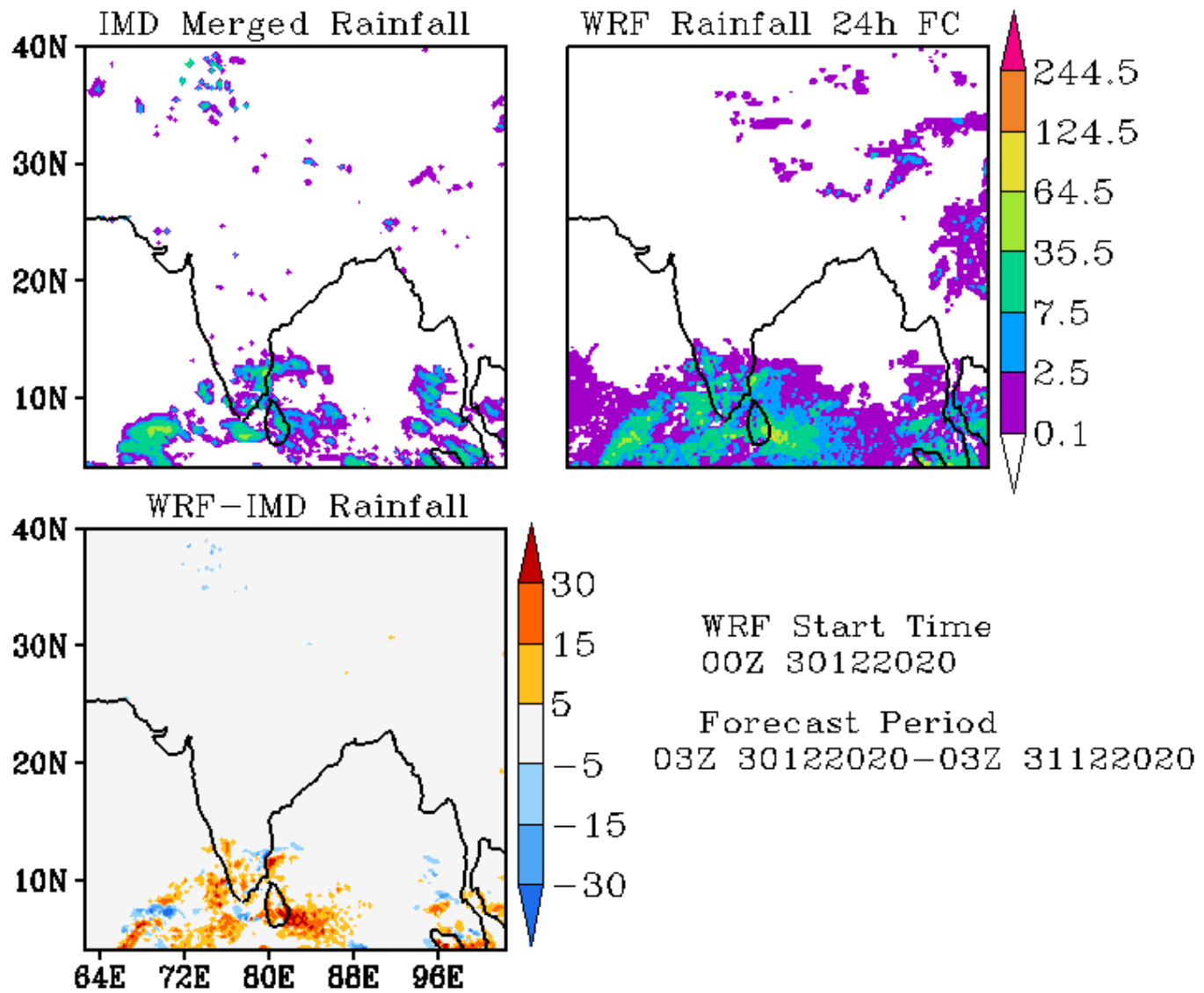






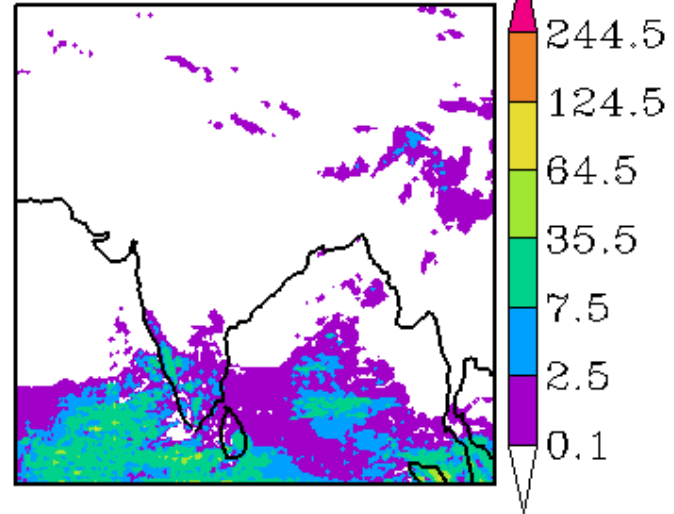




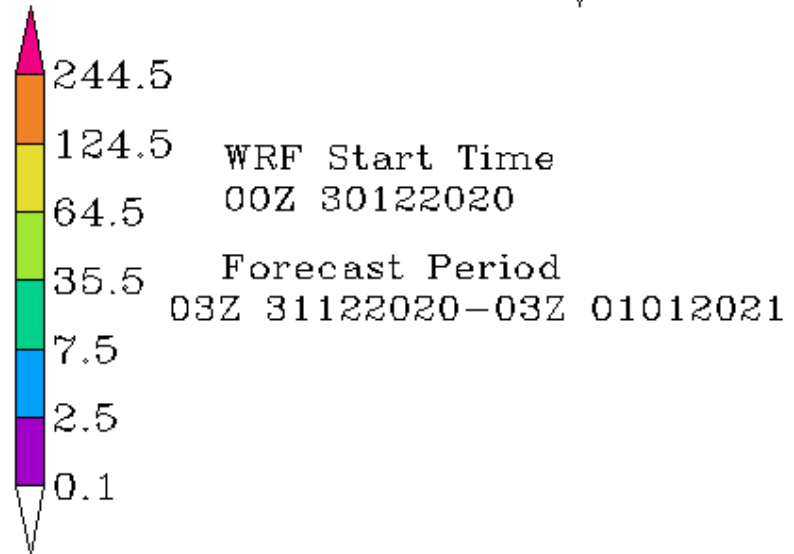


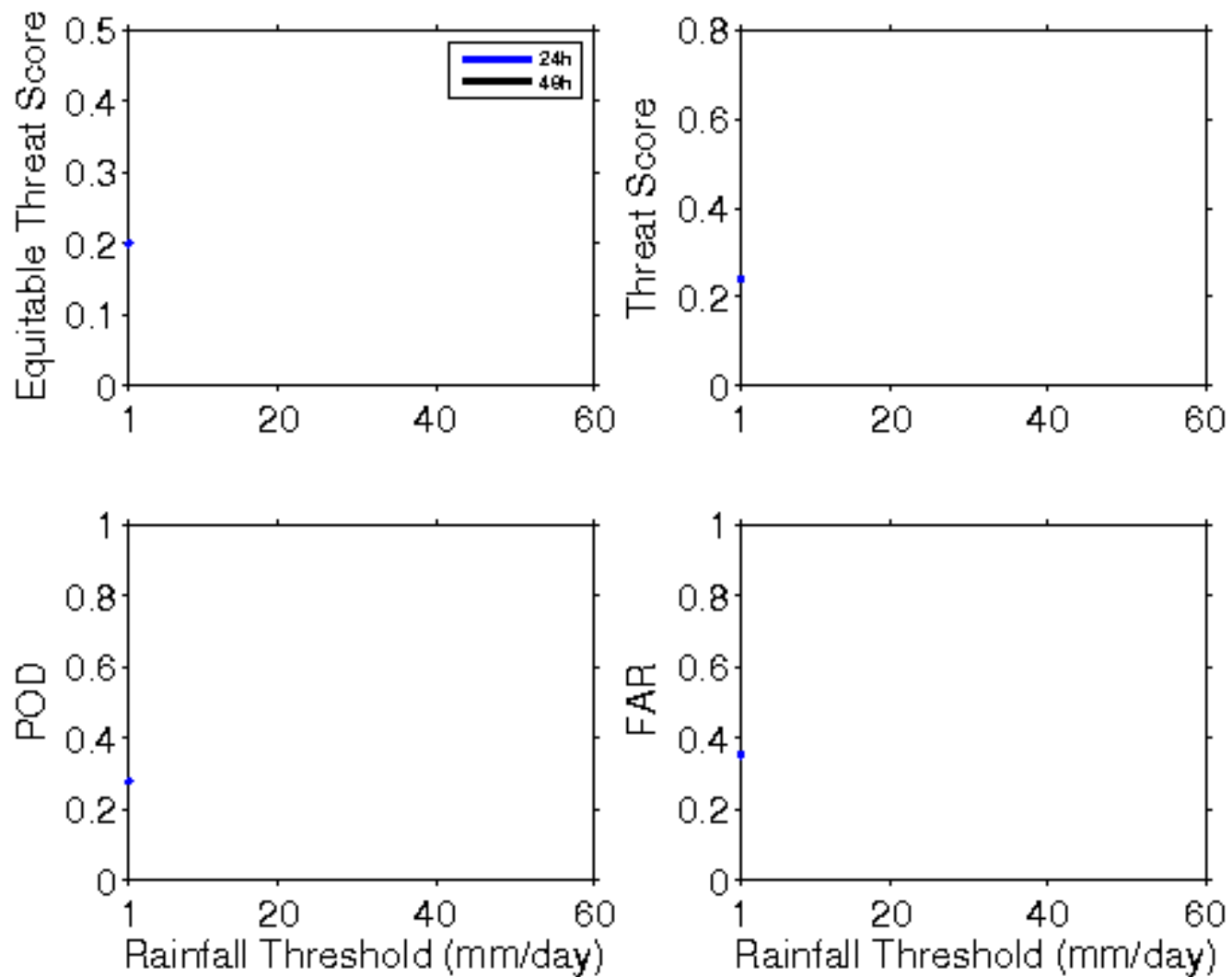
