Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 01-07-20
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	1.50(-0.19)	11.56(2.32)	2.48(1.33)
48 Hour	2.14(0.20)	14.43(1.43)	3.53(2.00)
72 Hour	2.17(0.53)	17.02(1.07)	4.61(2.41)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 02-07-20
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	1.54(-0.23)	11.79(2.19)	2.52(1.48)
48 Hour	2.03(0.28)	15.38(0.89)	3.79(2.27)
72 Hour	1.79(0.35)	15.86(0.53)	4.31(2.71)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 03-07-20
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	1.51(-0.10)	10.26(0.53)	2.88(1.64)
48 Hour	1.59(0.19)	12.73(-0.72)	3.46(2.18)
72 Hour	1.87(0.30)	12.48(-1.10)	3.95(2.58)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 04-07-20
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	1.55(0.01)	9.86(1.43)	2.79(1.61)
48 Hour	1.81(0.17)	11.20(-0.06)	3.49(2.07)
72 Hour	1.80(0.32)	11.65(-0.92)	3.43(2.47)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 05-07-20
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	1.60(0.11)	9.92(0.75)	2.64(1.28)
48 Hour	1.76(0.41)	11.48(0.18)	2.71(1.92)
72 Hour	2.03(0.12)	11.58(-0.51)	2.54(2.22)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 06-07-20
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	1.55(-0.11)	10.71(1.56)	2.50(1.38)
48 Hour	1.76(0.12)	11.40(0.54)	2.35(1.68)
72 Hour	2.31(0.32)	13.28(1.41)	2.72(2.17)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 07-07-20
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	1.56(-0.15)	10.35(2.38)	2.31(1.31)
48 Hour	1.95(0.25)	12.25(1.88)	2.62(1.52)
72 Hour	2.38(0.52)	15.16(2.10)	3.67(1.49)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 08-07-20
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	1.48(-0.04)	8.91(1.68)	2.22(1.18)
48 Hour	2.00(0.37)	11.76(-0.30)	3.21(1.82)
72 Hour	2.46(0.56)	15.62(-0.21)	4.84(2.18)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 09-07-20
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	1.46(-0.04)	9.94(1.32)	2.44(1.47)
48 Hour	1.87(0.31)	13.37(0.69)	4.05(2.05)
72 Hour	2.06(0.56)	13.94(-1.24)	4.37(2.83)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 10-07-20
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	1.55(−0.20)	10.65(0.46)	2.58(1.55)
48 Hour	1.89(0.25)	12.26(−0.82)	3.22(2.36)
72 Hour	1.92(0.43)	13.05(−1.59)	3.29(3.17)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 11-07-20
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	1.60(0.03)	10.72(0.35)	2.74(1.77)
48 Hour	2.15(0.06)	12.89(0.21)	3.12(2.30)
72 Hour	2.17(0.33)	13.72(-0.22)	3.13(2.89)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 16-07-20
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	1.53(-0.04)	10.30(1.68)	2.46(1.38)
48 Hour	1.81(0.27)	12.04(0.50)	2.74(1.89)
72 Hour	2.06(0.21)	13.54(1.91)	3.01(1.93)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 17-07-20
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	1.47(-0.06)	9.80(1.46)	2.34(1.35)
48 Hour	1.89(0.15)	10.95(0.64)	2.72(1.95)
72 Hour	2.10(0.32)	14.26(0.09)	3.48(2.13)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 18-07-20
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	1.45(-0.09)	9.02(1.03)	2.35(1.25)
48 Hour	1.94(0.24)	12.98(-0.10)	3.26(1.77)
72 Hour	2.30(0.27)	14.27(-0.65)	4.18(2.42)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 19-07-20
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	1.65(-0.10)	10.53(1.09)	2.56(1.53)
48 Hour	1.98(0.04)	13.65(0.43)	3.74(1.98)
72 Hour	2.14(0.07)	12.87(0.76)	3.83(2.24)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 20-07-20
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	1.57(0.08)	10.44(0.81)	2.94(1.79)
48 Hour	1.64(0.22)	10.66(0.10)	3.11(2.34)
72 Hour	1.95(0.03)	10.12(0.67)	3.02(2.42)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 21-07-20
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	1.37(-0.18)	9.39(2.29)	2.57(1.42)
48 Hour	1.52(0.02)	9.96(0.78)	2.65(1.89)
72 Hour	1.99(0.12)	12.54(-0.13)	3.00(2.32)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 22-07-20
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	1.50(-0.14)	8.46(2.31)	2.33(1.47)
48 Hour	2.07(0.01)	12.20(2.33)	2.89(1.82)
72 Hour	2.48(0.05)	14.54(1.26)	3.03(2.47)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 23-07-20
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	1.48(0.00)	10.22(2.15)	2.47(1.42)
48 Hour	2.00(0.19)	12.34(1.02)	2.83(1.86)
72 Hour	2.47(0.26)	13.76(1.10)	2.78(2.07)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 24-07-20
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	1.46(-0.18)	9.98(2.03)	2.54(1.62)
48 Hour	1.97(0.14)	13.69(1.93)	2.66(2.07)
72 Hour	2.59(0.23)	17.26(1.35)	3.26(2.13)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 25-07-20
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	1.50(-0.09)	11.13(1.39)	2.40(1.39)
48 Hour	2.10(0.16)	15.03(0.28)	2.77(1.93)
72 Hour	2.65(0.39)	16.69(1.57)	3.71(2.37)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 26-07-20
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	1.50(-0.06)	10.43(2.21)	2.14(1.33)
48 Hour	2.15(0.30)	14.71(1.39)	2.81(1.95)
72 Hour	2.32(0.54)	17.71(-0.23)	4.16(2.77)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 27-07-20
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	1.53(-0.12)	10.80(2.59)	2.12(1.36)
48 Hour	2.08(0.10)	14.79(2.12)	3.44(1.94)
72 Hour	2.06(0.17)	16.08(1.43)	4.52(2.64)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 28-07-20
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	1.61(0.02)	10.76(1.29)	2.50(1.51)
48 Hour	1.77(0.16)	12.91(0.09)	3.61(1.89)
72 Hour	1.76(-0.00)	12.58(0.76)	3.66(2.40)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 29-07-20
Domain [lon 67.8E-98E,lat 7N-38N] Resolution 5 Km

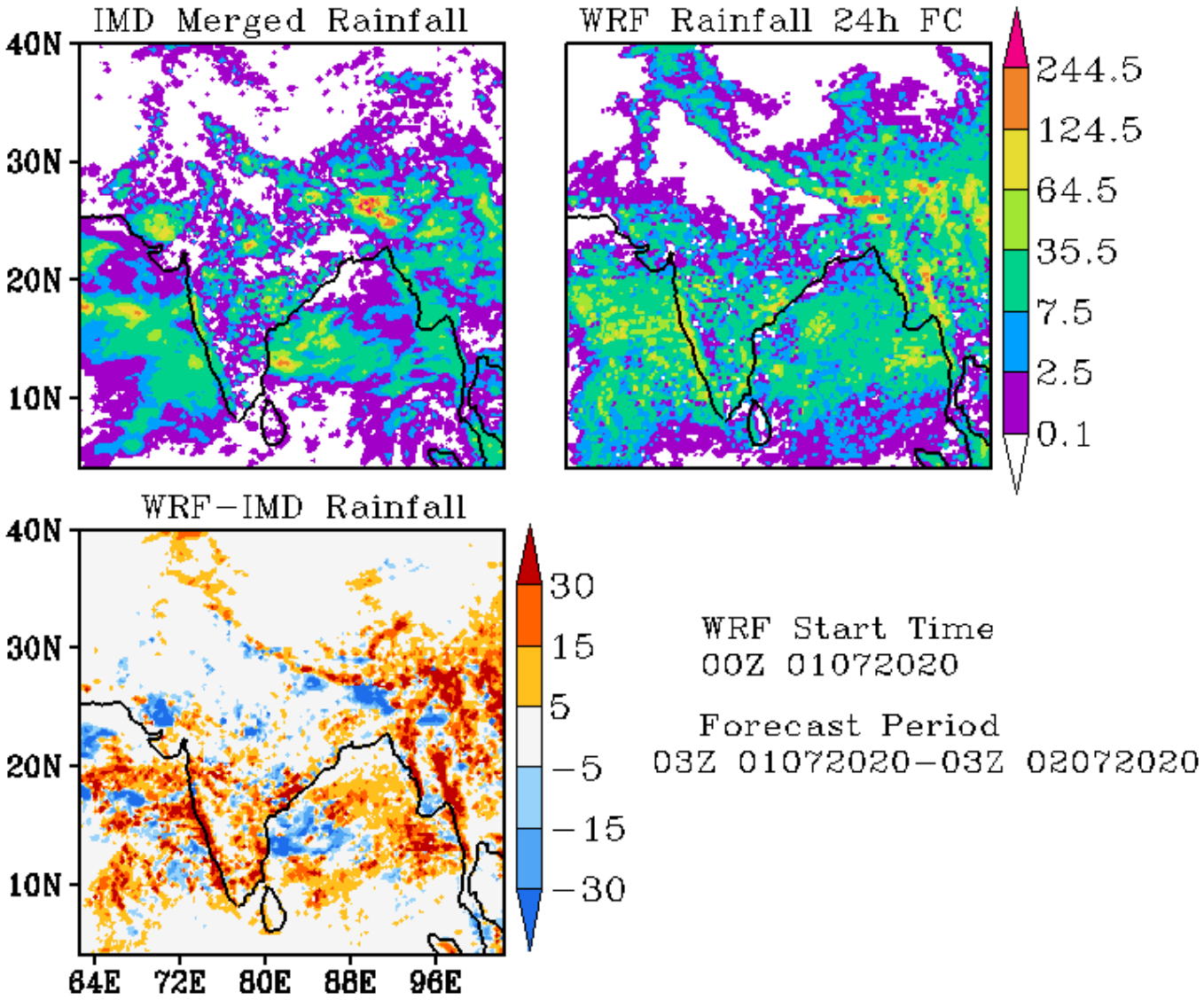
Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.59(-0.11)	9.62(0.98)	2.59(1.43)
48 Hour	1.64(0.05)	11.18(0.05)	2.96(2.11)
72 Hour	1.65(-0.07)	10.52(-0.18)	2.92(2.48)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 30-07-20
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	1.46(0.06)	9.89(1.33)	2.37(1.44)
48 Hour	1.65(0.15)	10.65(1.15)	2.83(1.92)
72 Hour	1.91(0.14)	11.24(0.65)	3.28(2.17)

Error Statistics in Surface Meteorological Parameter
Validation Time 0000 UTC 31-07-20
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	1.57(0.05)	9.82(0.97)	2.45(1.46)
48 Hour	1.95(0.09)	11.62(1.46)	3.09(1.93)
72 Hour	2.18(-0.00)	14.20(0.91)	4.31(2.01)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WRF Rainfall 24h FC
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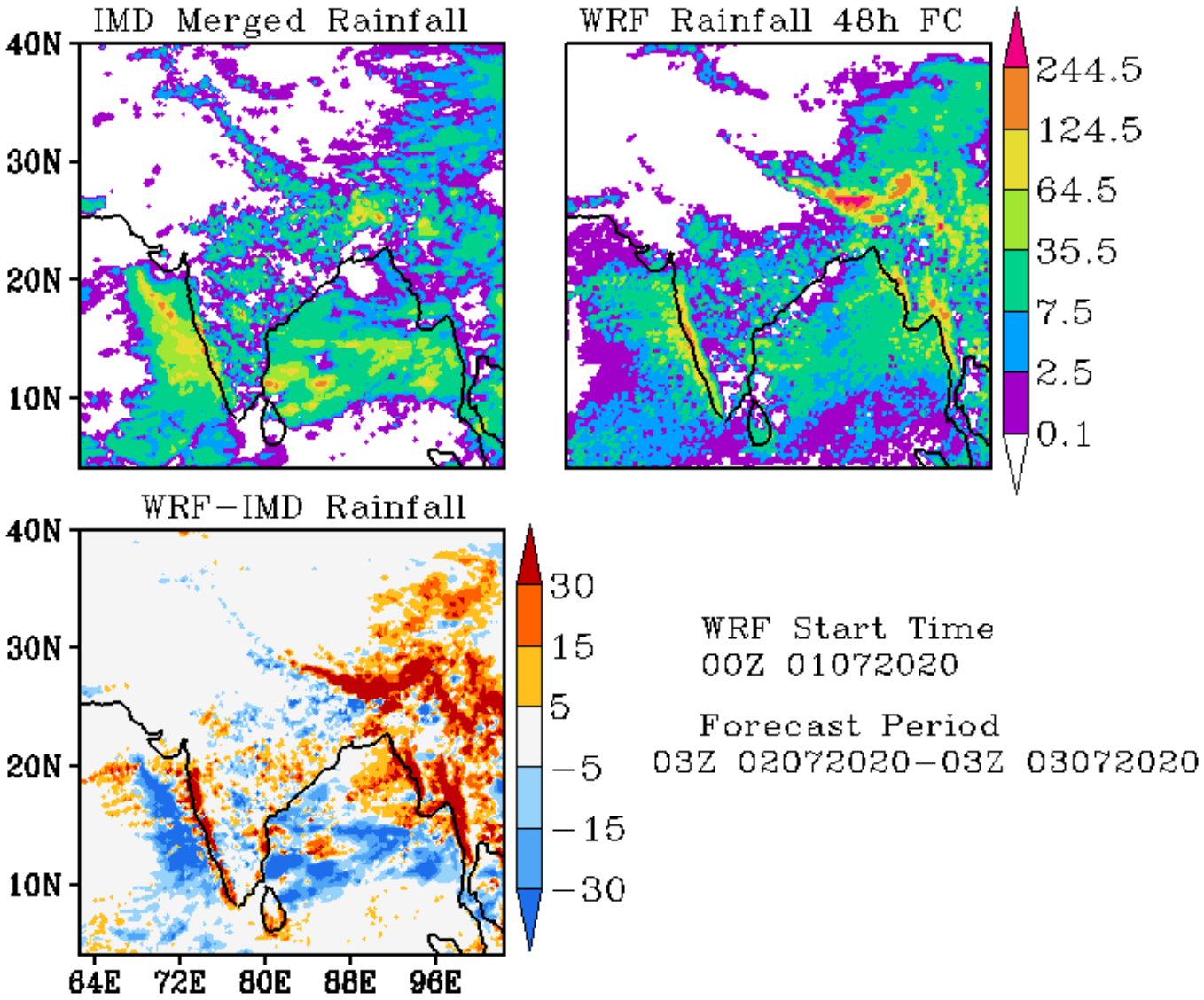
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
30N
20N
10N
64E
72E
80E
88E
96E
WRF Start Time
00Z 01072020
Forecast Period
03Z 01072020−03Z 02072020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WRF Rainfall 48h FC
WRF−IMD Rainfall
40N
30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
2.5
0.1
30
15
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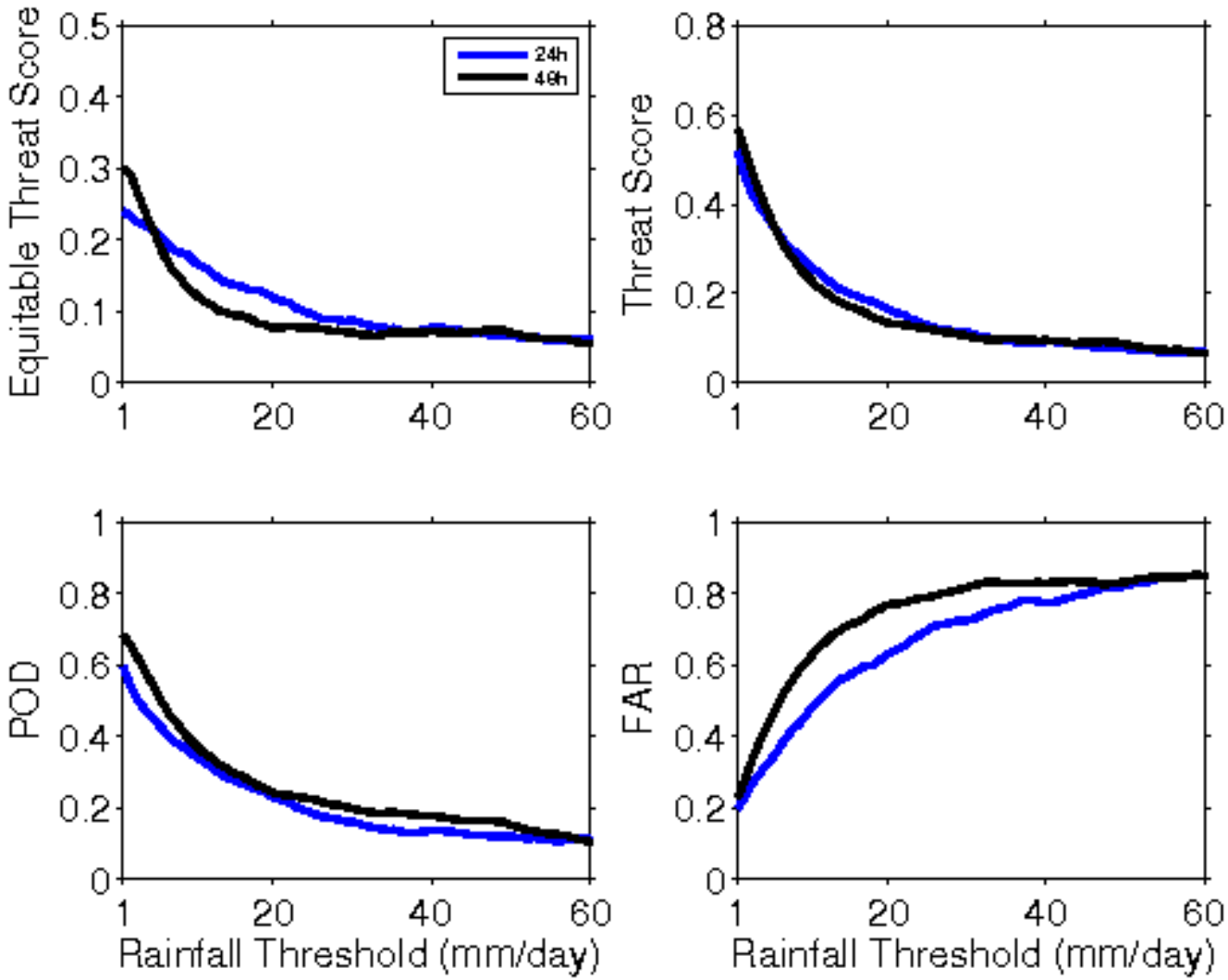
−5
−15
−30
WRF Start Time
00Z 01072020
Forecast Period
03Z 02072020−03Z 03072020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0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
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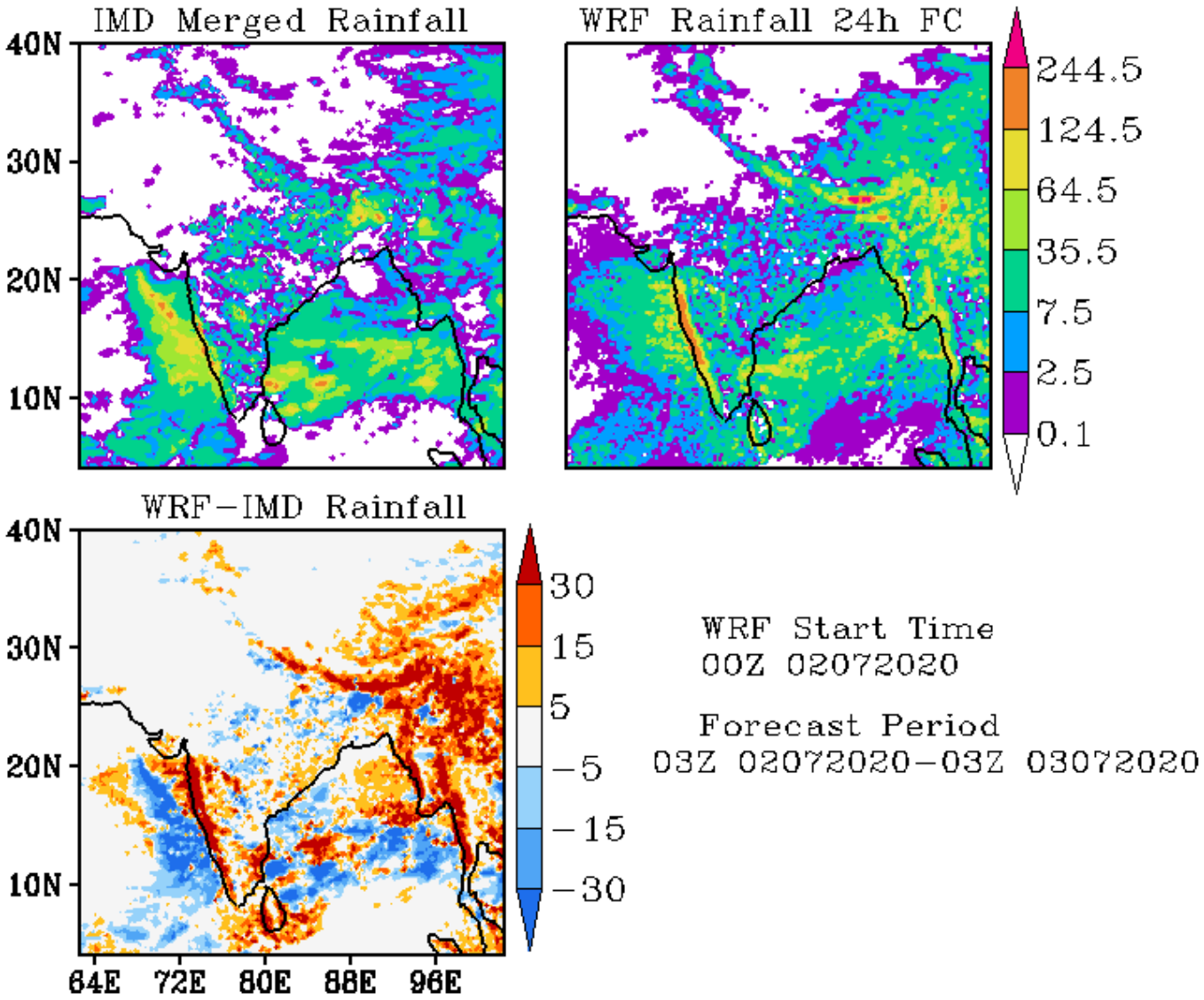
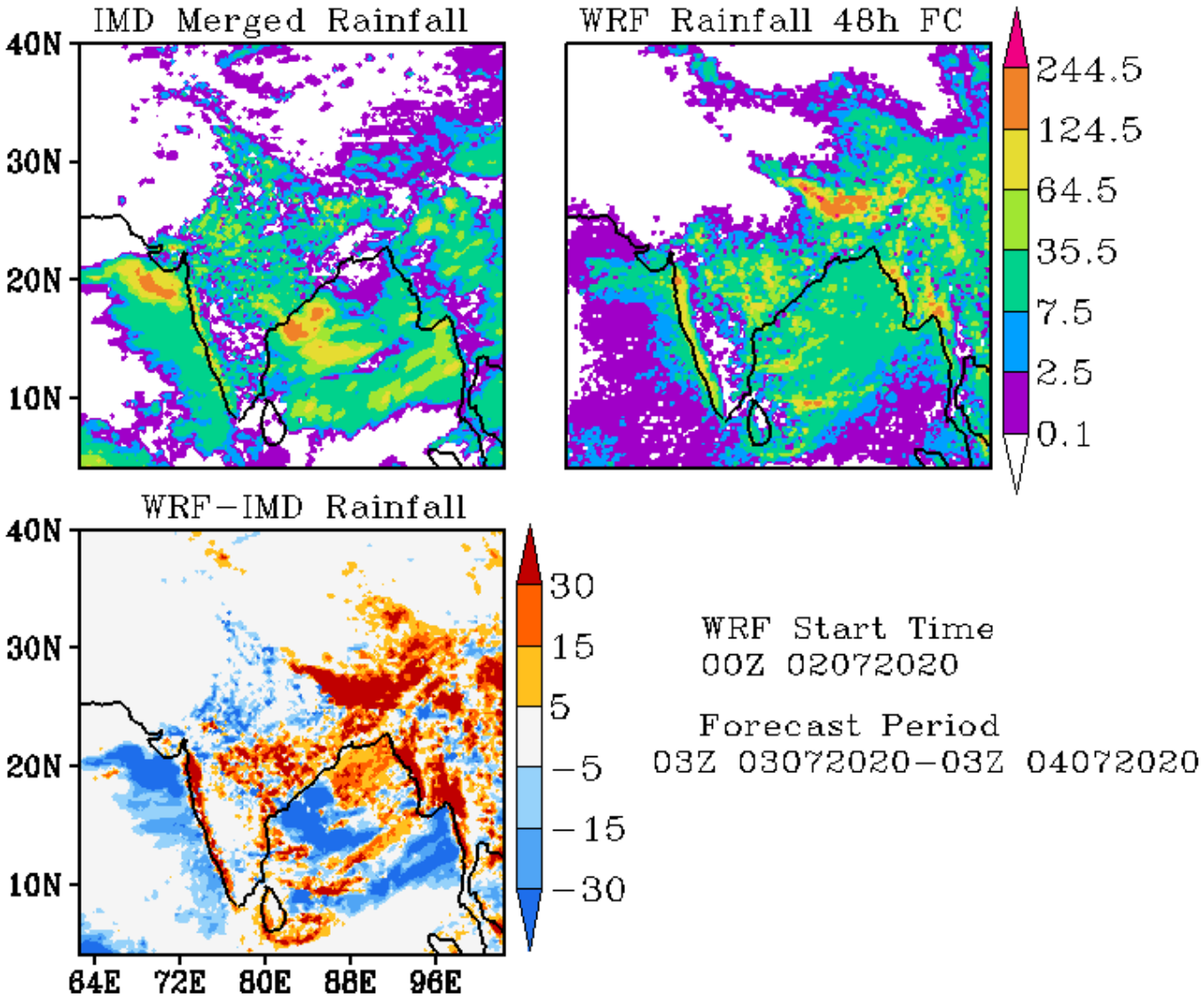
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
30N
20N
10N
64E
72E
80E
88E
96E
WRF Start Time
00Z 02072020
Forecast Period
03Z 02072020−03Z 03072020


IMD Merged Rainfall
WRF Rainfall 48h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
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15
5
−5
−15
−30
40N
30N
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10N
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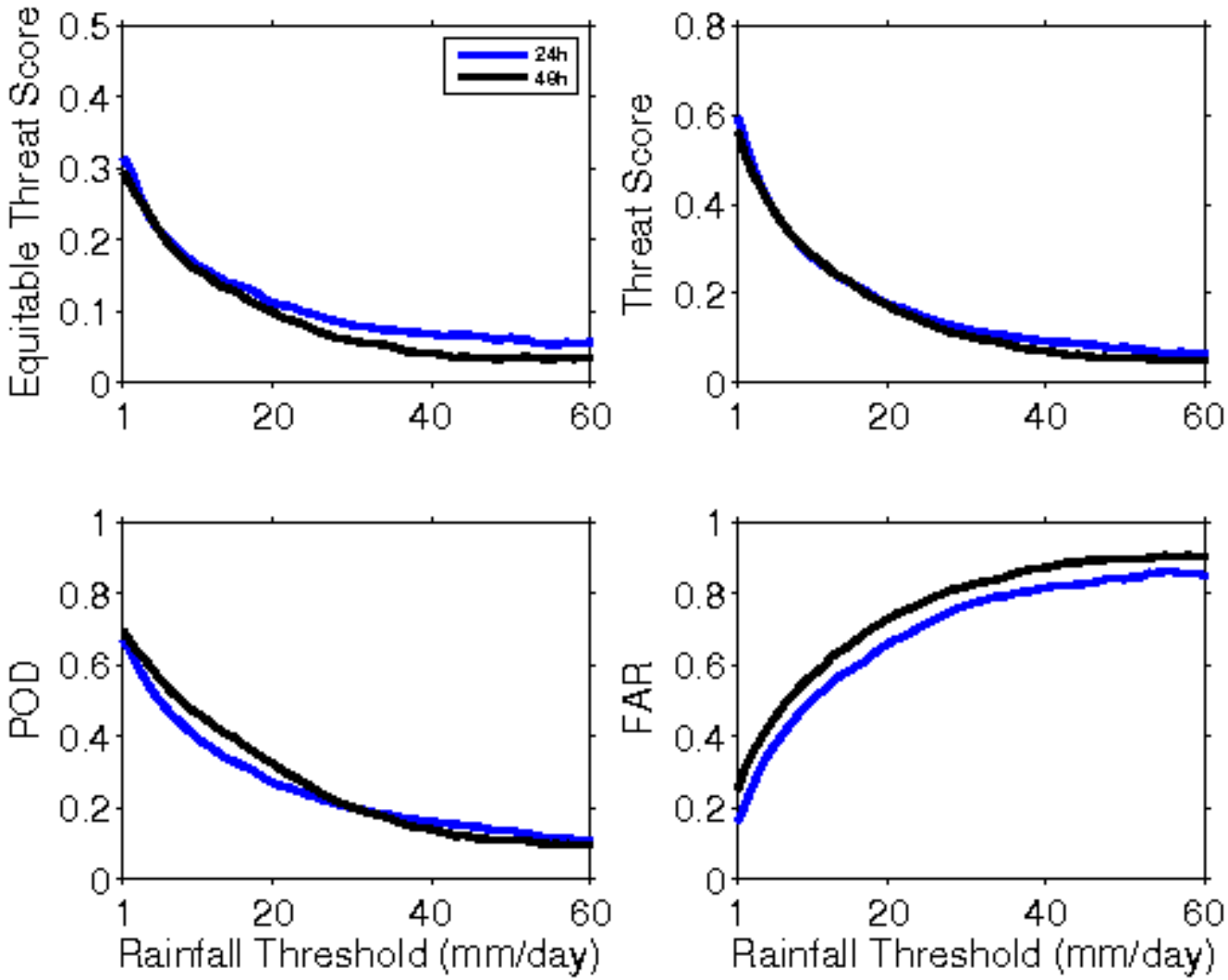
72E
80E
88E
96E
WRF Start Time
00Z 02072020
Forecast Period
03Z 03072020−03Z 04072020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0.2
0.1
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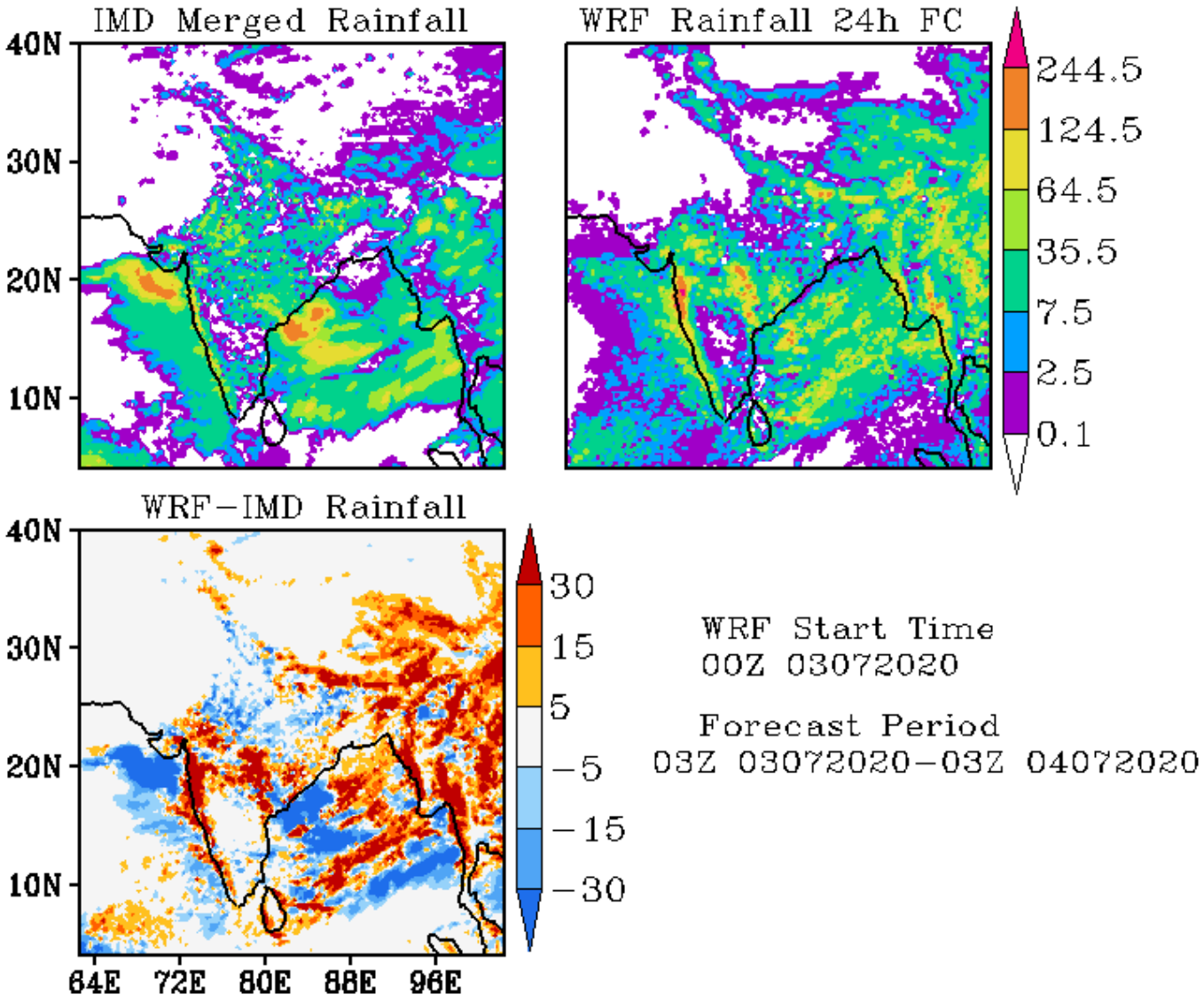
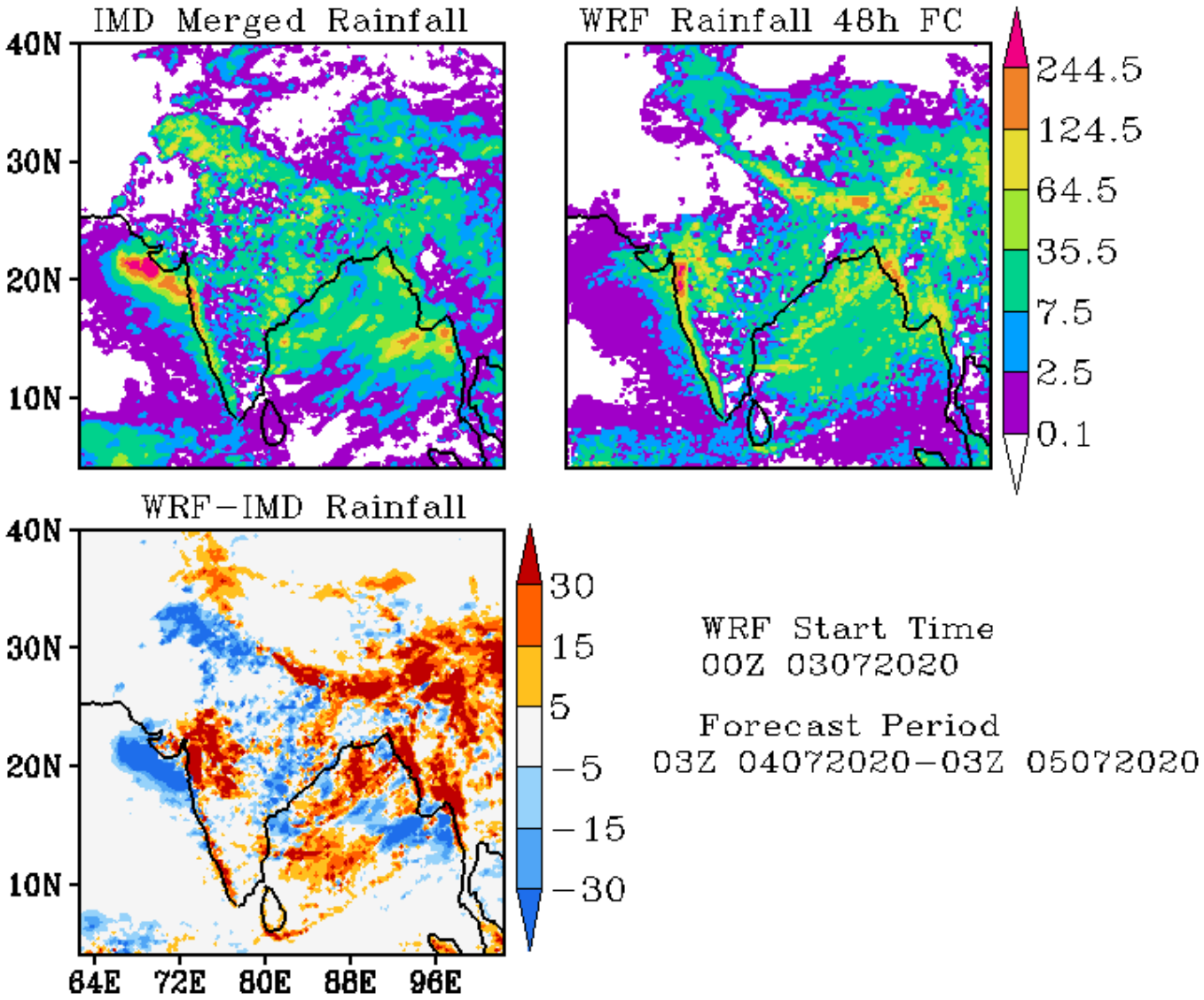
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
30N
20N
10N
64E
72E
80E
88E
96E
WRF Start Time
00Z 03072020
Forecast Period
03Z 03072020−03Z 04072020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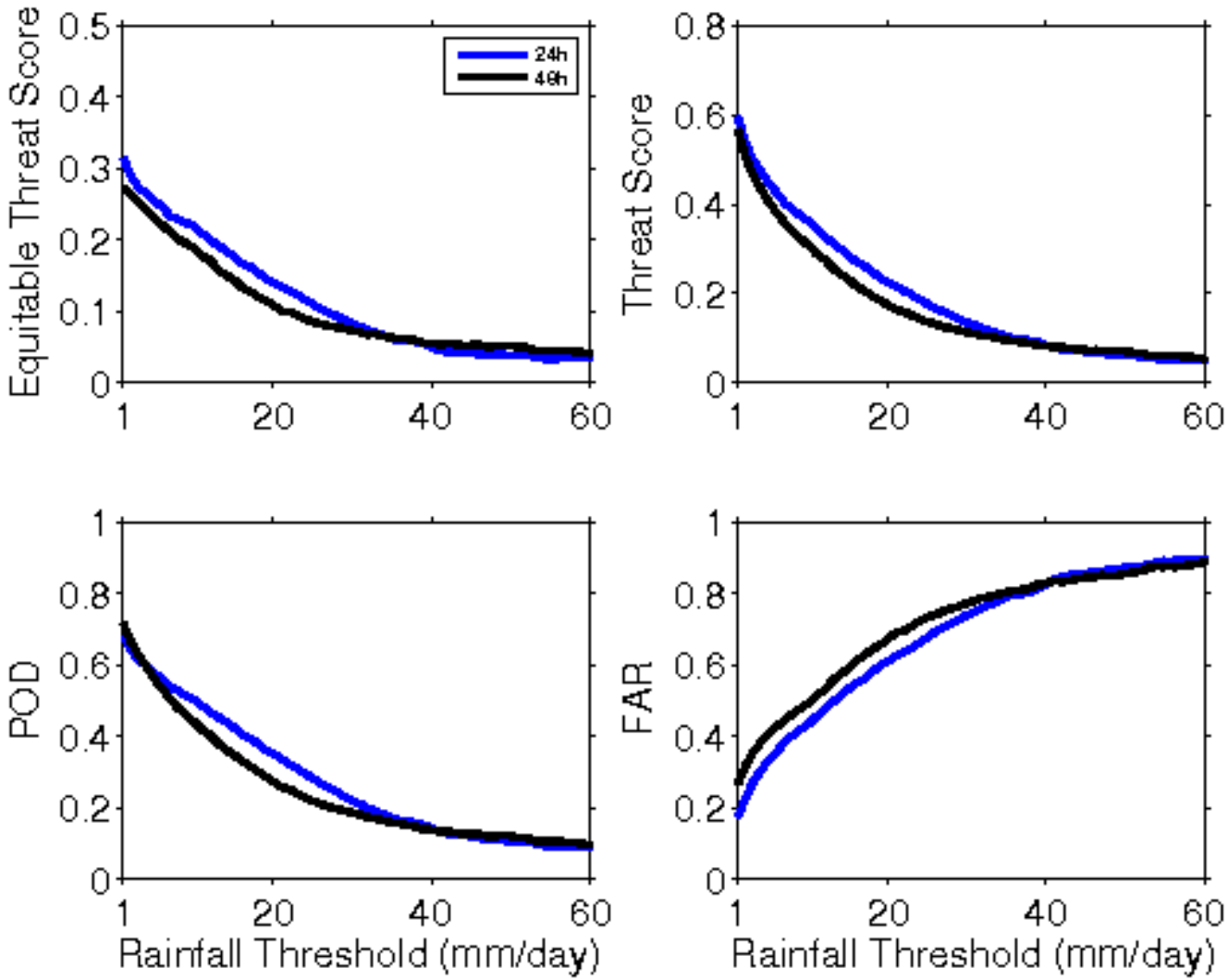
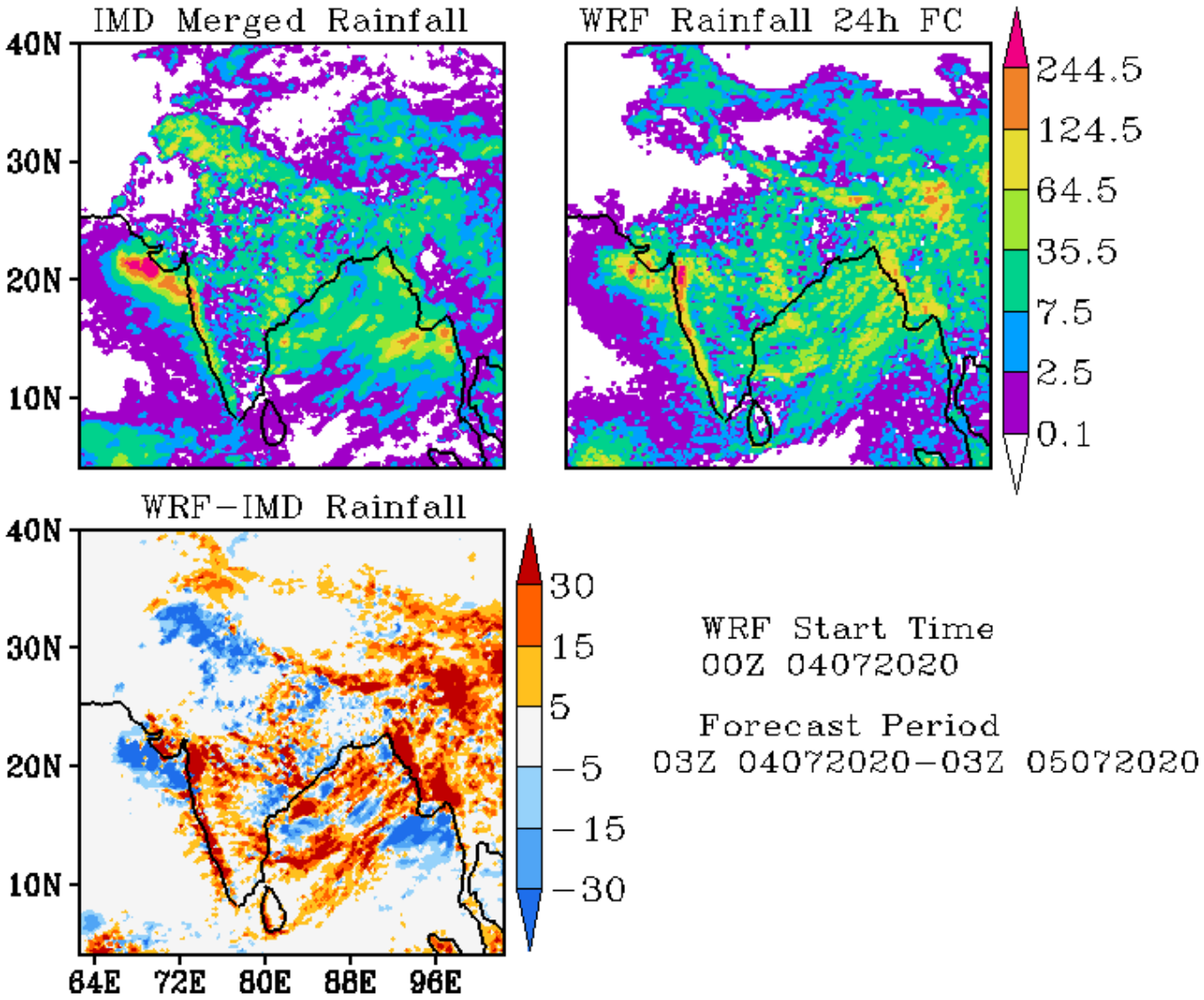
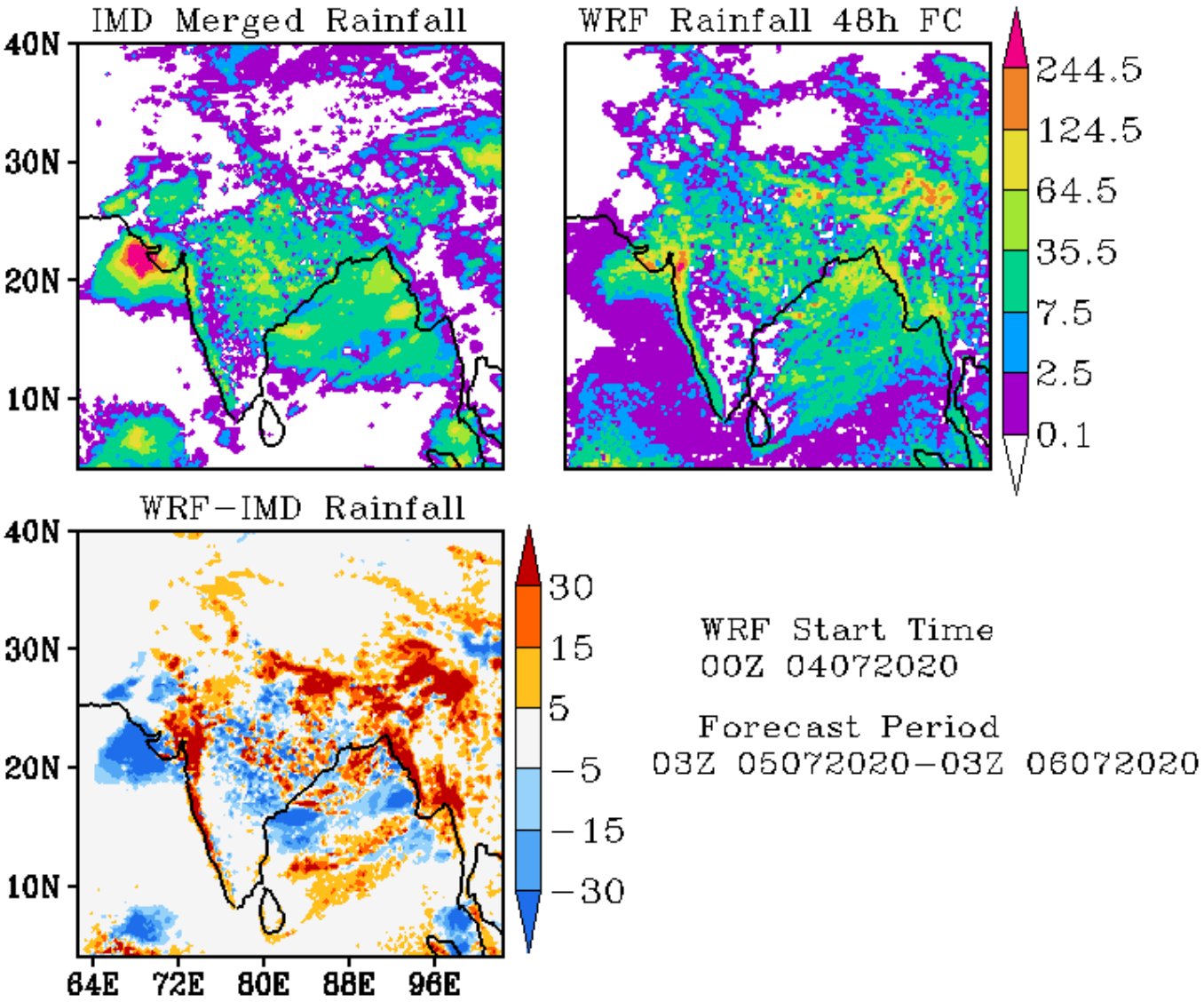
WRF Rainfall 48h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
30N
20N
10N
64E
72E
80E
88E
96E
WRF Start Time
00Z 03072020
Forecast Period
03Z 04072020−03Z 05072020