IMD Merged Rainfall

WRF Rainfall 48h FC



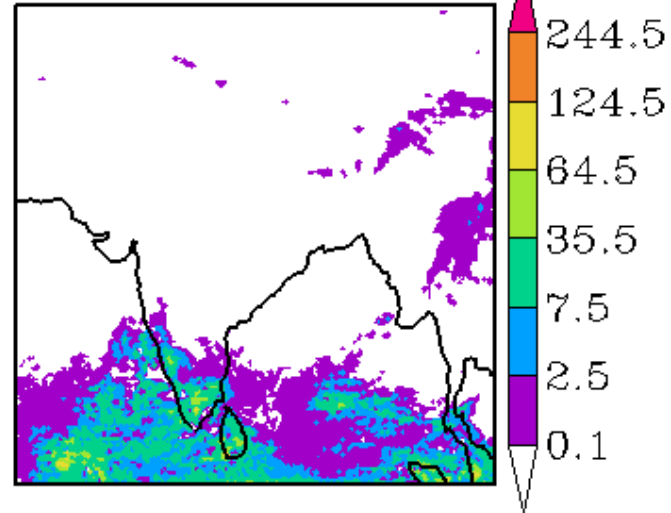
WRF-IMD Rainfall



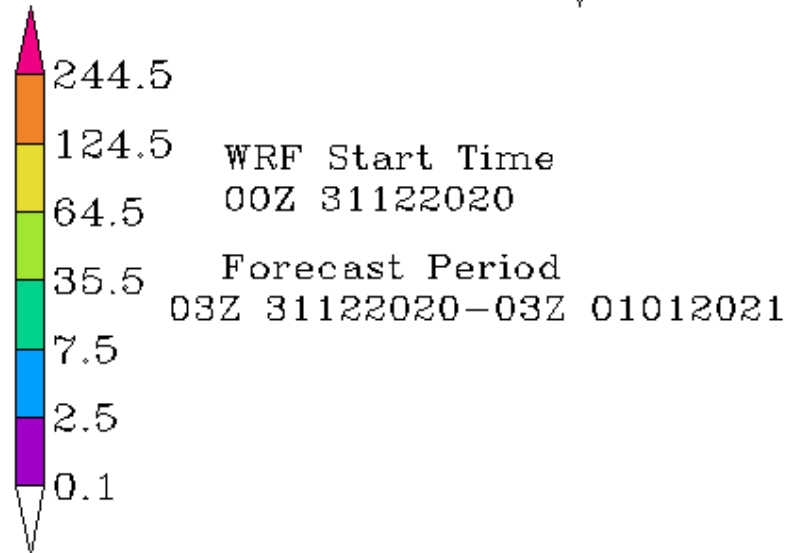