Equitable Threat Score
0.5
0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
30N
20N
10N
64E
72E
80E
88E
96E
WRF Start Time
00Z 04072020
Forecast Period
03Z 04072020−03Z 05072020


IMD Merged Rainfall
WRF Rainfall 48h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
30N
20N
10N
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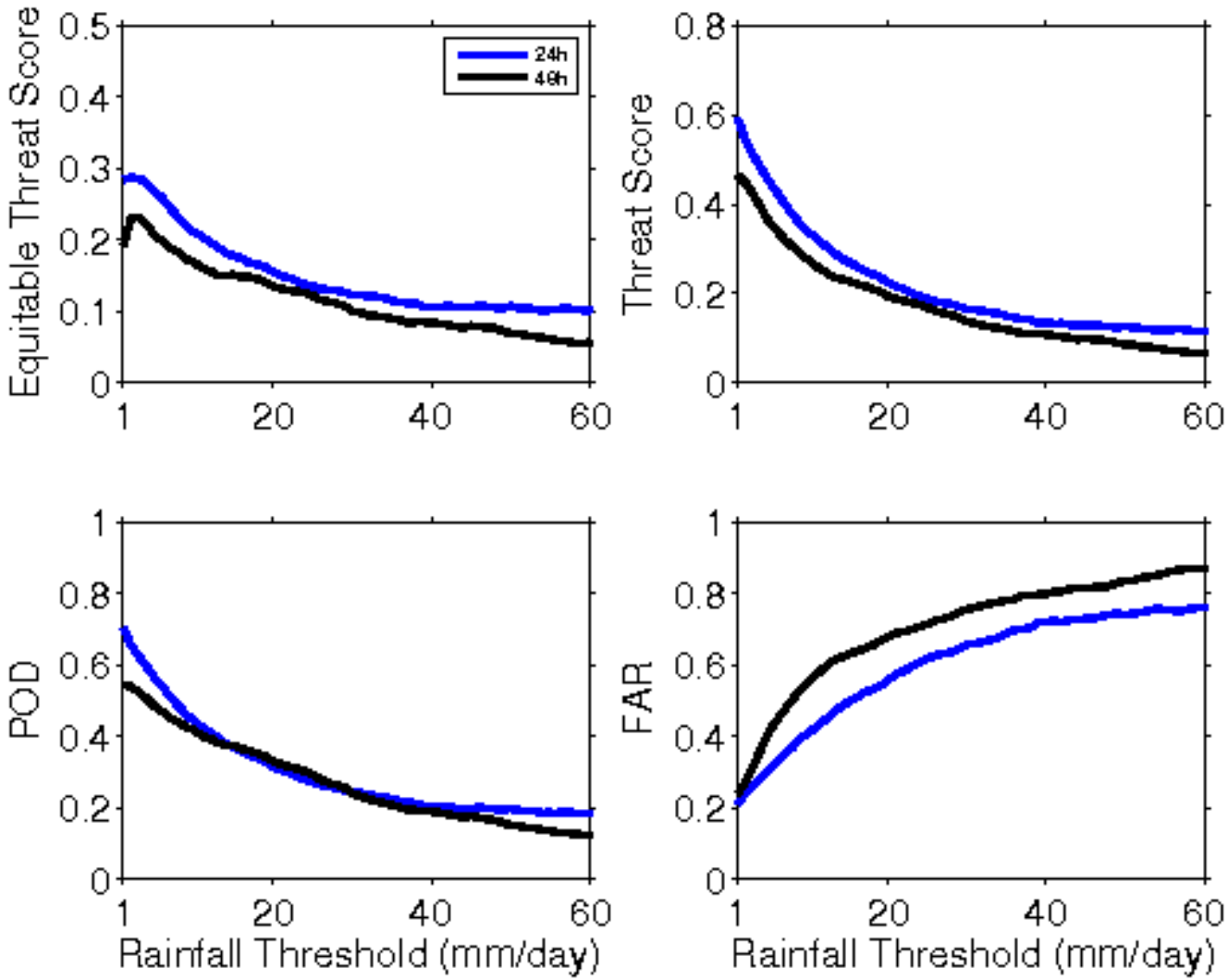
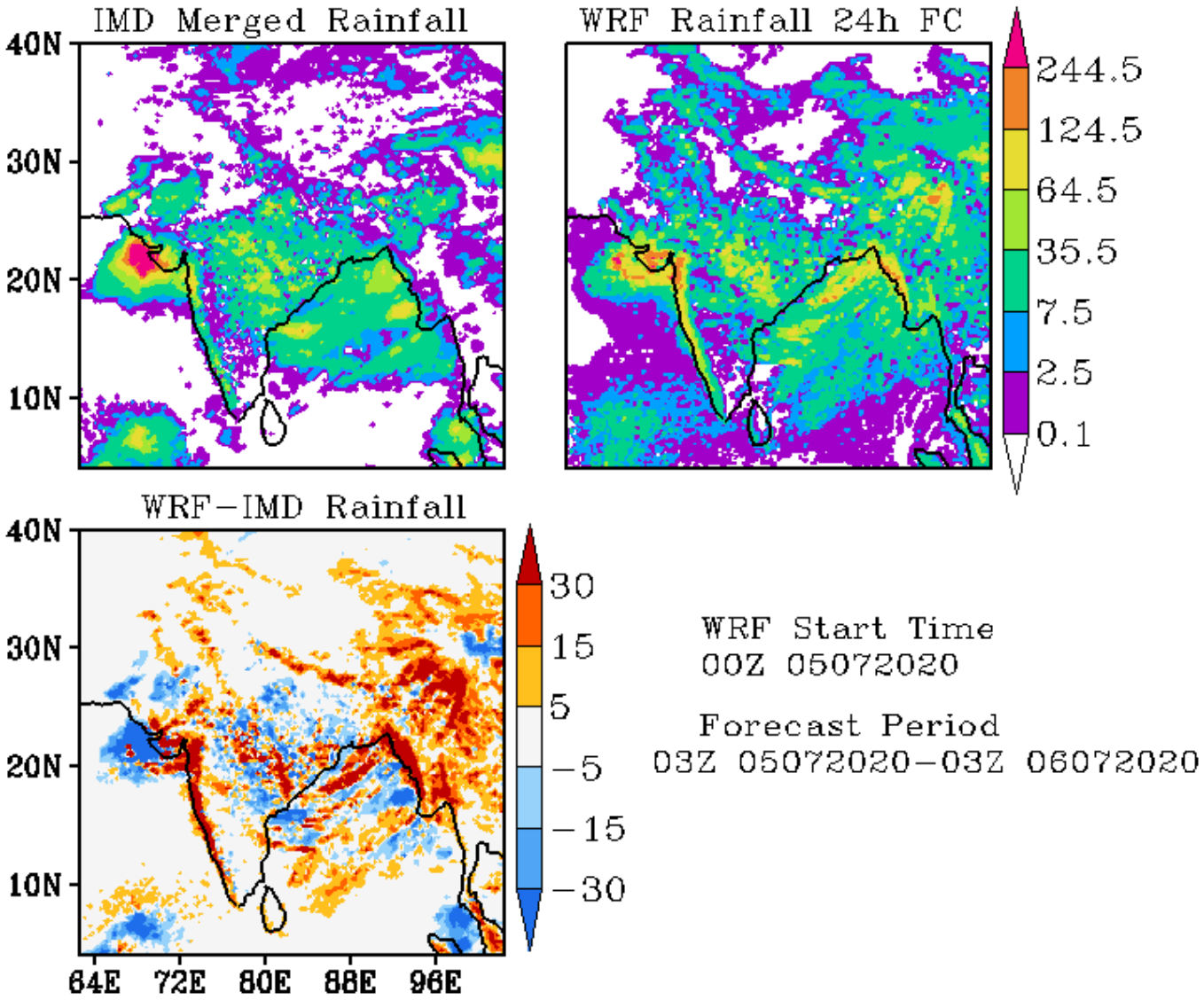
72E
80E
88E
96E
WRF Start Time
00Z 04072020
Forecast Period
03Z 05072020−03Z 06072020


Equitable Threat Score
0.5
0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
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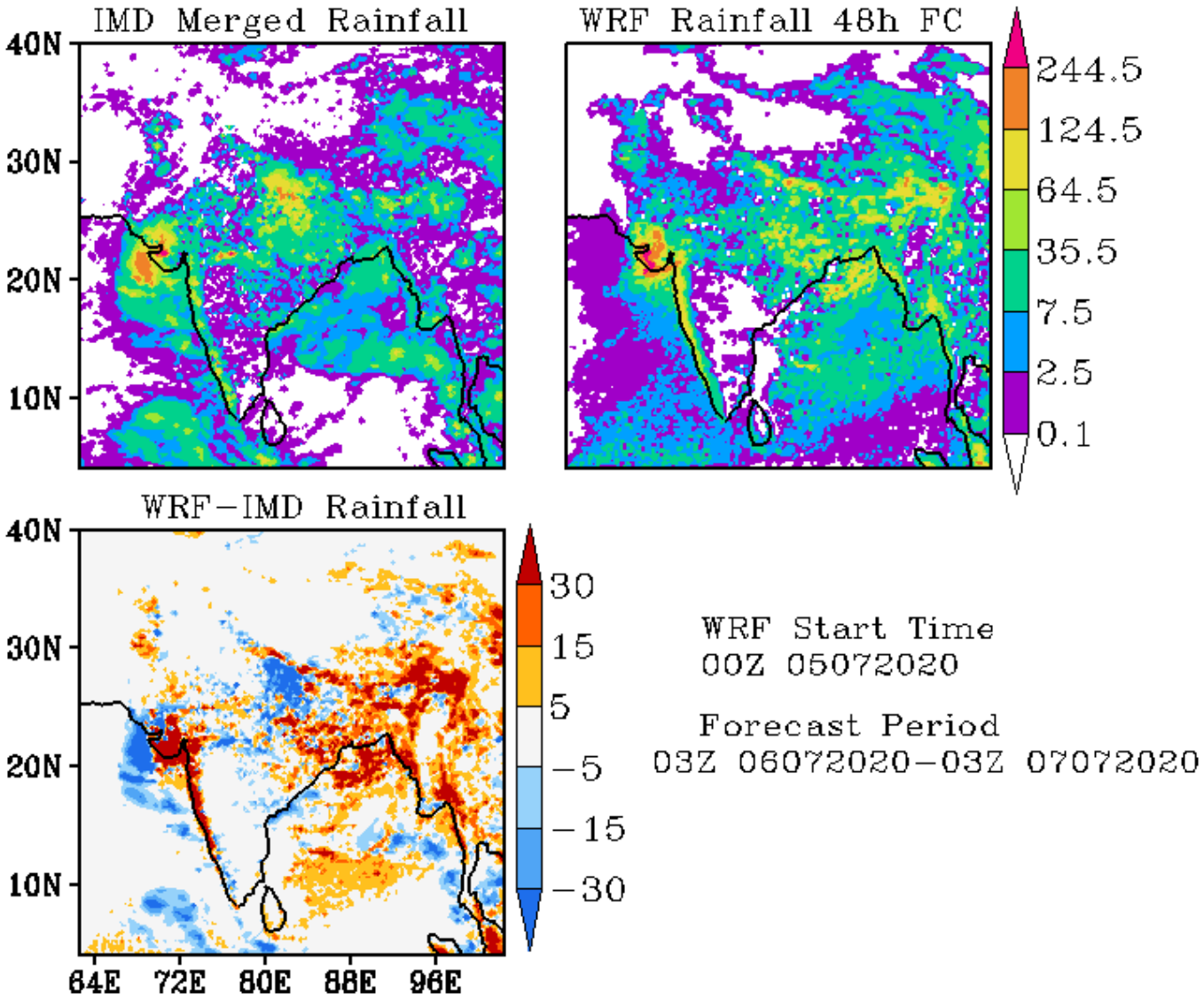
15
5
−5
−15
−30
40N
30N
20N
10N
64E
72E
80E
88E
96E
WRF Start Time
00Z 05072020
Forecast Period
03Z 05072020−03Z 06072020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WRF Rainfall 48h FC
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124.5
64.5
35.5
7.5
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0.1
WRF−IMD Rainfall
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5
−5
−15
−30
40N
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72E
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88E
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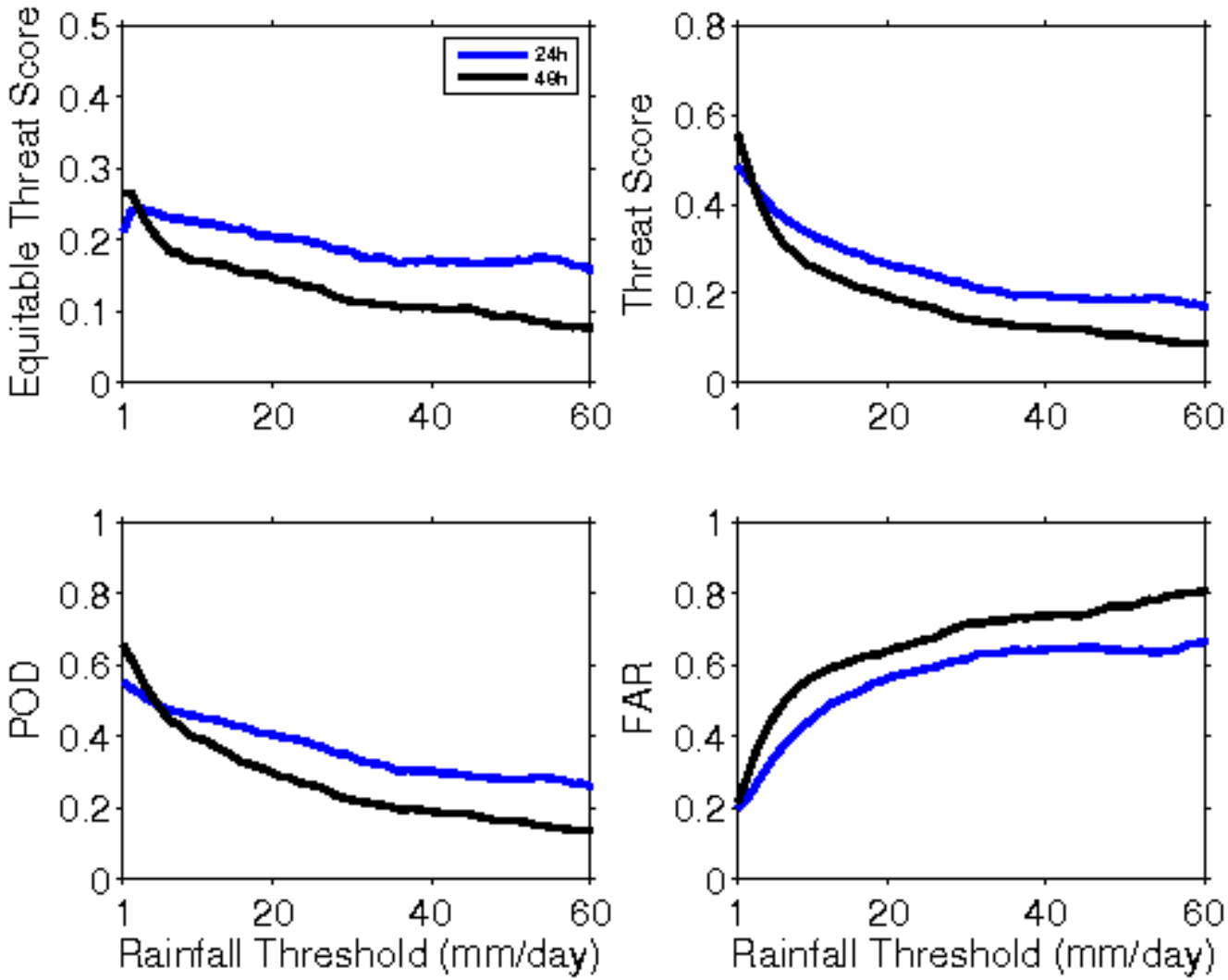
WRF Start Time
00Z 05072020
Forecast Period
03Z 06072020−03Z 07072020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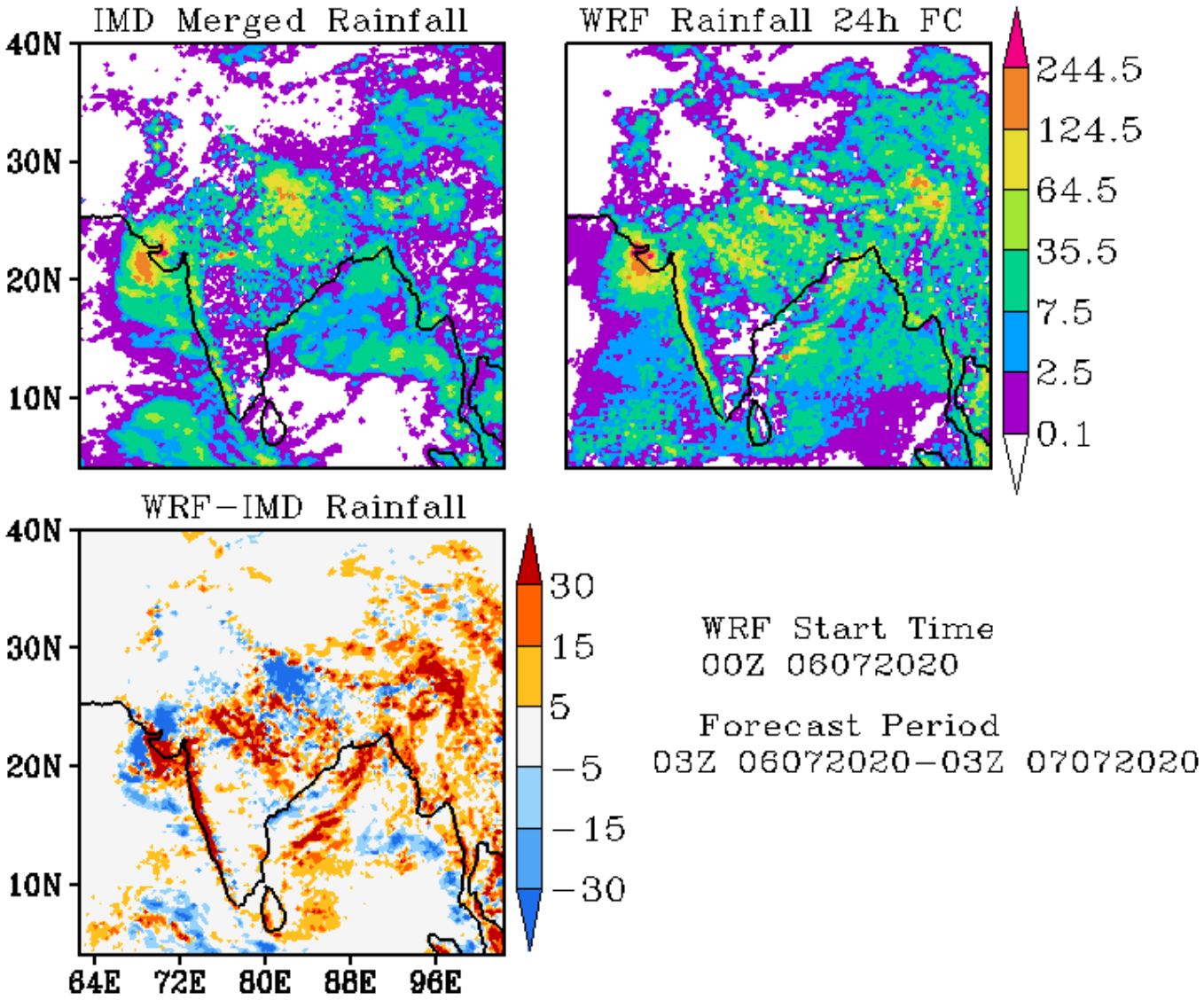
0.5
0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
POD
1
0.8
0.6
0.4
0.2
0
Rainfall Threshold (mm/day)
FAR
Rainfall Threshold (mm/day)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WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
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5
−5
−15
−30
40N
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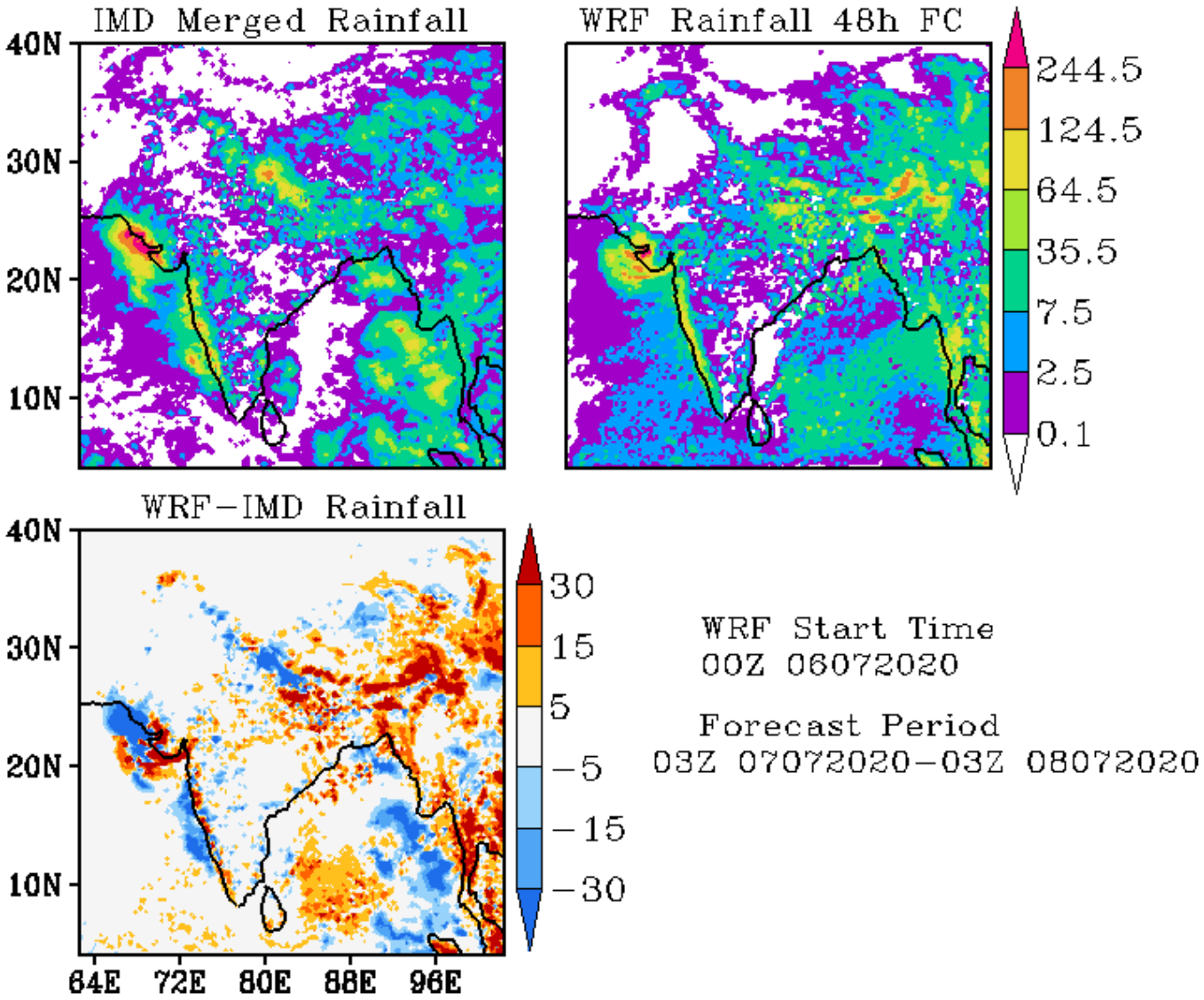
72E
80E
88E
96E
WRF Start Time
00Z 06072020
Forecast Period
03Z 06072020−03Z 07072020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2.5
0.1
WRF−IMD Rainfall
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−5
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88E
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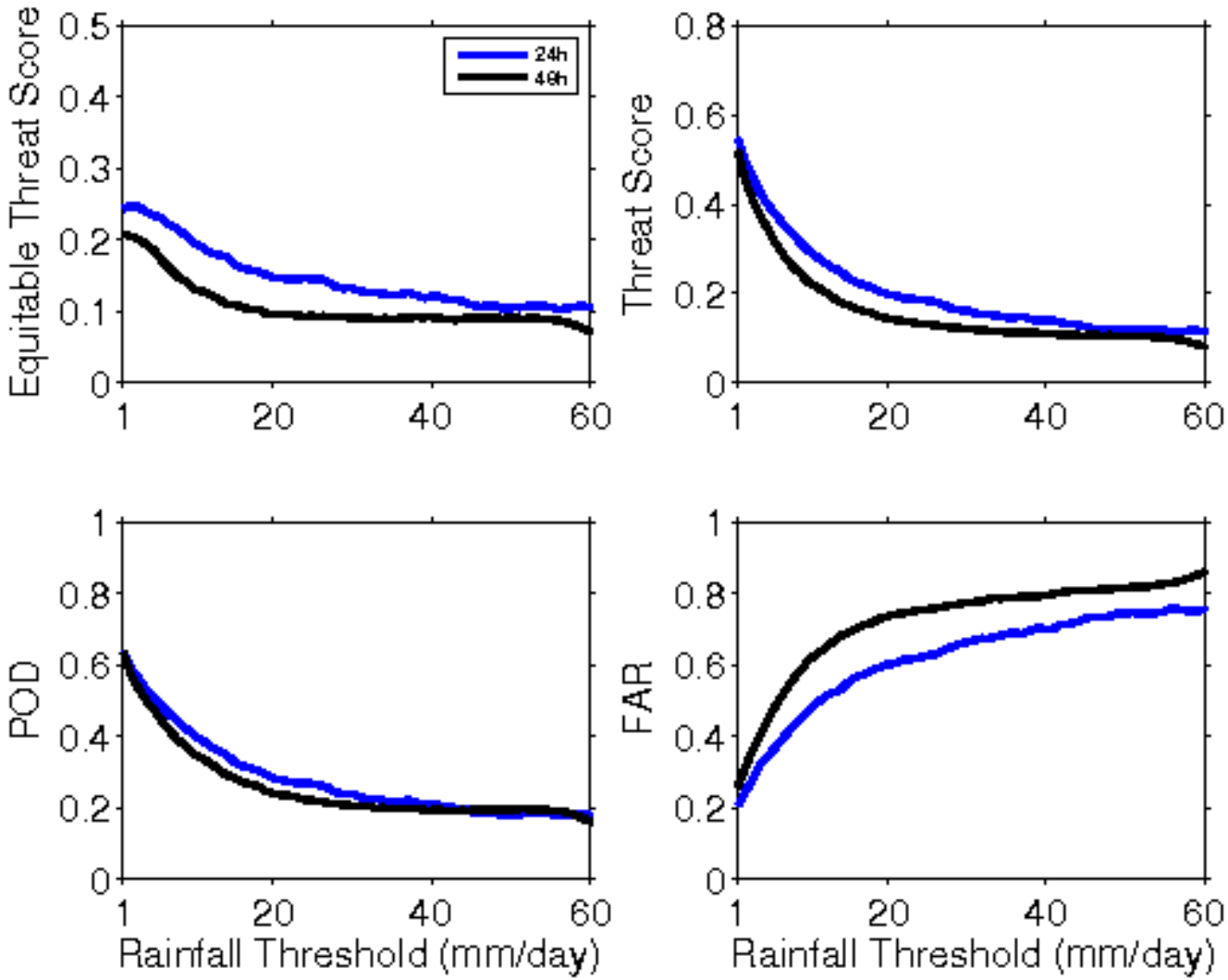
00Z 06072020
Forecast Period
03Z 07072020−03Z 08072020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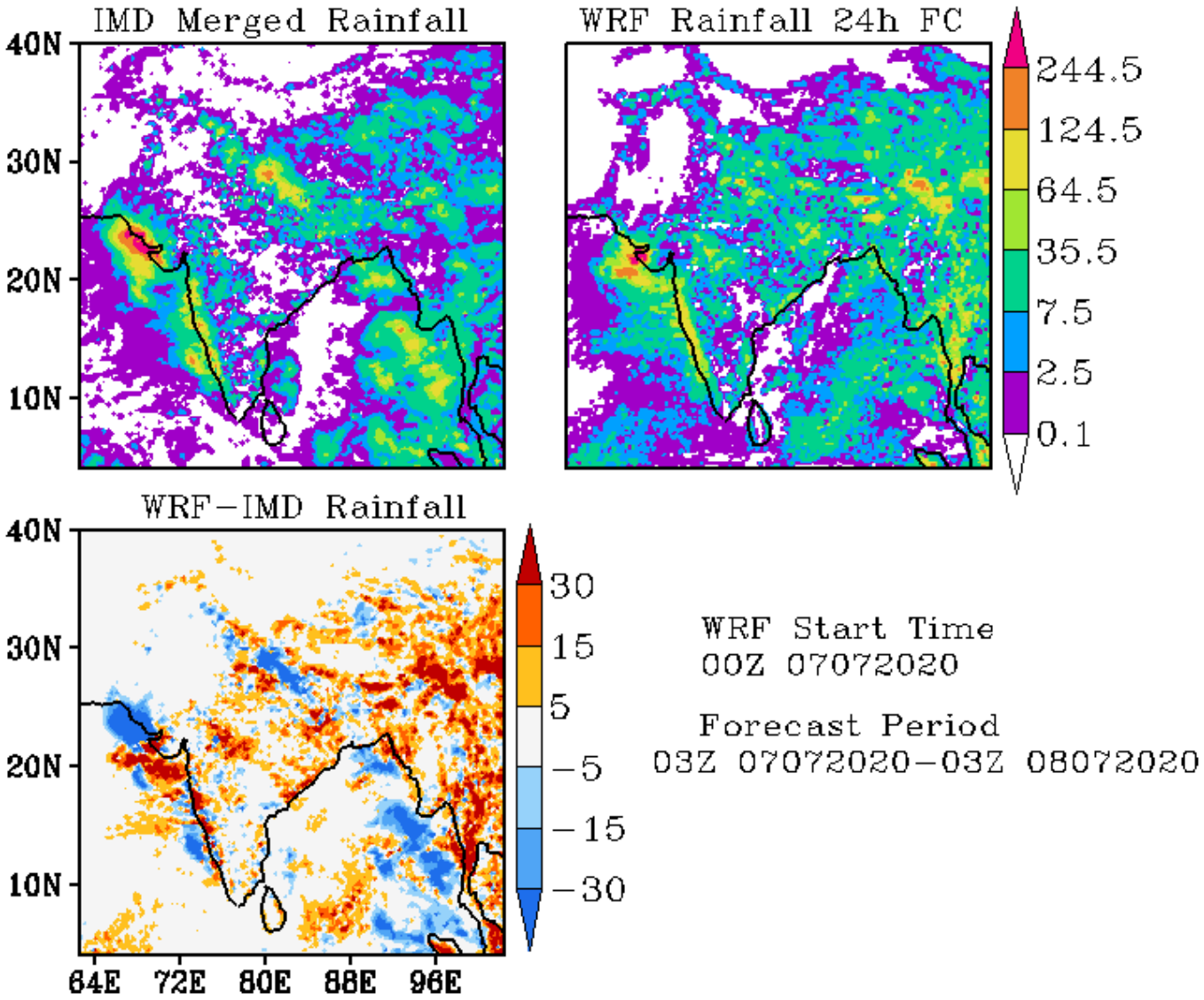
0.5
0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)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124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
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5
−5
−15
−30
40N
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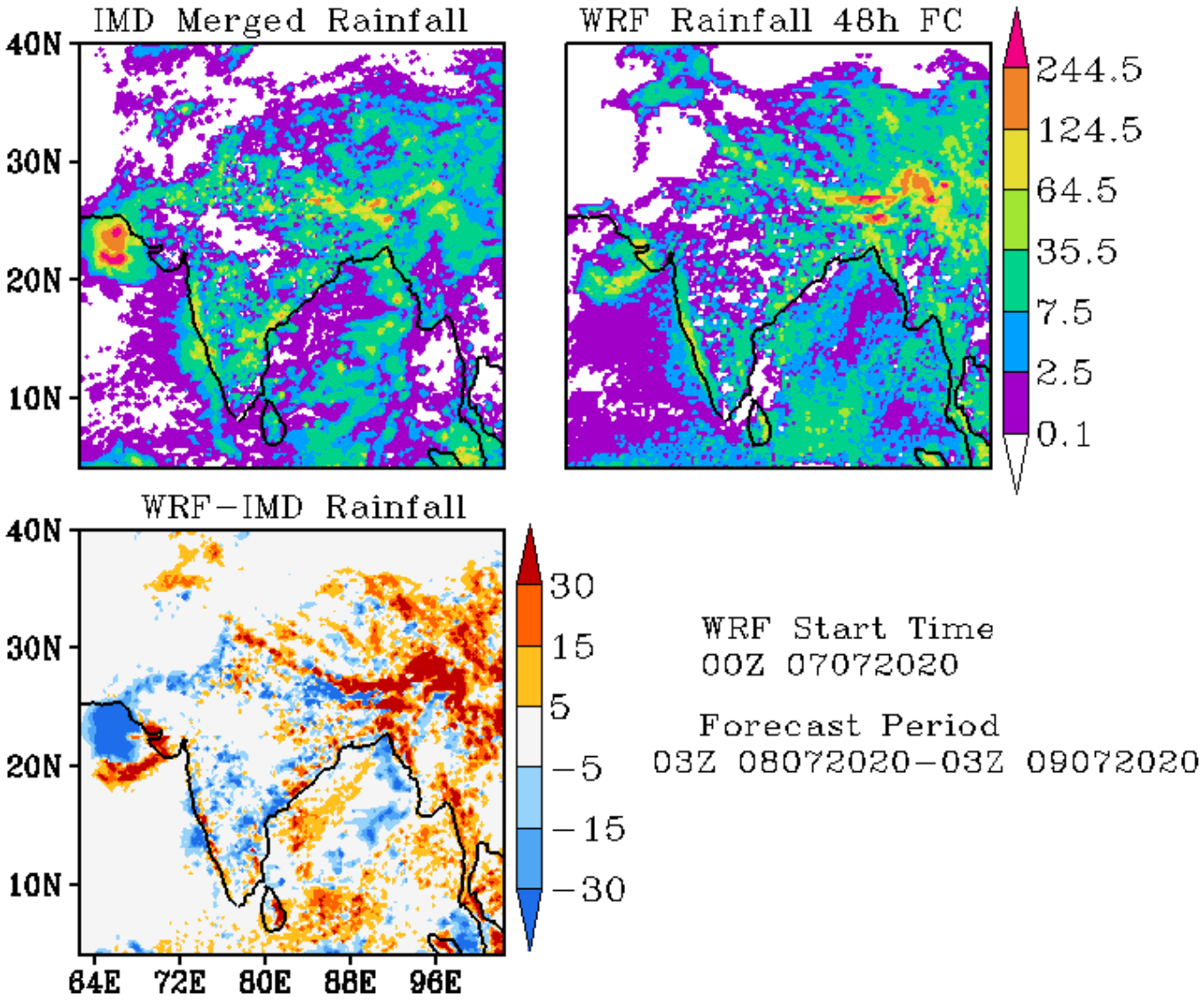
72E
80E
88E
96E
WRF Start Time
00Z 07072020
Forecast Period
03Z 07072020−03Z 08072020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WRF Rainfall 48h FC
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64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
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5
−5
−15
−30
40N
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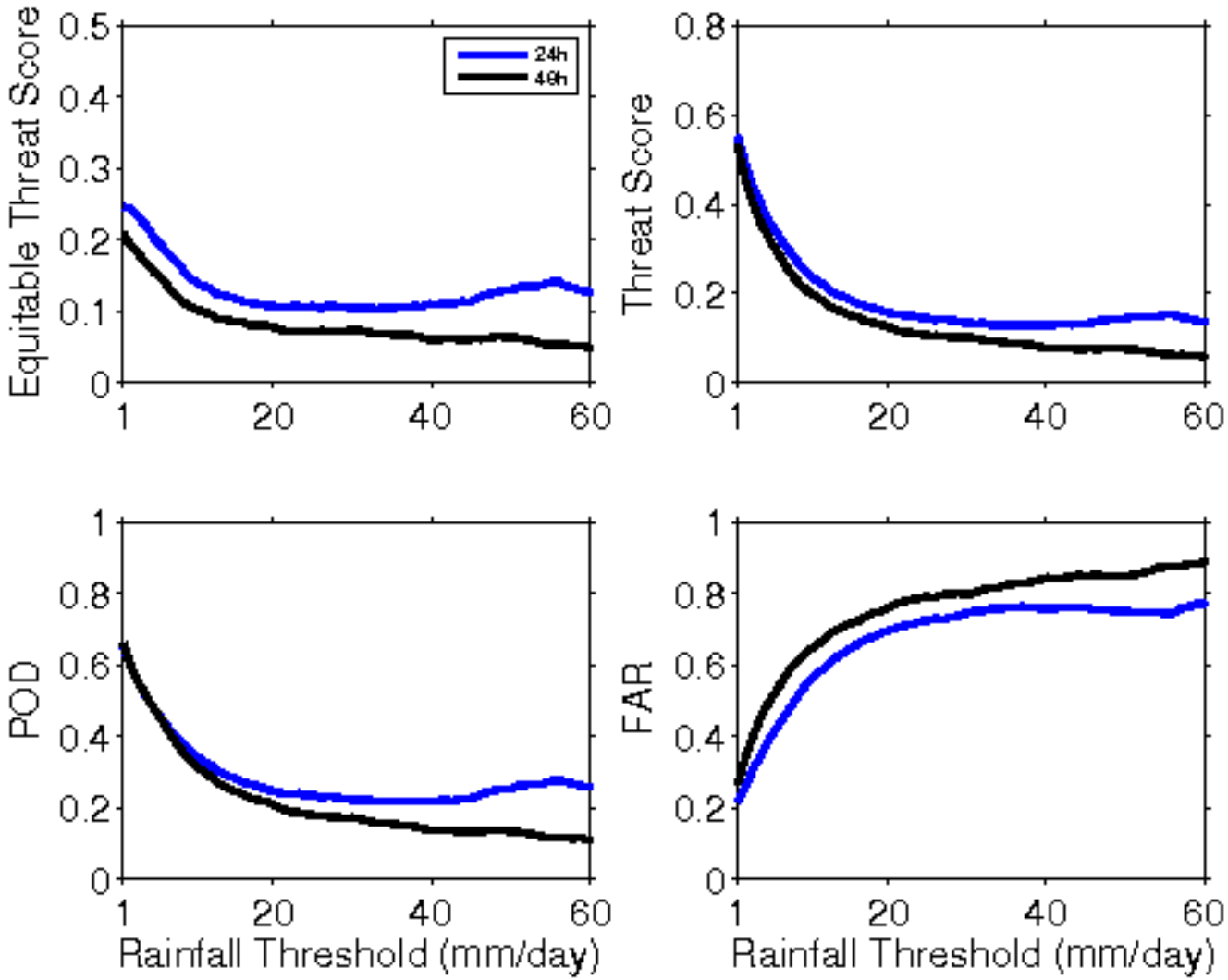
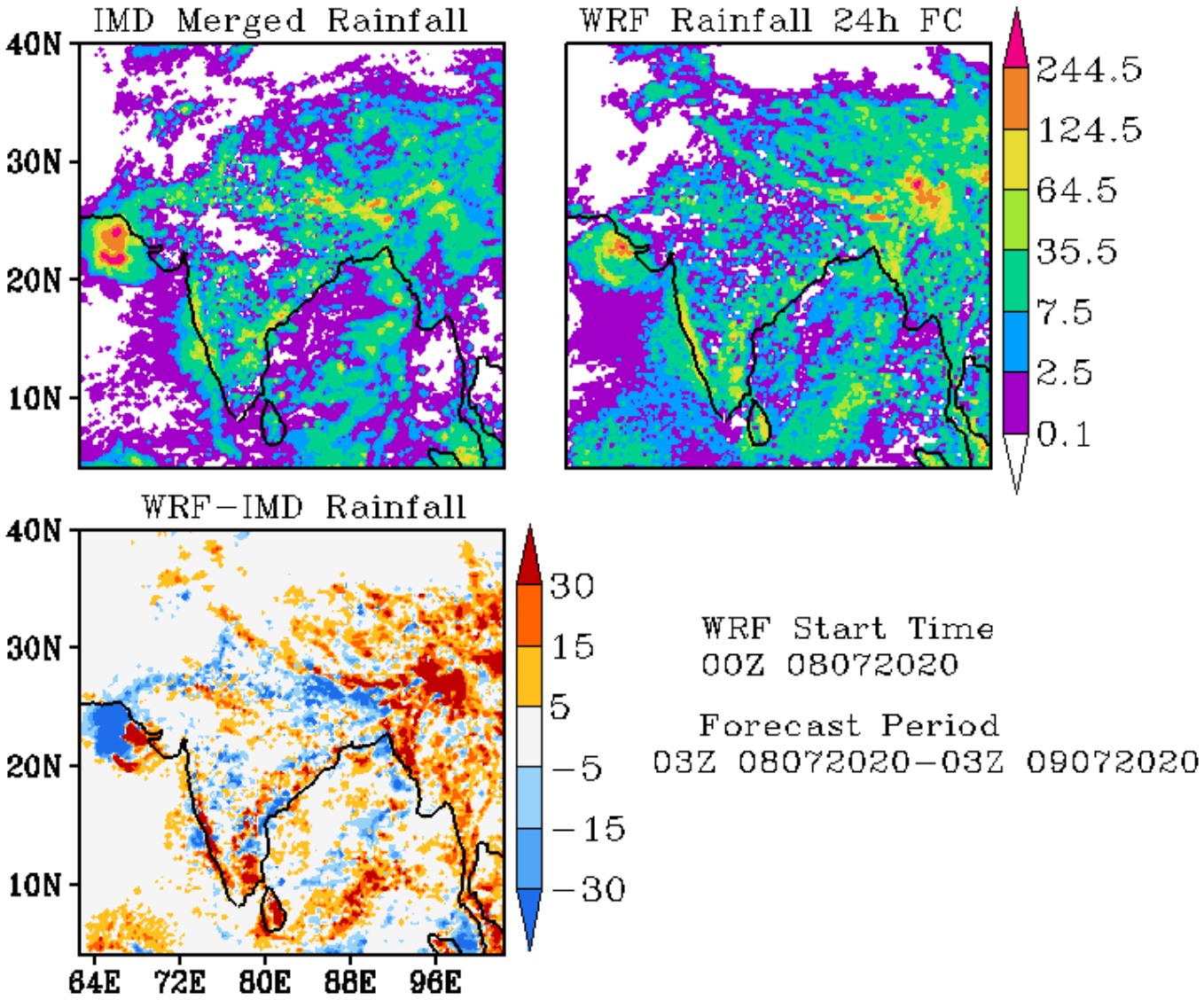
72E
80E
88E
96E
WRF Start Time
00Z 07072020
Forecast Period
03Z 08072020−03Z 09072020