IMD Merged Rainfall

WRF Rainfall 24h FC

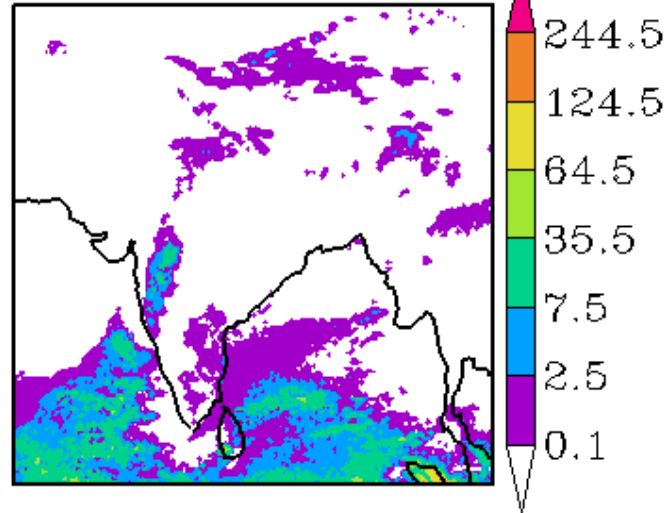


WRF-IMD Rainfall



IMD Merged Rainfall

WRF Rainfall 48h FC



WRF-IMD Rainfall