Equitable Threat Score
Threat Score
POD
FAR
24h
48h
0
0.1
0.2
0.3
0.4
0.5
0.6
0.8
1
1
20
40
60
Rainfall Threshold (mm/day)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WRF Rainfall 24h FC
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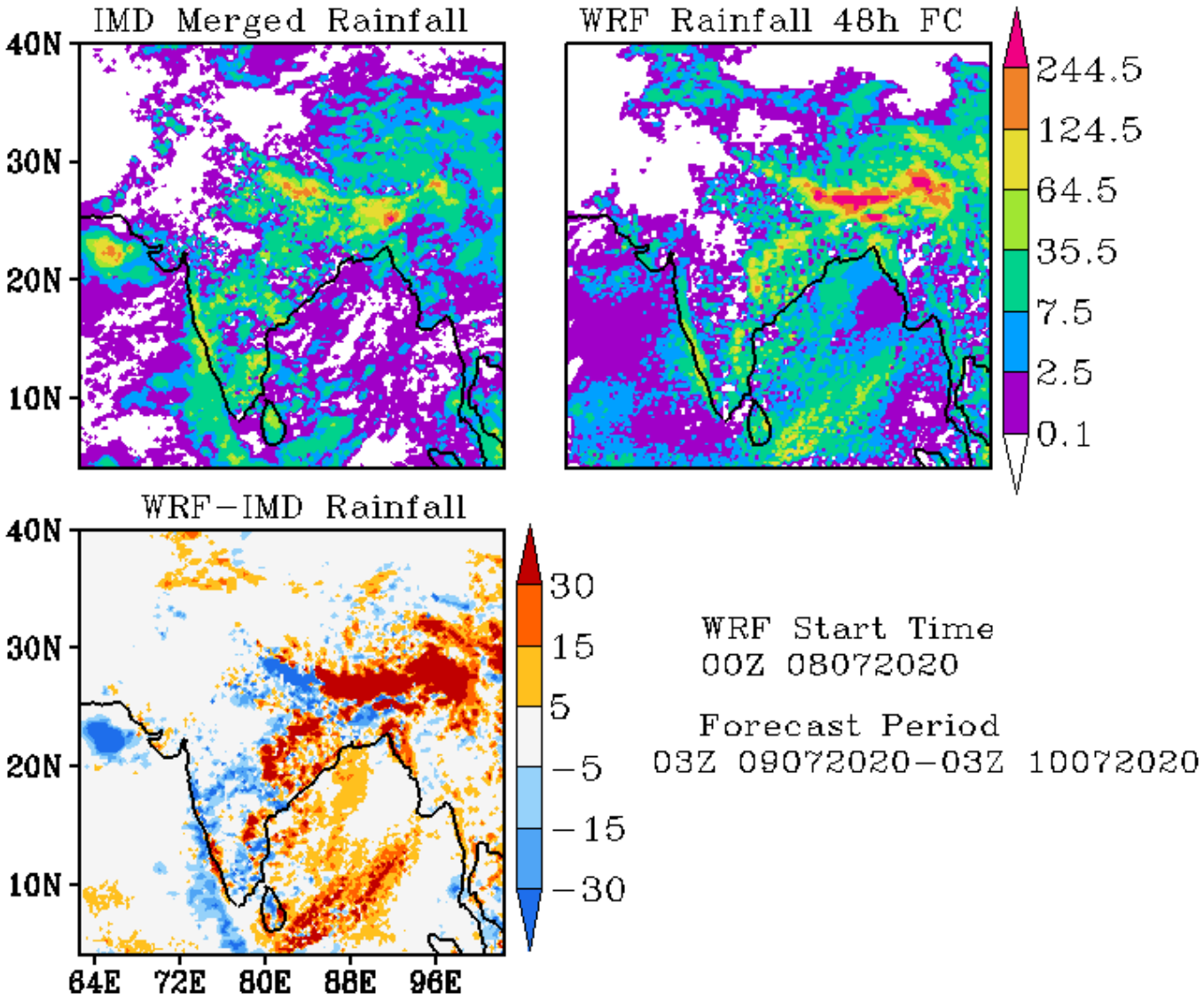
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
30N
20N
10N
64E
72E
80E
88E
96E
WRF Start Time
00Z 08072020
Forecast Period
03Z 08072020−03Z 09072020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WRF Rainfall 48h FC
WRF−IMD Rainfall
40N
30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
2.5
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15
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−5
−15
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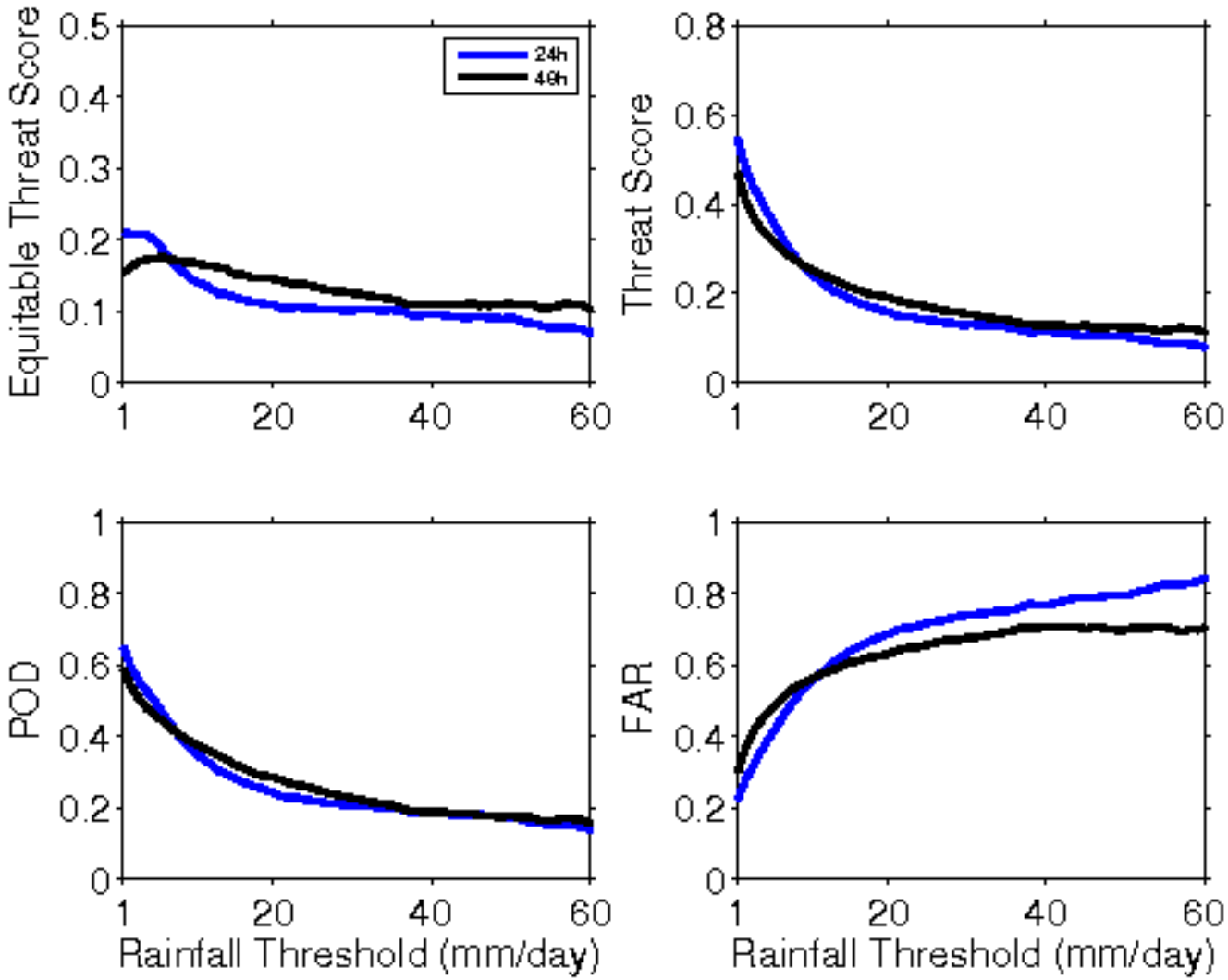
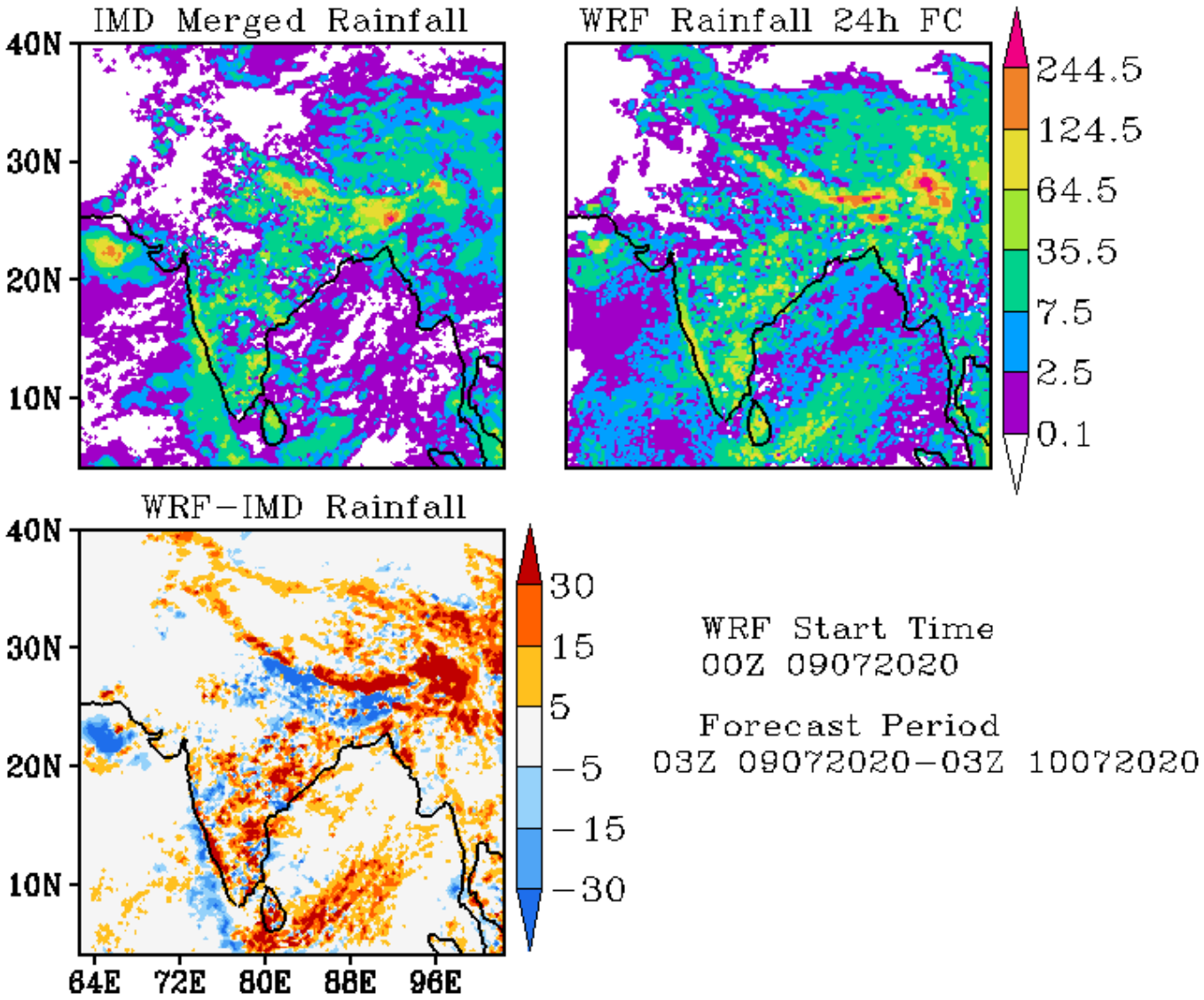
WRF Start Time
00Z 08072020
Forecast Period
03Z 09072020−03Z 10072020


Equitable Threat Score
0.5
0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)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WRF Rainfall 24h FC
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124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
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15
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−5
−15
−30
40N
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80E
88E
96E
WRF Start Time
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Forecast Period
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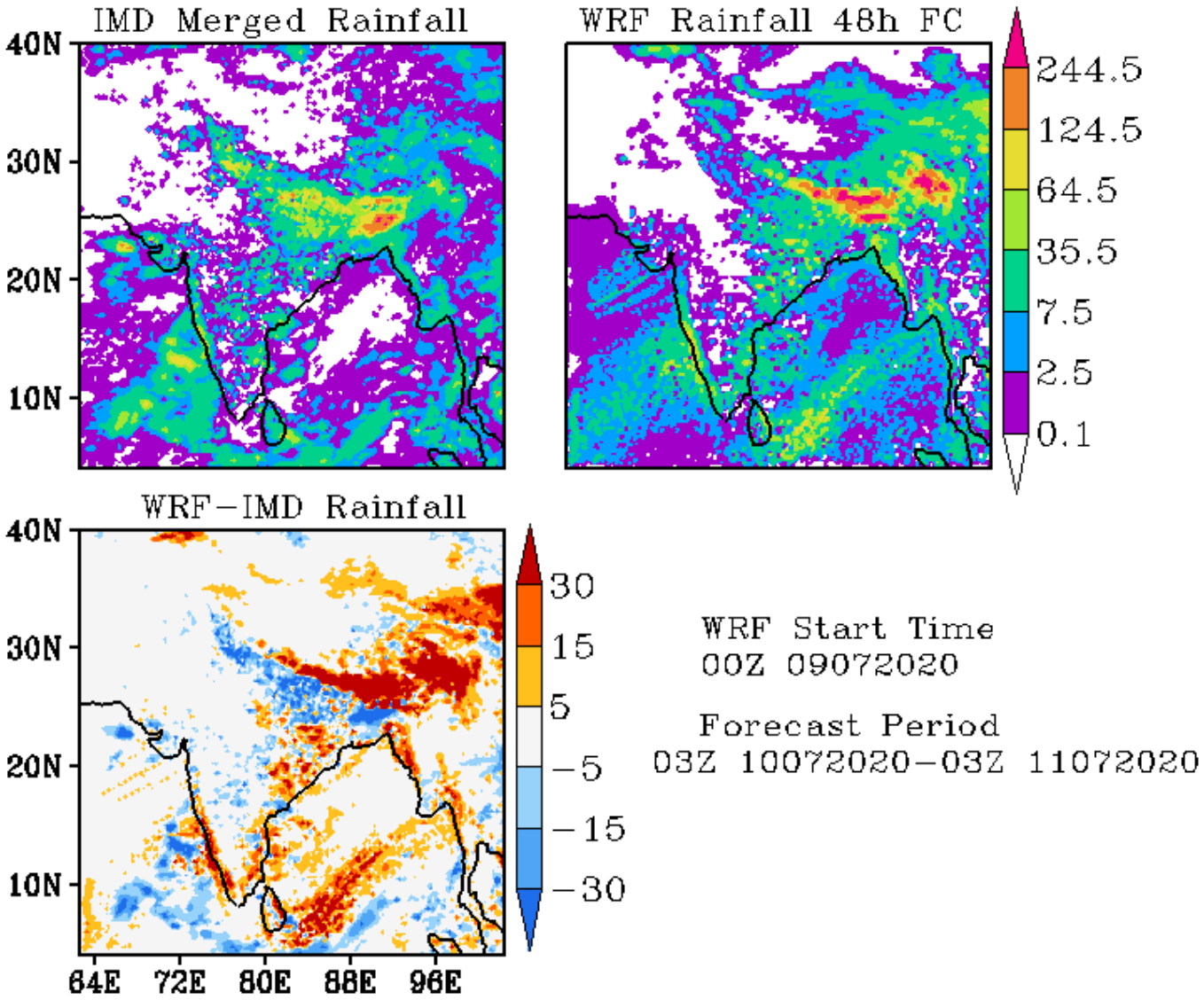
IMD Merged Rainfall
WRF Rainfall 48h FC
WRF−IMD Rainfall
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30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
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WRF Start Time
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Forecast Period
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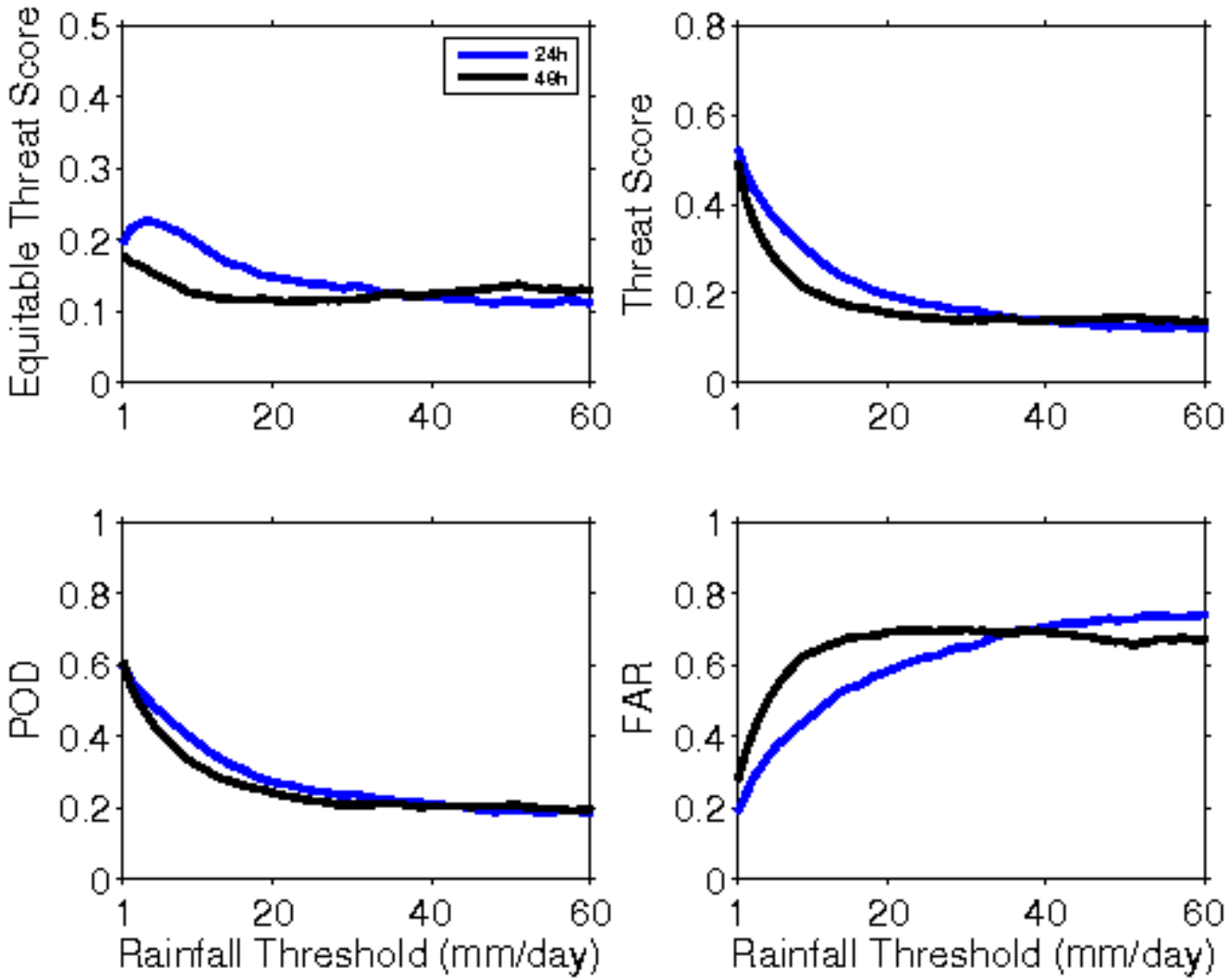
Equitable Threat Score
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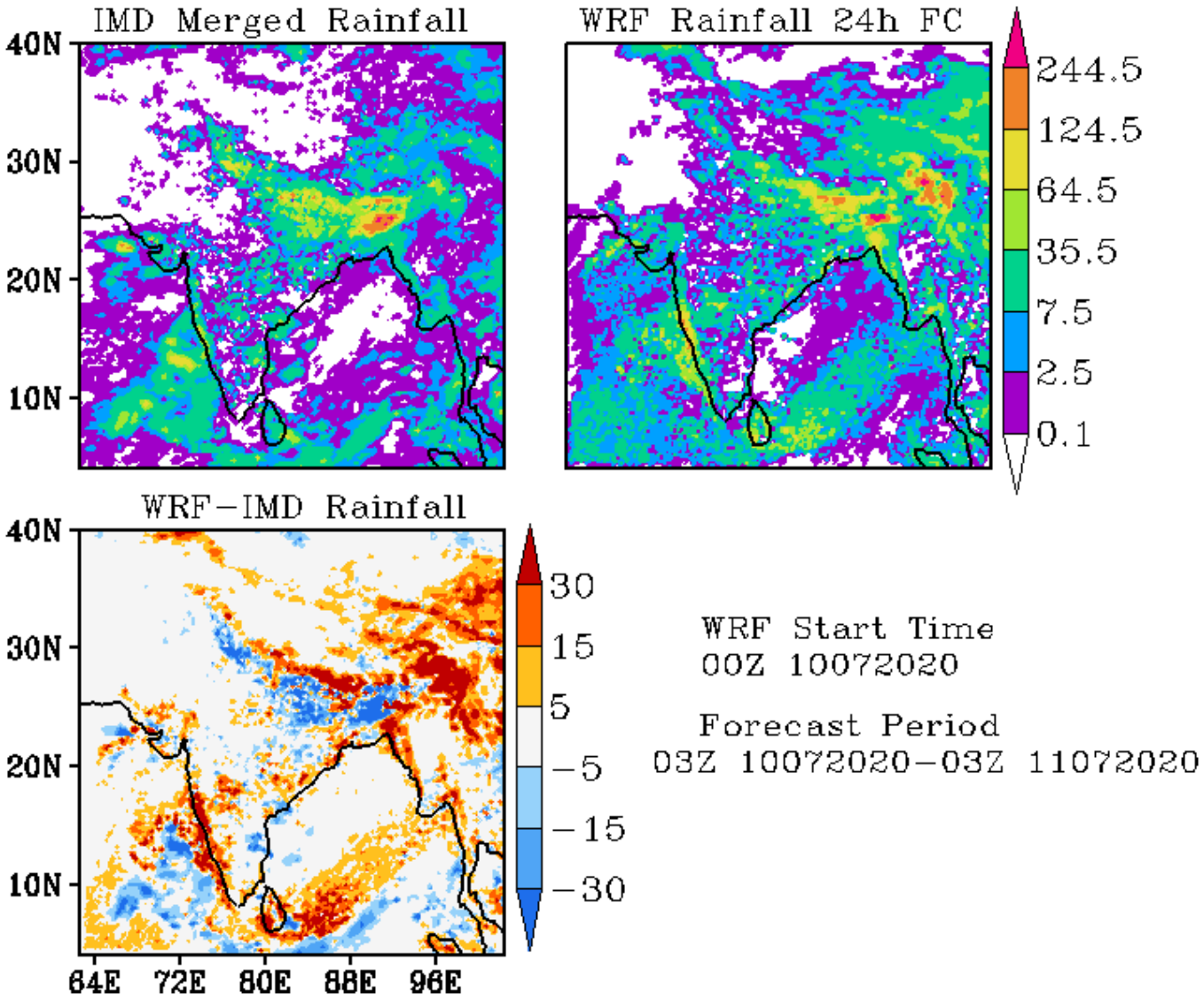
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)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WRF Rainfall 24h FC
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64.5
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7.5
2.5
0.1
WRF−IMD Rainfall
30
15
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−5
−15
−30
40N
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80E
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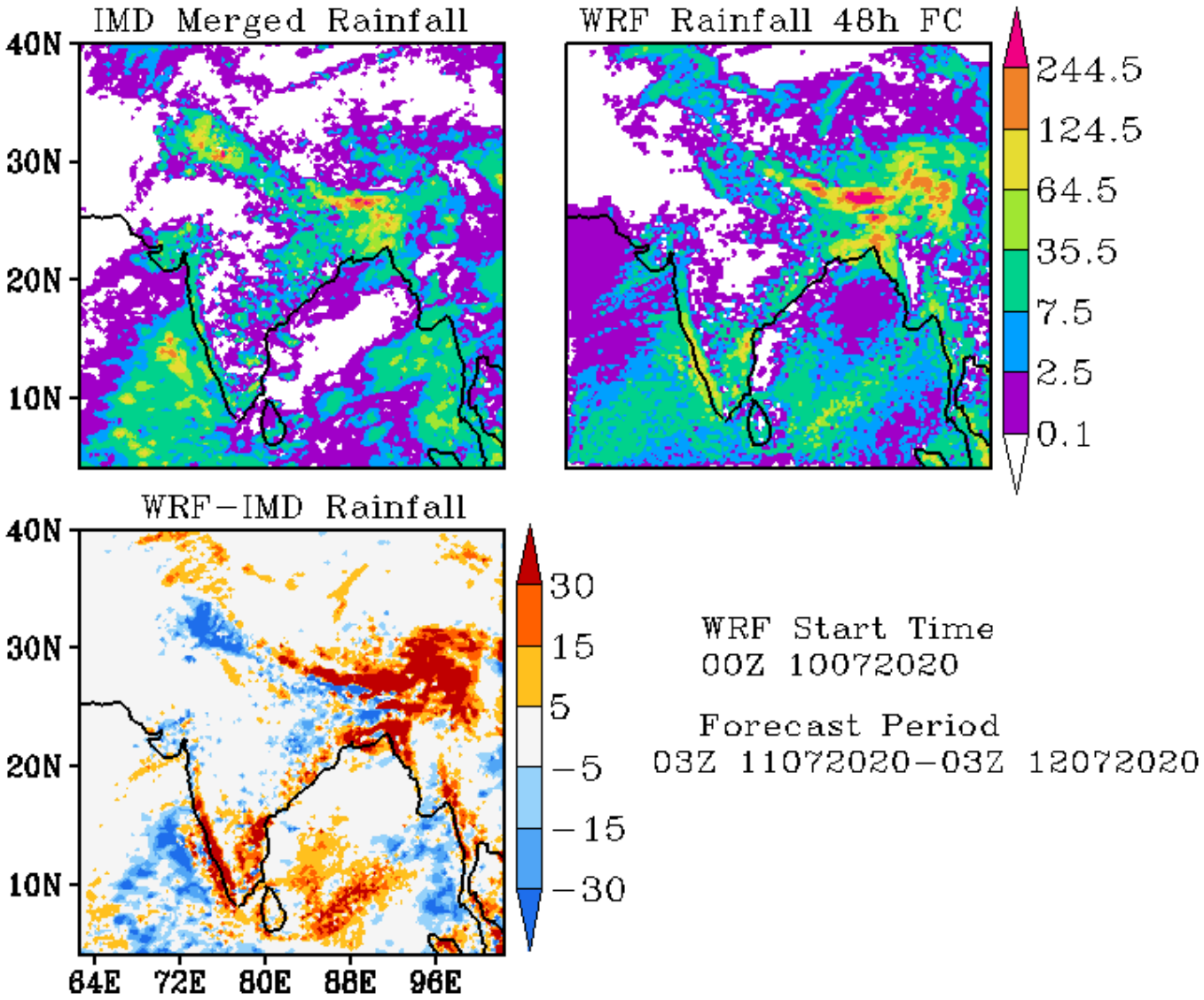
96E
WRF Start Time
00Z 10072020
Forecast Period
03Z 10072020−03Z 11072020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WRF Rainfall 48h FC
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64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
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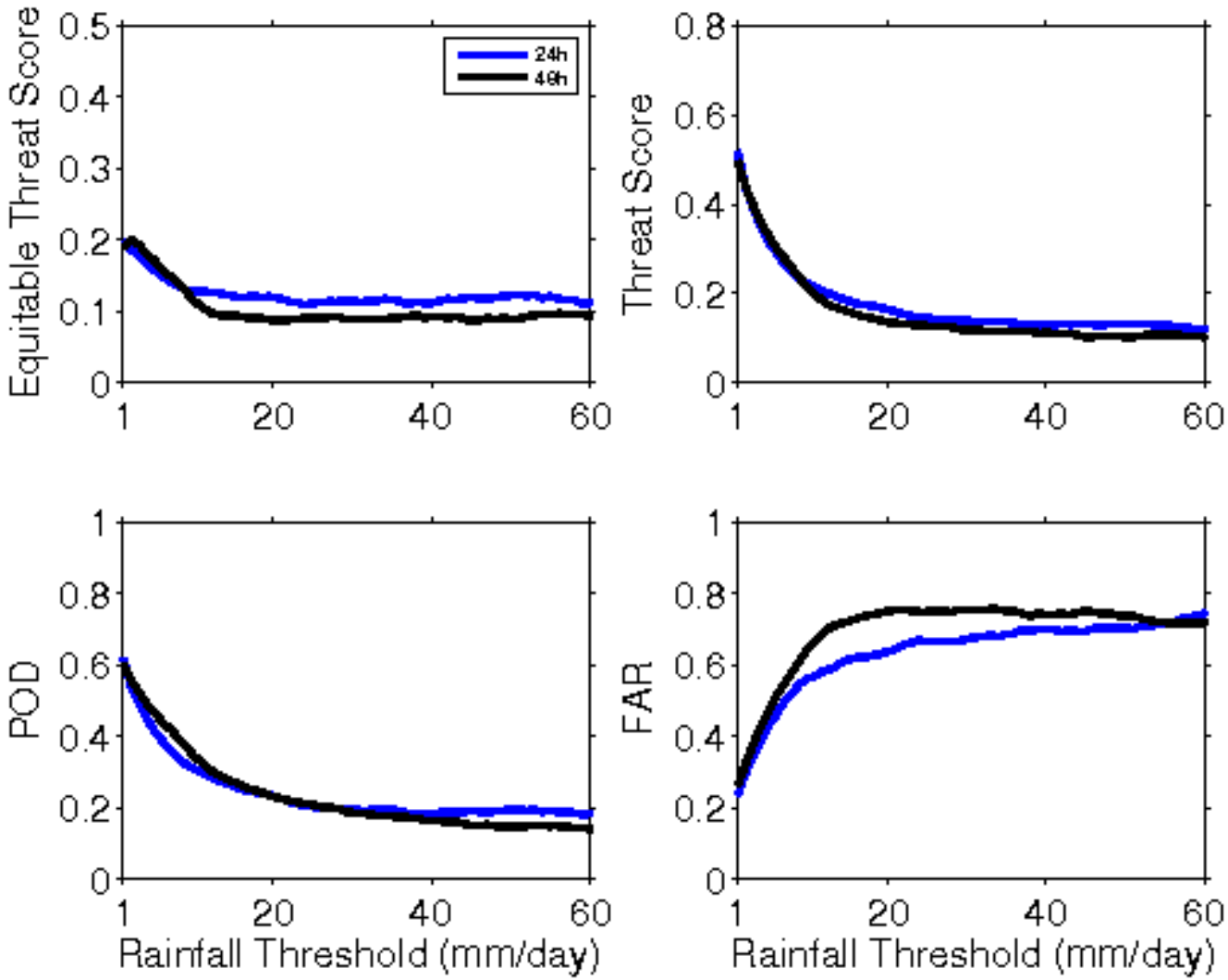
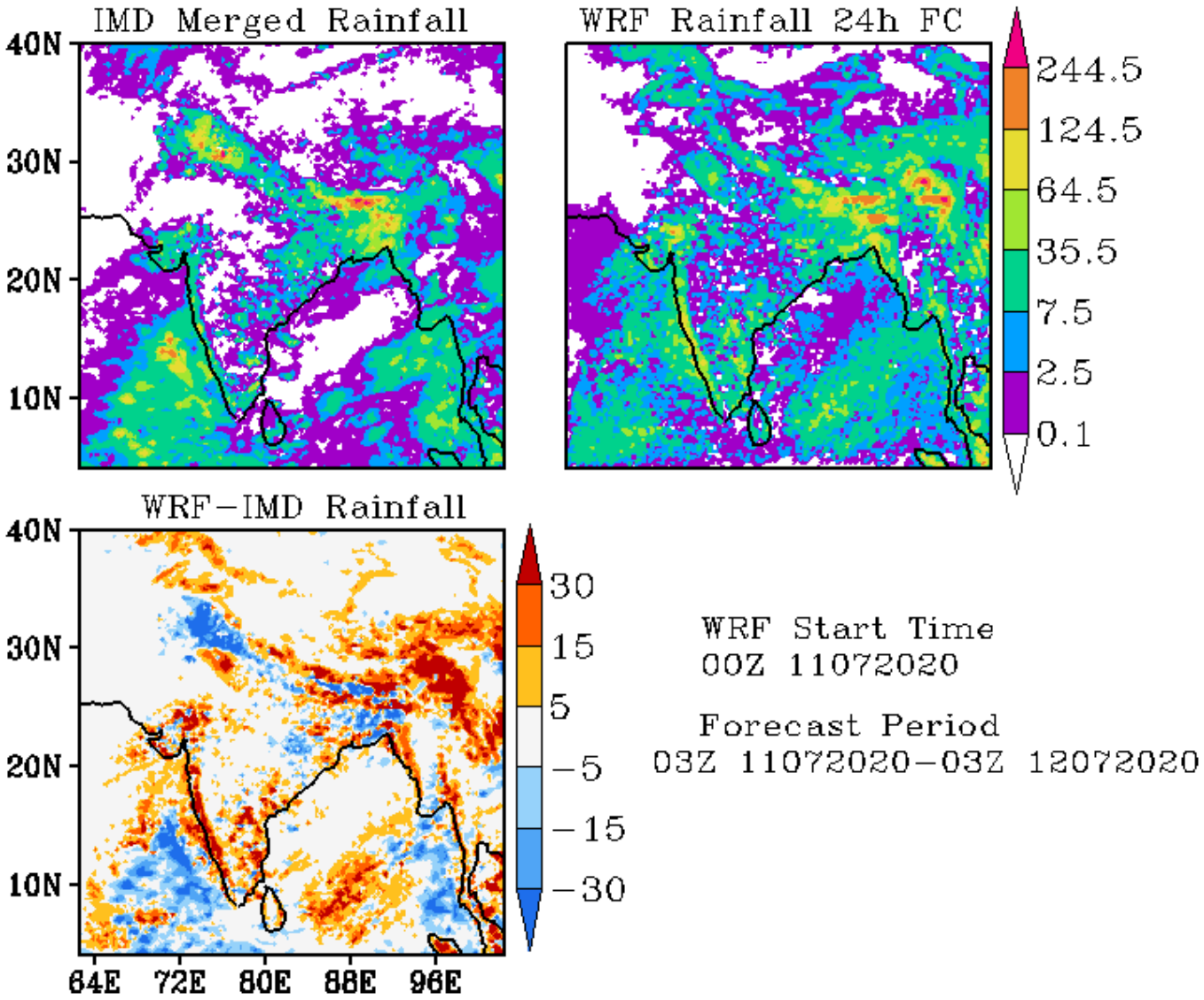
72E
80E
88E
96E
WRF Start Time
00Z 10072020
Forecast Period
03Z 11072020−03Z 12072020


Equitable Threat Score
Threat Score
POD
FAR
24h
48h
0
0.1
0.2
0.3
0.4
0.5
0.6
0.8
1
20
40
60
Rainfall Threshold (mm/day)


IMD Merged Rainfall
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124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
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15
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−5
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40N
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80E
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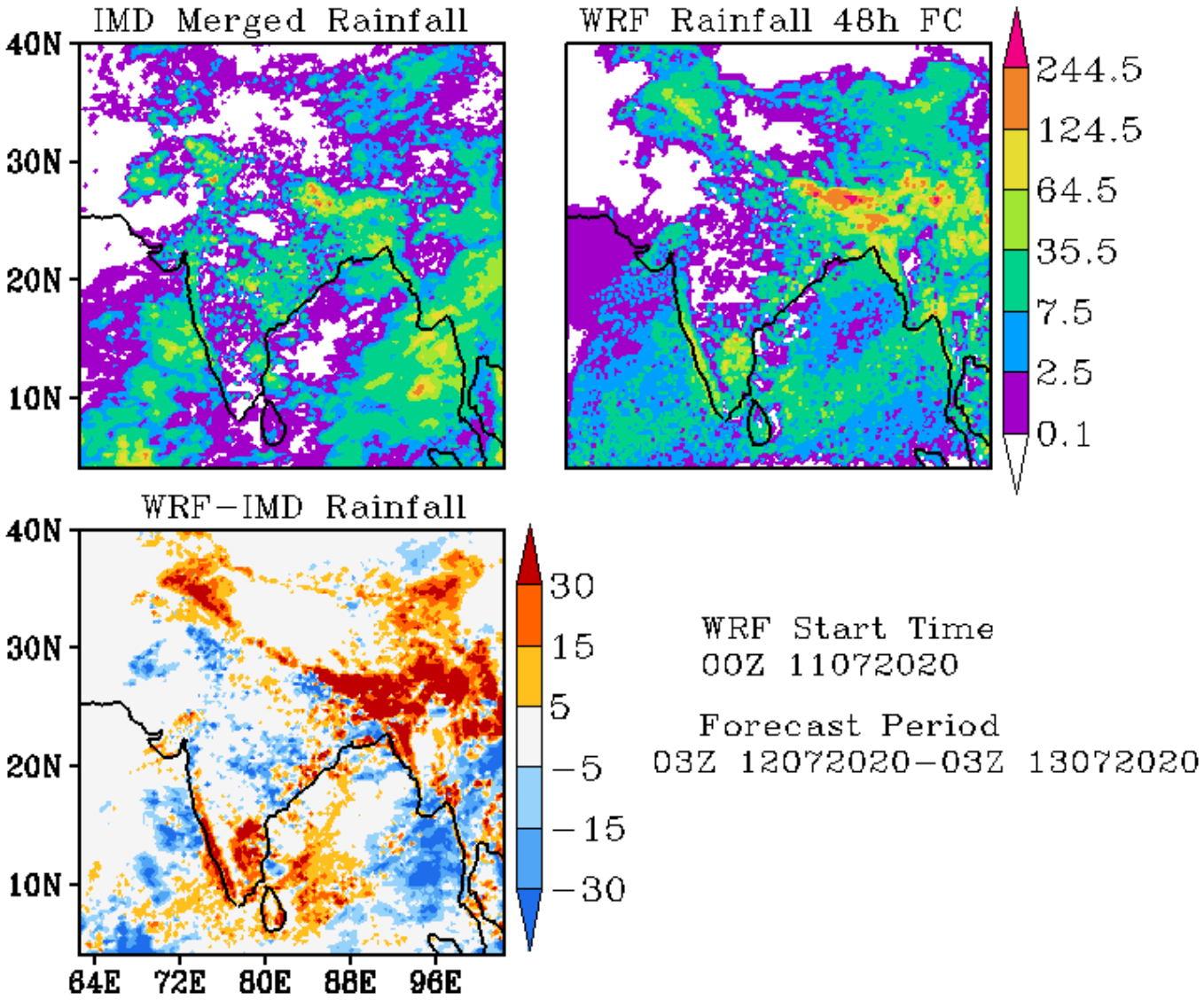
96E
WRF Start Time
00Z 11072020
Forecast Period
03Z 11072020−03Z 12072020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64.5
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7.5
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WRF−IMD Rainfall
30
15
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−5
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40N
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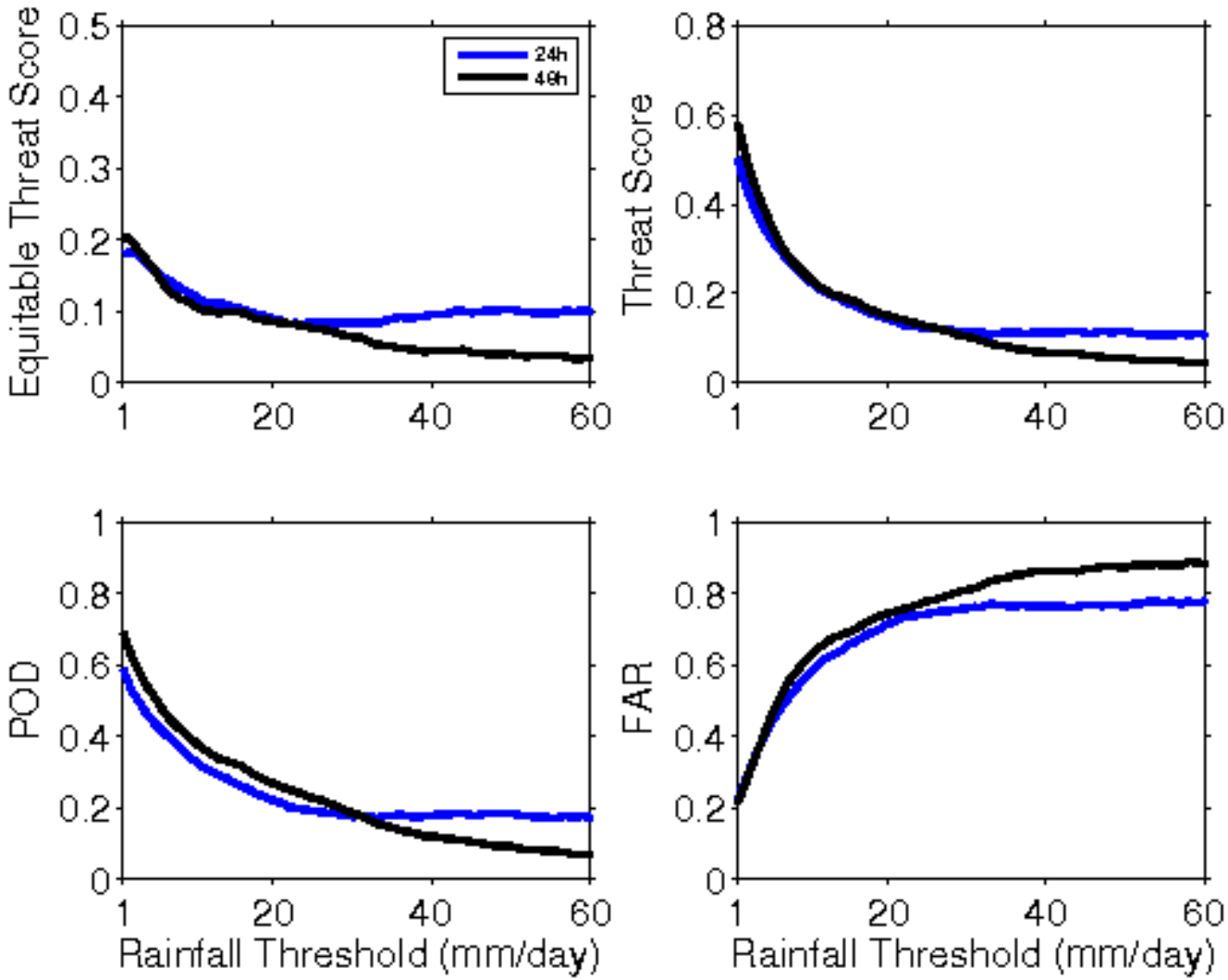
80E
88E
96E
WRF Start Time
00Z 11072020
Forecast Period
03Z 12072020−03Z 13072020


Equitable Threat Score
0.5
0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
POD
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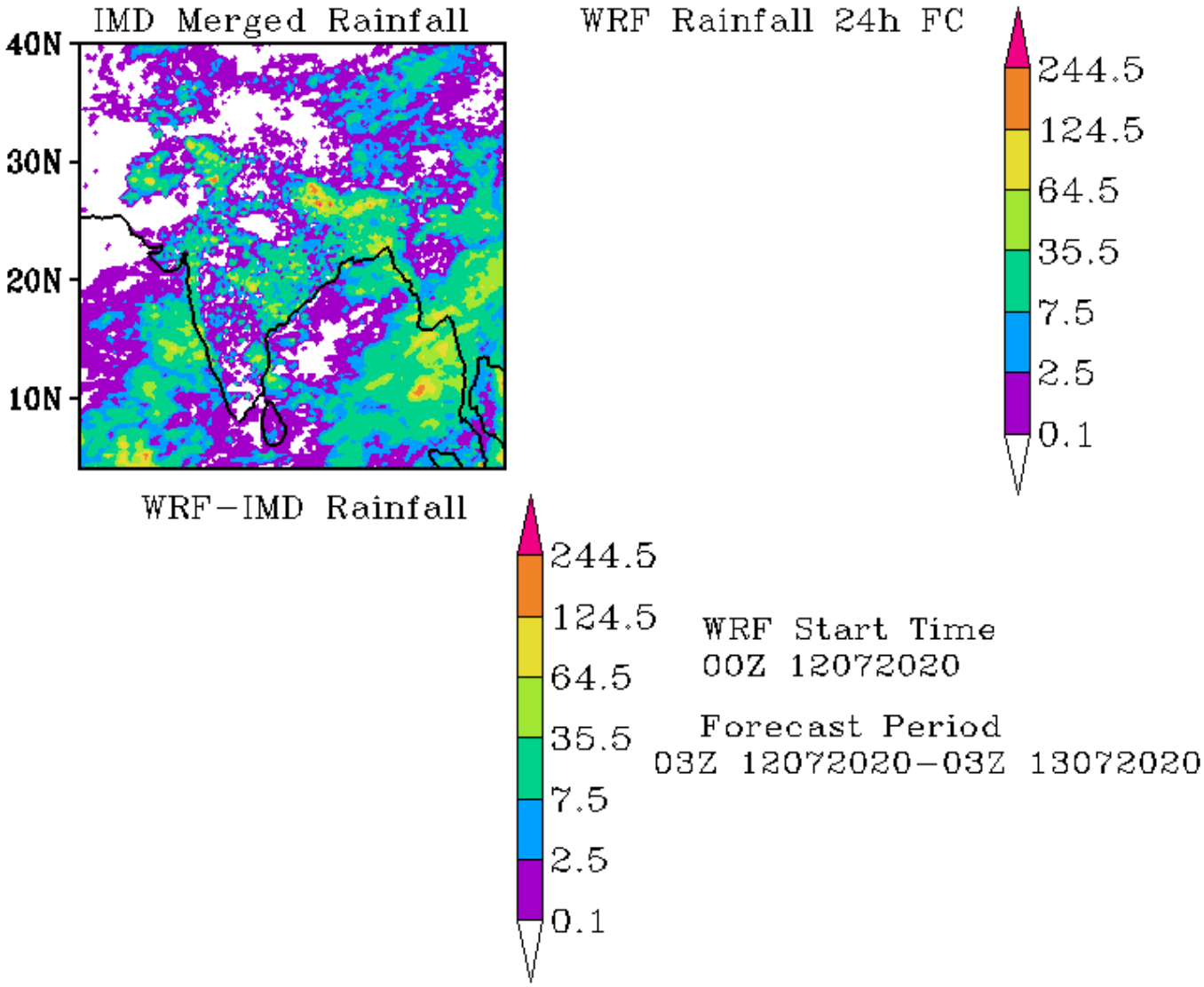
0.8
0.6
0.4
0.2
0
Rainfall Threshold (mm/day)
FAR
Rainfall Threshold (mm/day)


IMD Merged Rainfall
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30N
20N
10N
WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
244.5
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7.5
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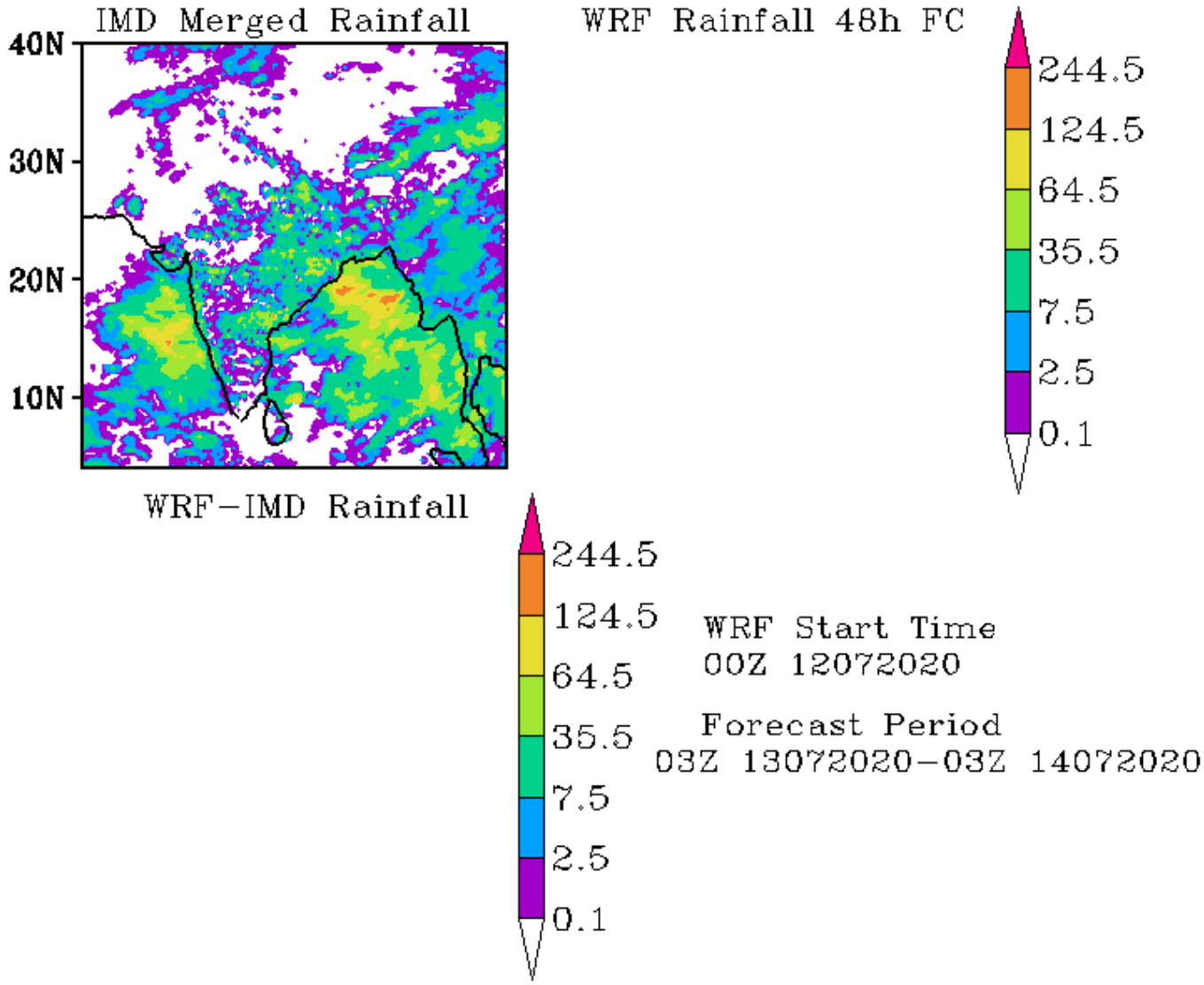
0.1
WRF Start Time
00Z 12072020
Forecast Period
03Z 12072020−03Z 13072020


IMD Merged Rainfall
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30N
20N
10N
WRF Rainfall 48h FC
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35.5
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2.5
0.1
WRF−IMD Rainfall
244.5
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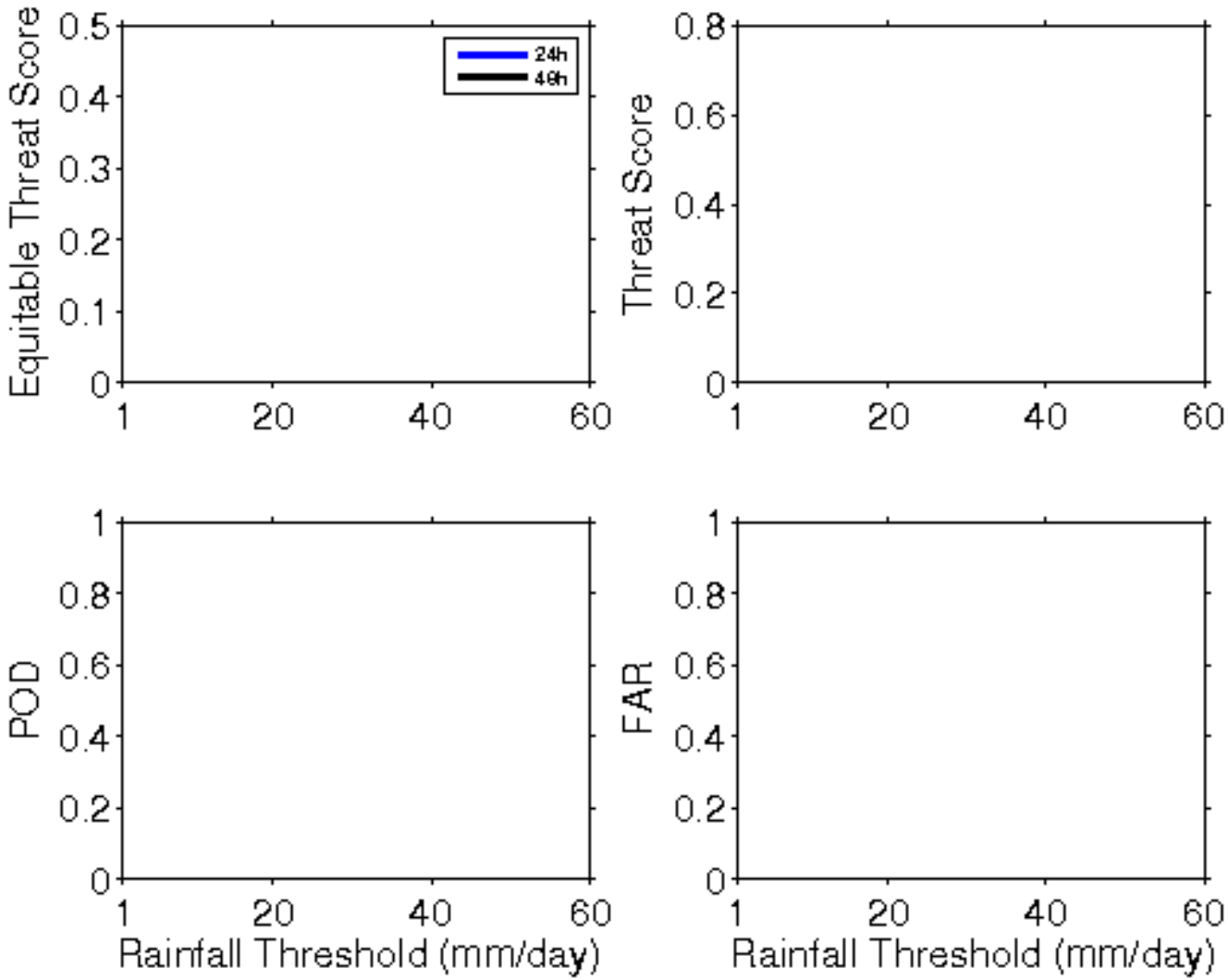
7.5
2.5
0.1
WRF Start Time
00Z 12072020
Forecast Period
03Z 13072020−03Z 14072020


Equitable Threat Score
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0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
0.6
0.4
0.2
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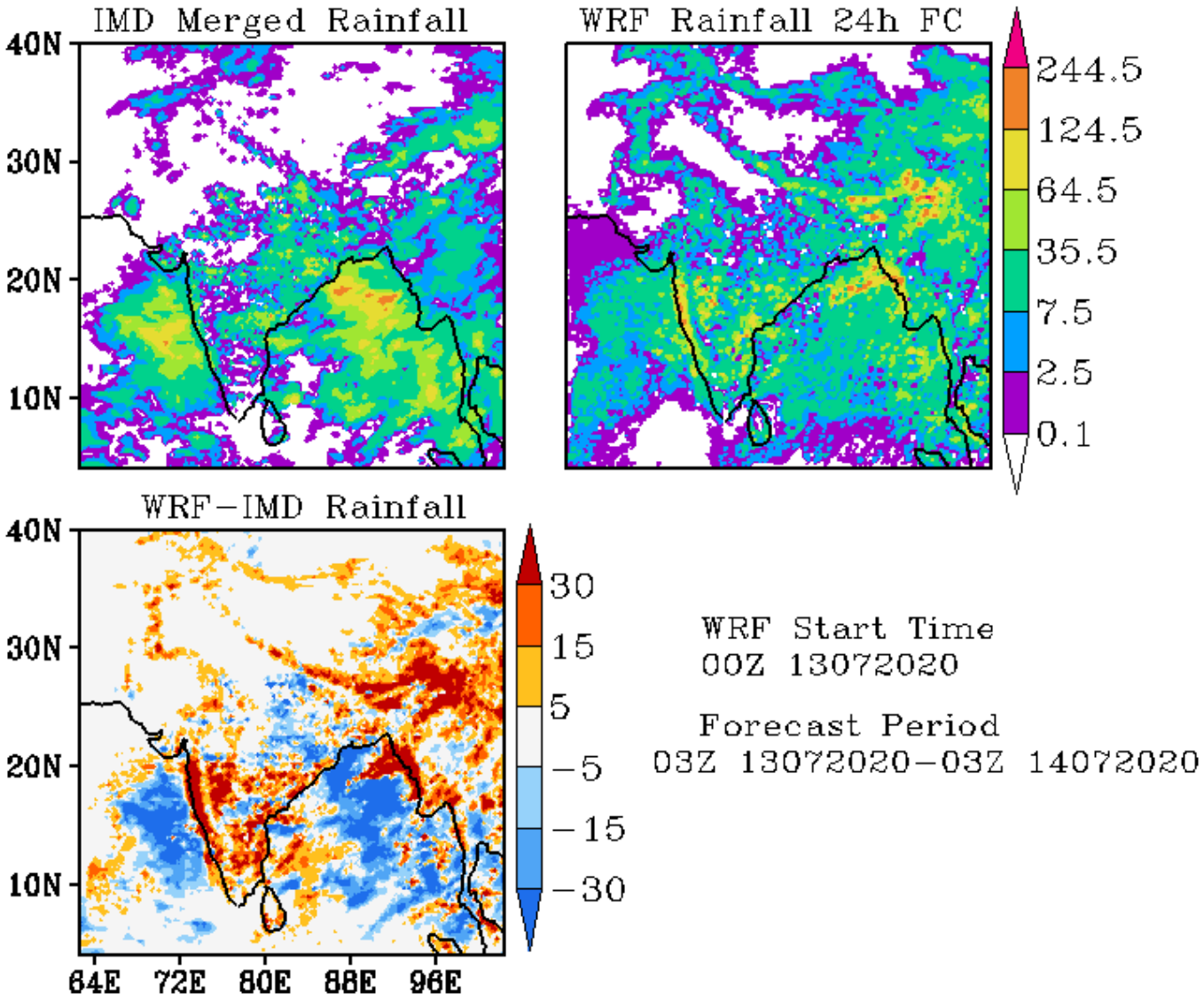
1
20
40
60
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
30N
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10N
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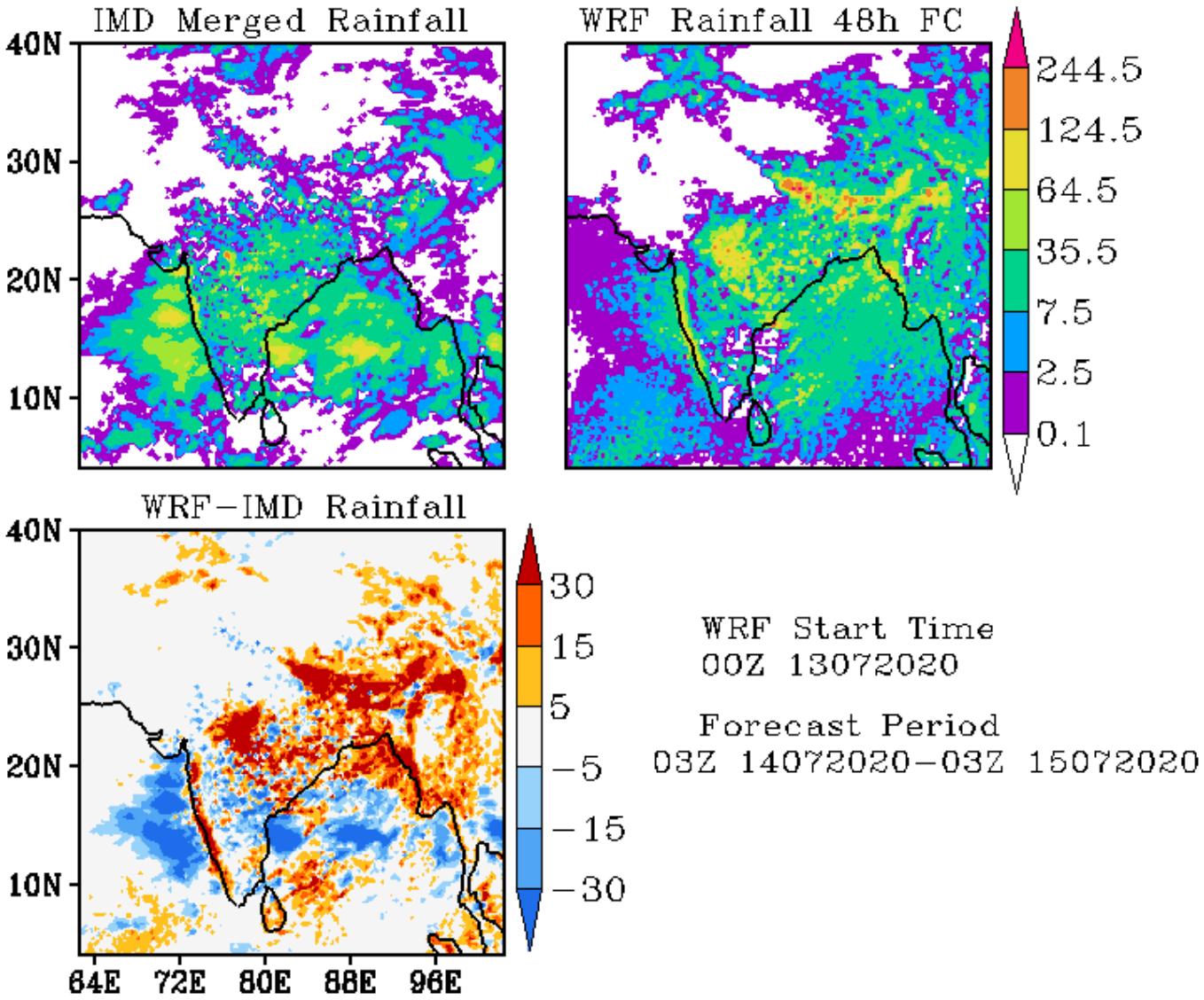
72E
80E
88E
96E
WRF Start Time
00Z 13072020
Forecast Period
03Z 13072020−03Z 14072020


IMD Merged Rainfall
WRF Rainfall 48h FC
WRF−IMD Rainfall
40N
30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
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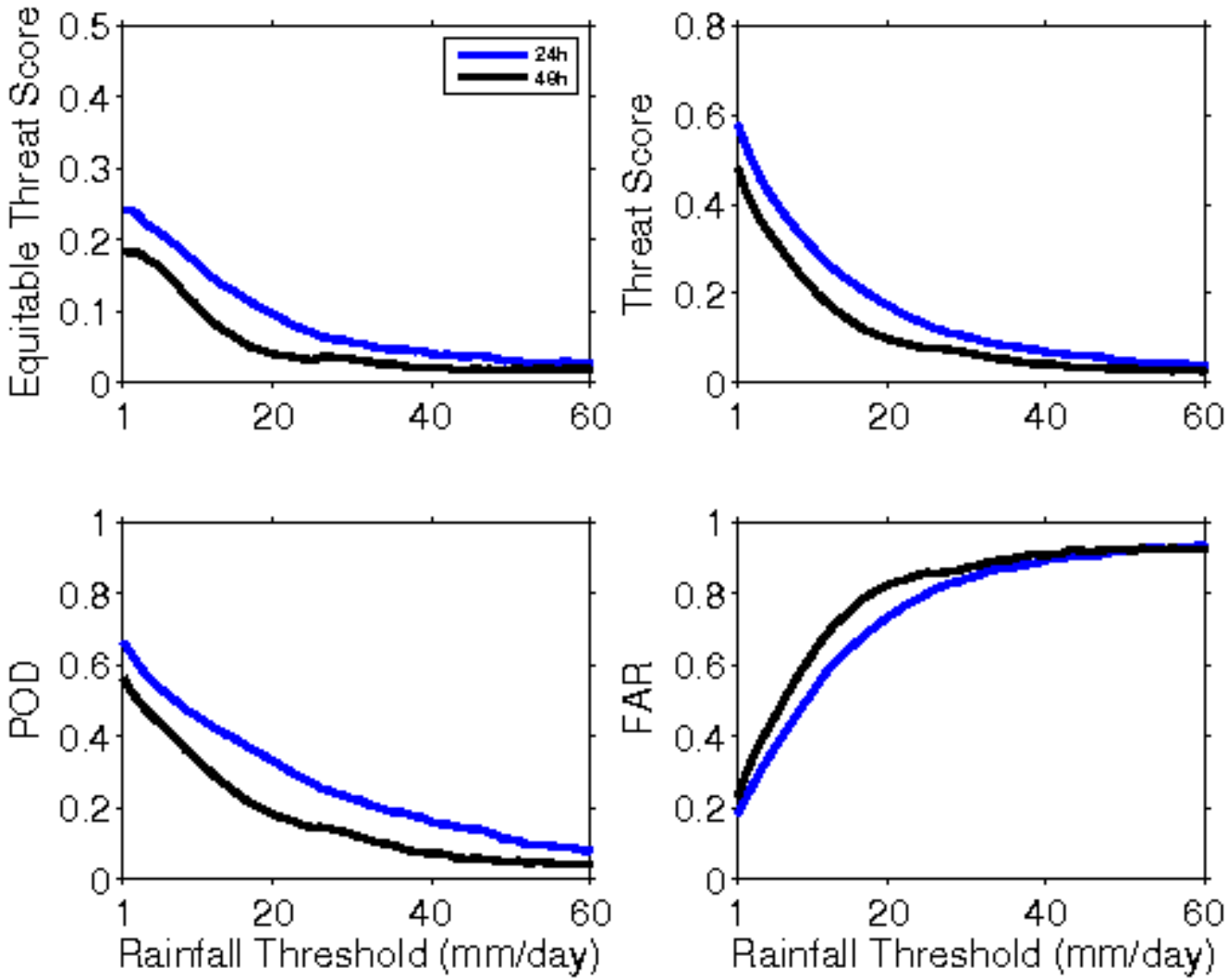
WRF Start Time
00Z 13072020
Forecast Period
03Z 14072020−03Z 15072020


Equitable Threat Score
0.5
0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
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0.6
0.4
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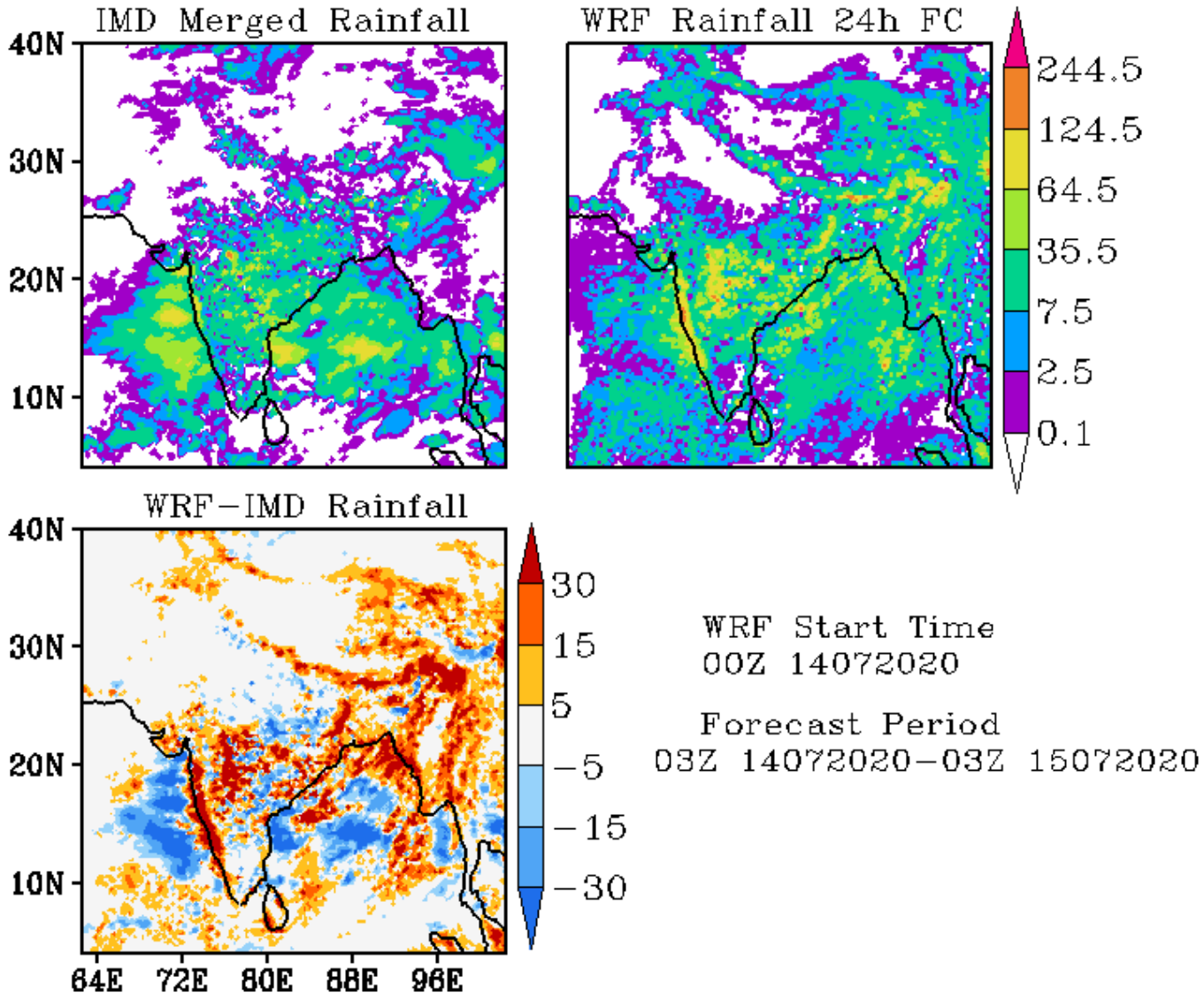
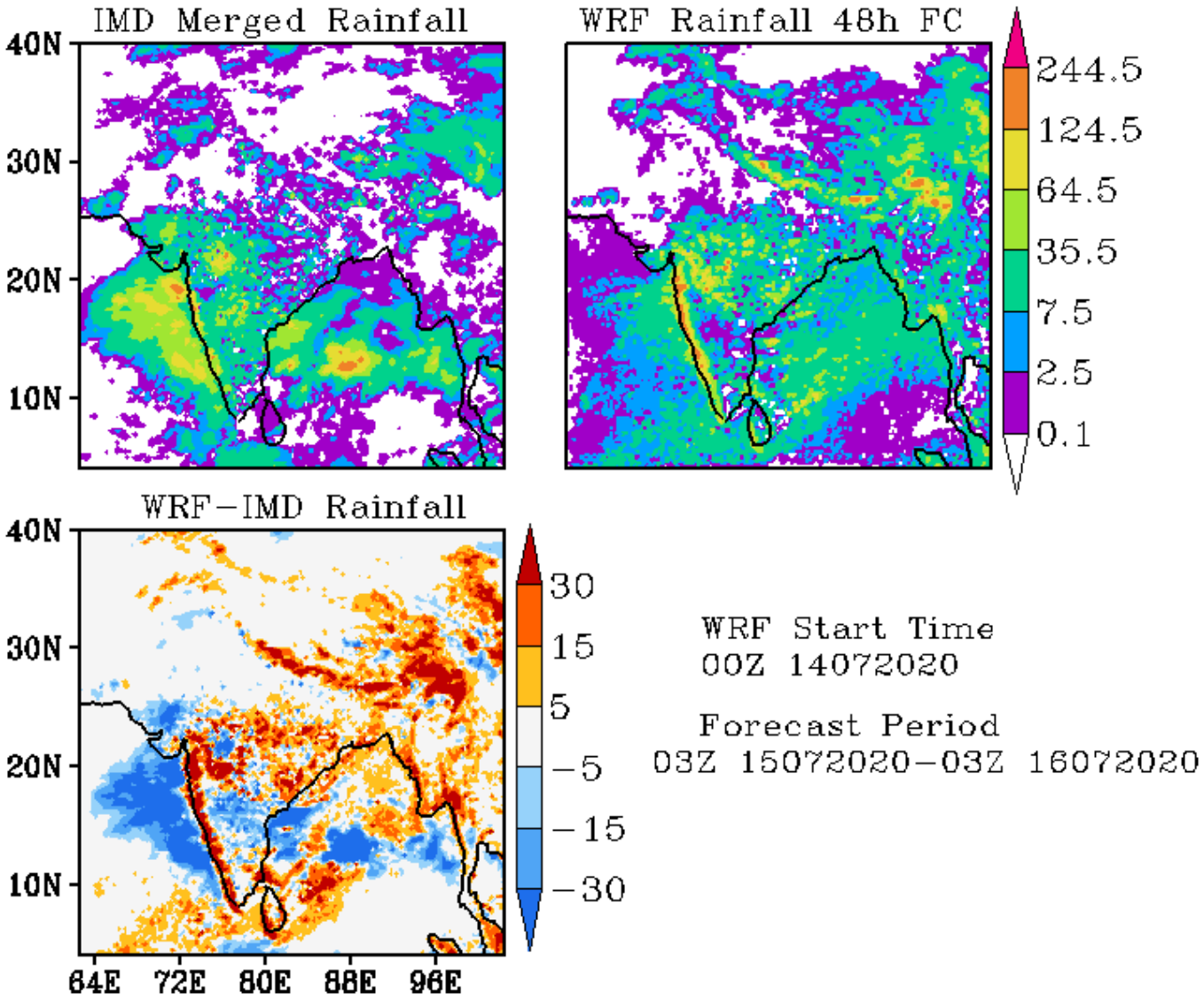
0
1
20
40
60
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
30N
20N
10N
64E
72E
80E
88E
96E
WRF Start Time
00Z 14072020
Forecast Period
03Z 14072020−03Z 15072020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WRF Rainfall 48h FC
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124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
30N
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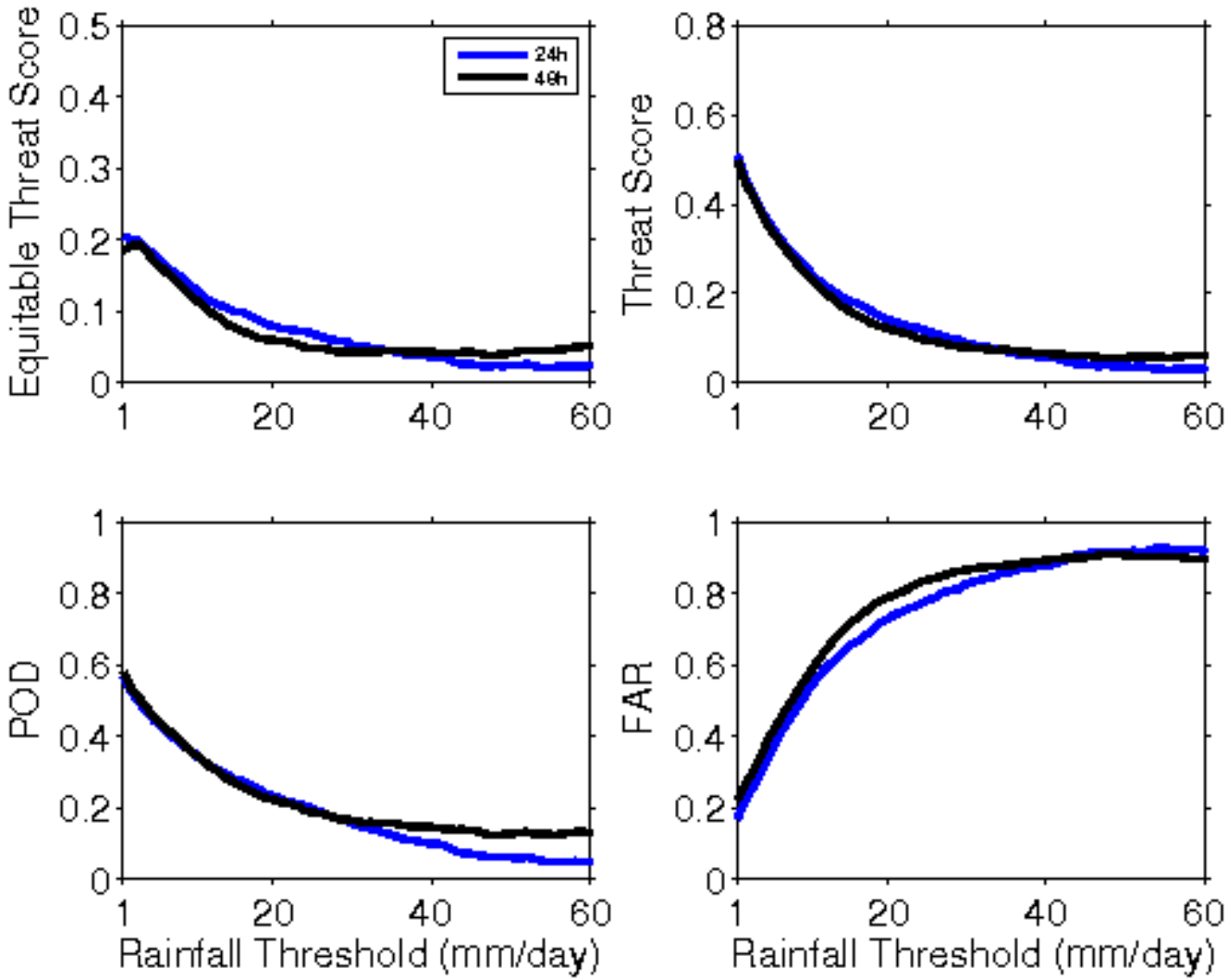
10N
64E
72E
80E
88E
96E
WRF Start Time
00Z 14072020
Forecast Period
03Z 15072020−03Z 16072020


Equitable Threat Score
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0.3
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0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
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POD
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0.6
0.4
0.2
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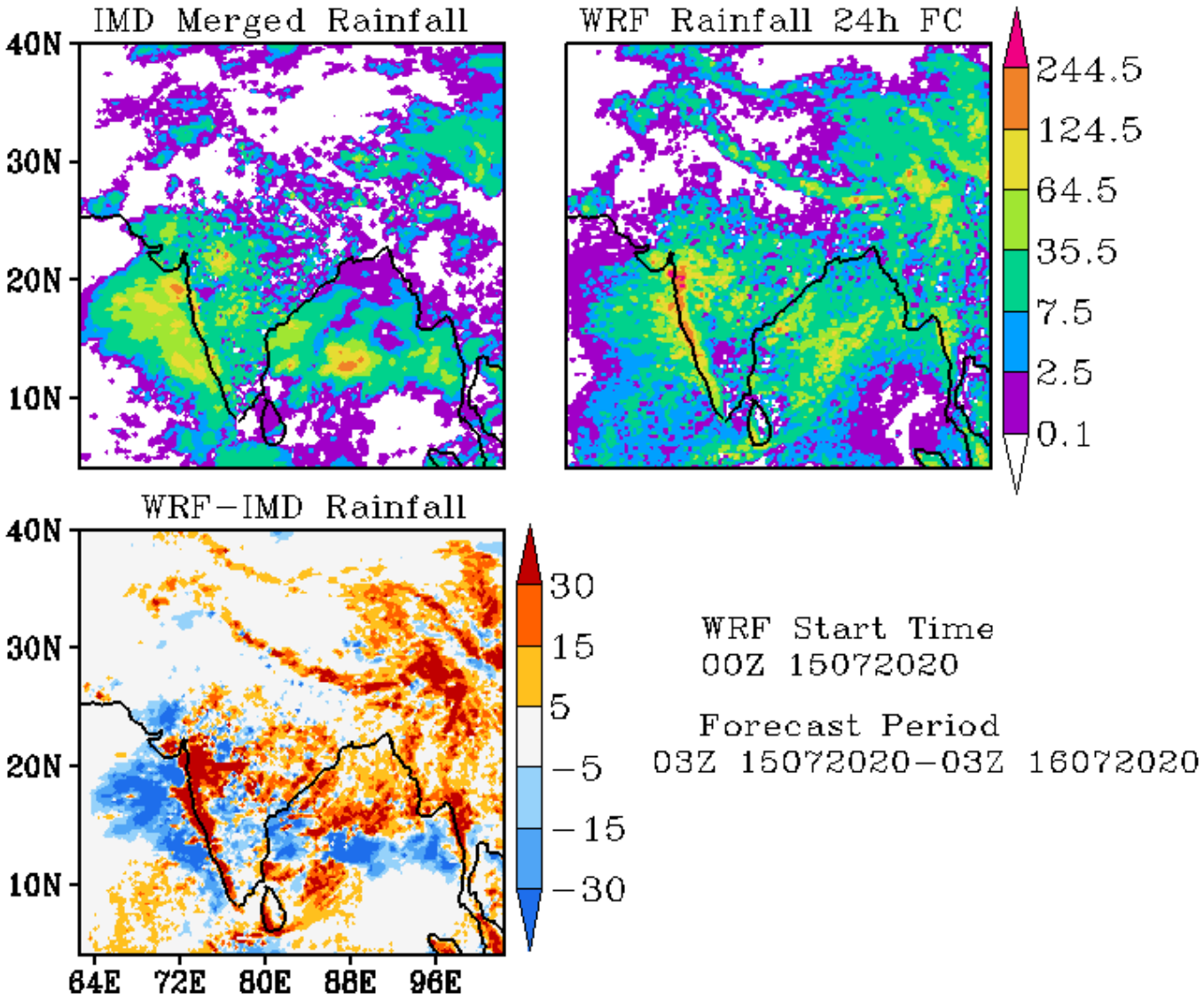
Rainfall Threshold (mm/day)
FAR
Rainfall Threshold (mm/day)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WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
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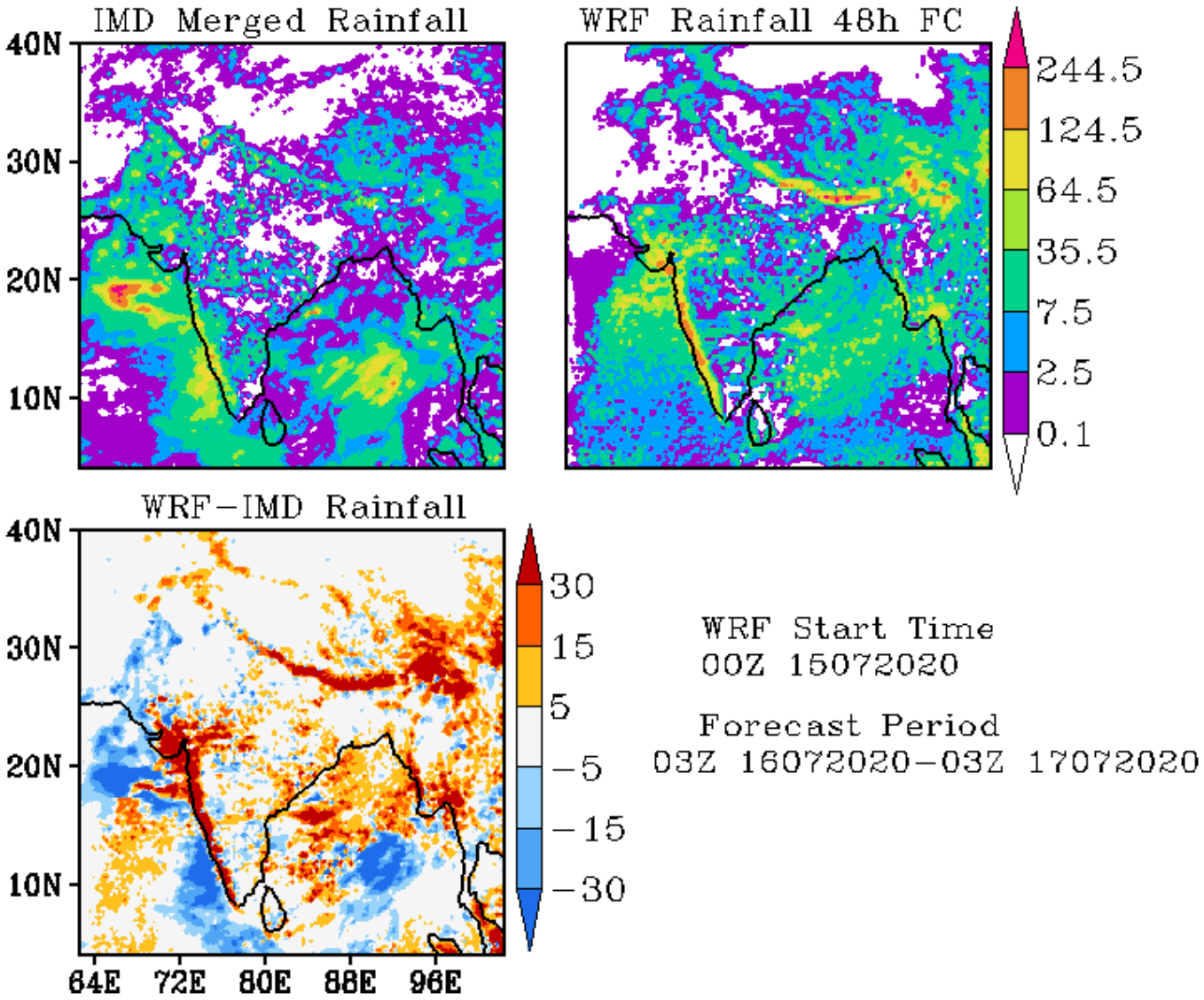
72E
80E
88E
96E
WRF Start Time
00Z 15072020
Forecast Period
03Z 15072020−03Z 16072020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WRF Rainfall 48h FC
WRF−IMD Rainfall
40N
30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
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−15
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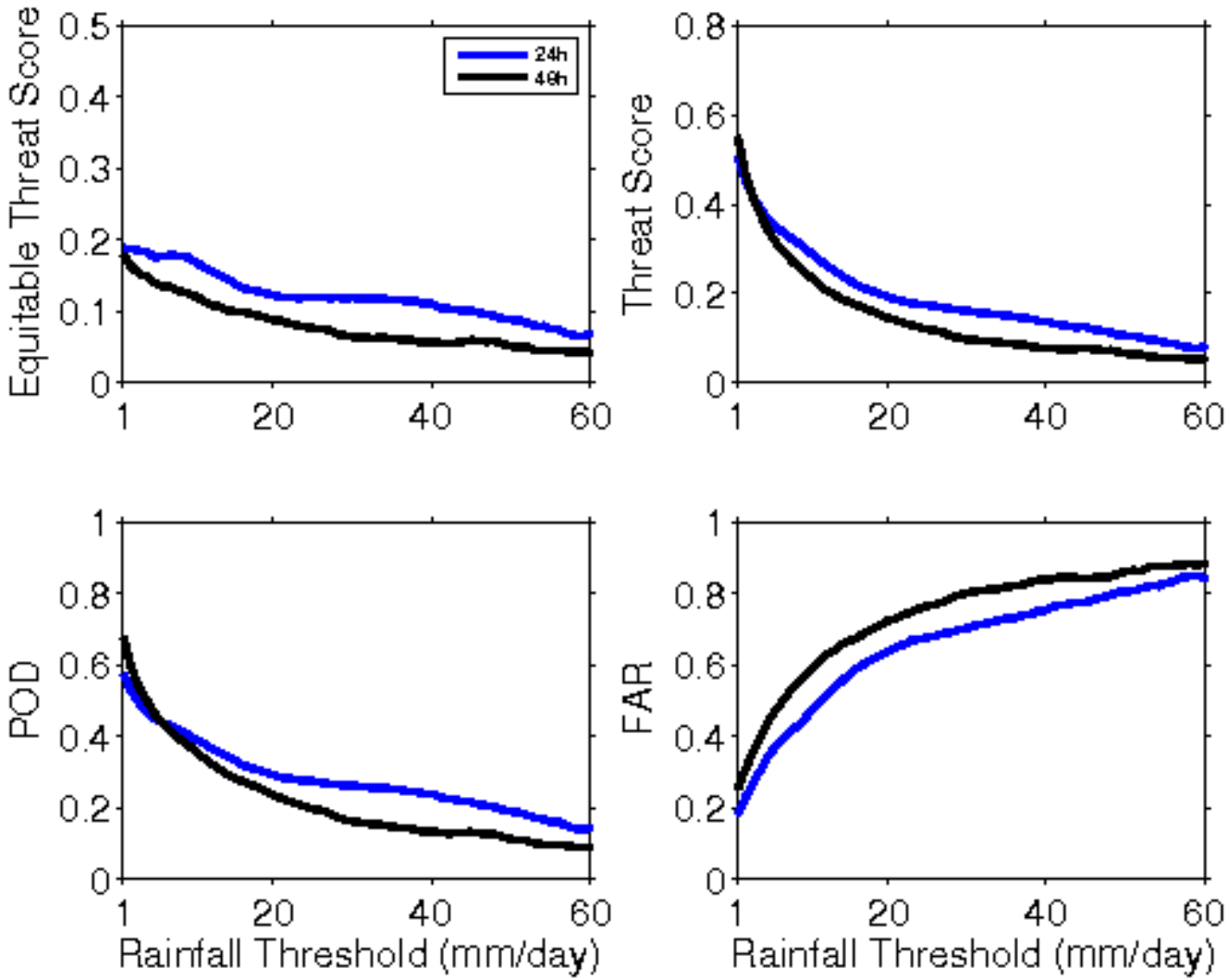
WRF Start Time
00Z 15072020
Forecast Period
03Z 16072020−03Z 17072020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48h
1
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40
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Threat Score
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0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
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0.8
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0.4
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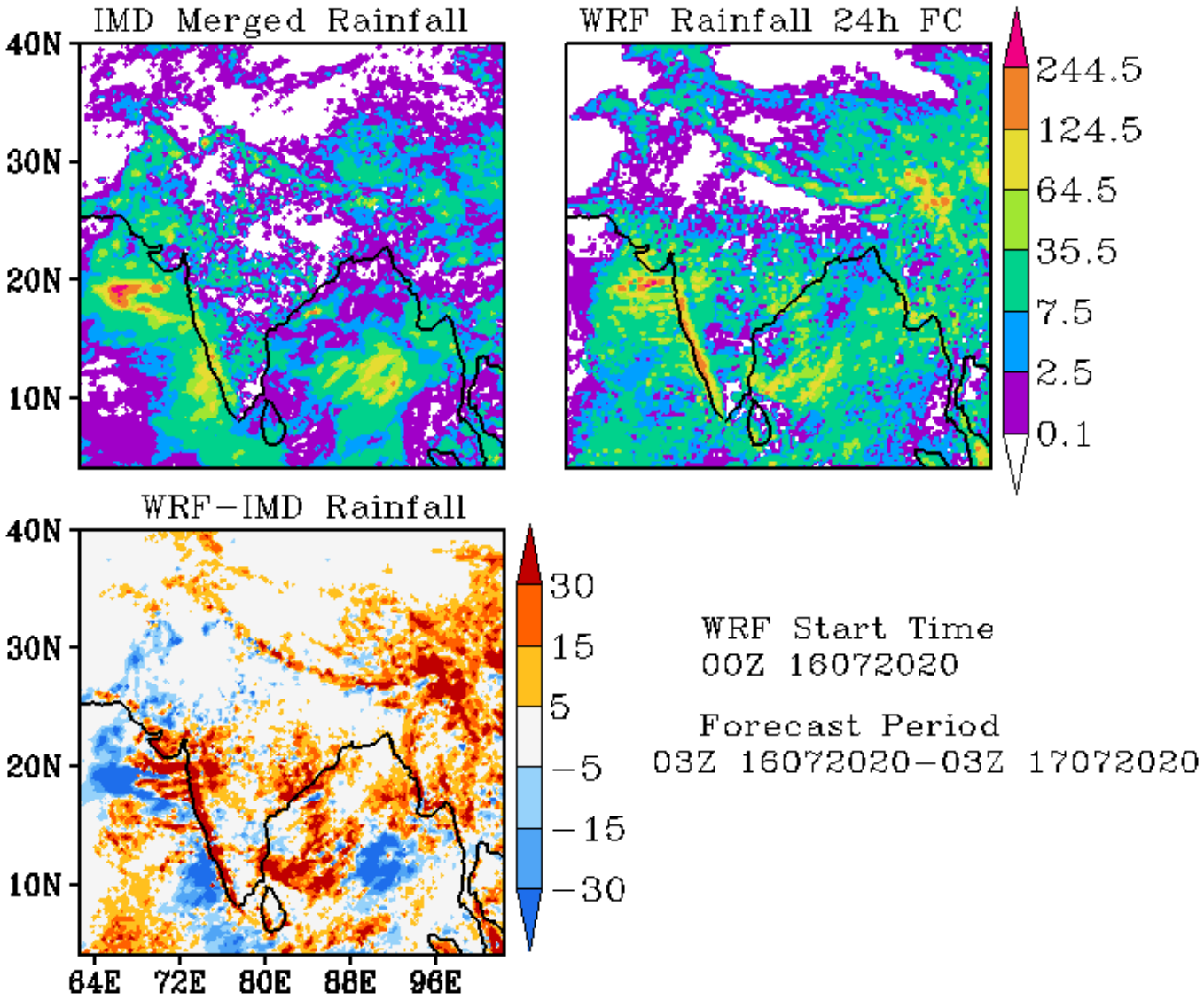
40
60
Rainfall Threshold (mm/day)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WRF Rainfall 24h FC
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124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
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−5
−15
−30
40N
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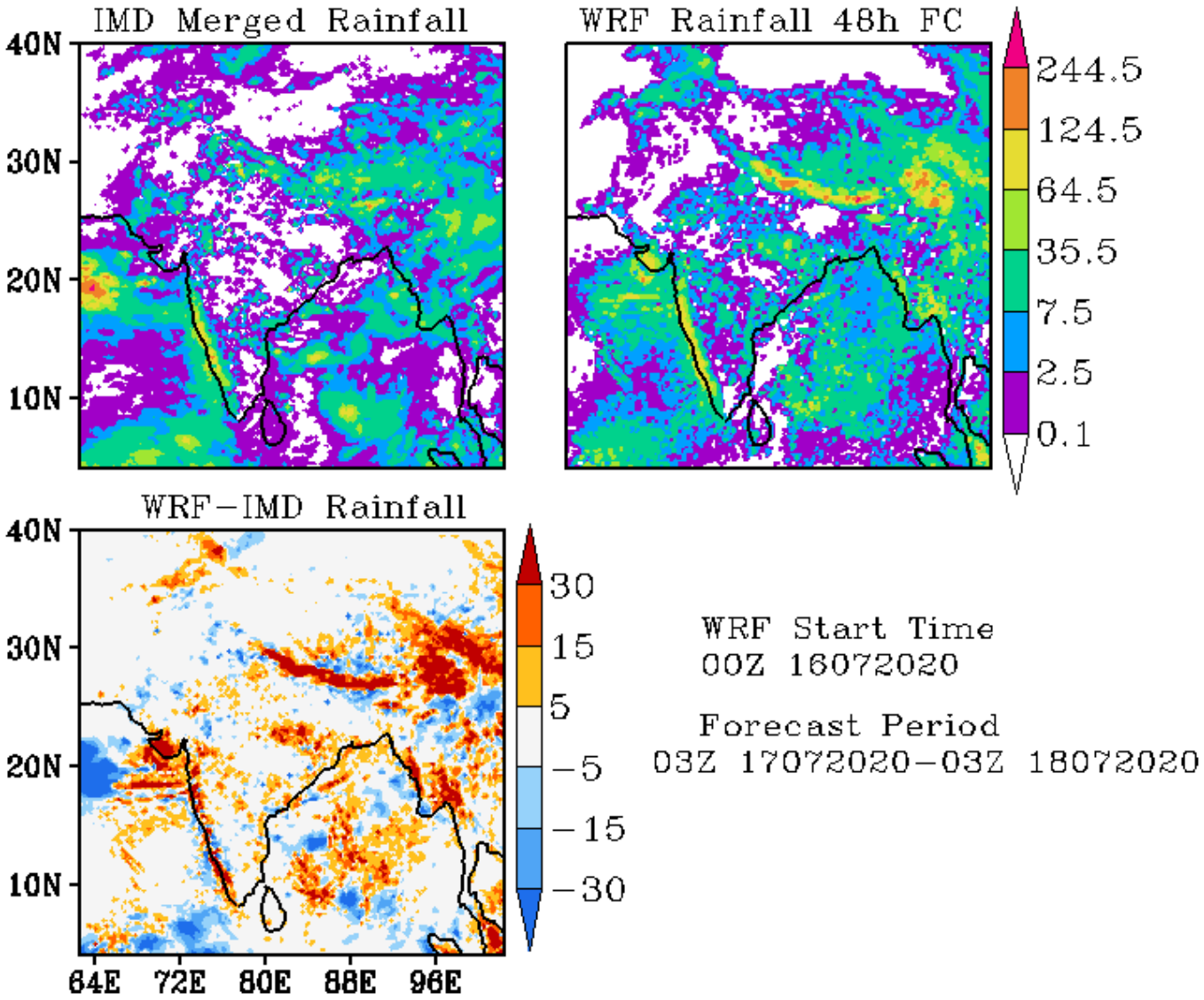
72E
80E
88E
96E
WRF Start Time
00Z 16072020
Forecast Period
03Z 16072020−03Z 17072020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WRF Rainfall 48h FC
WRF−IMD Rainfall
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30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
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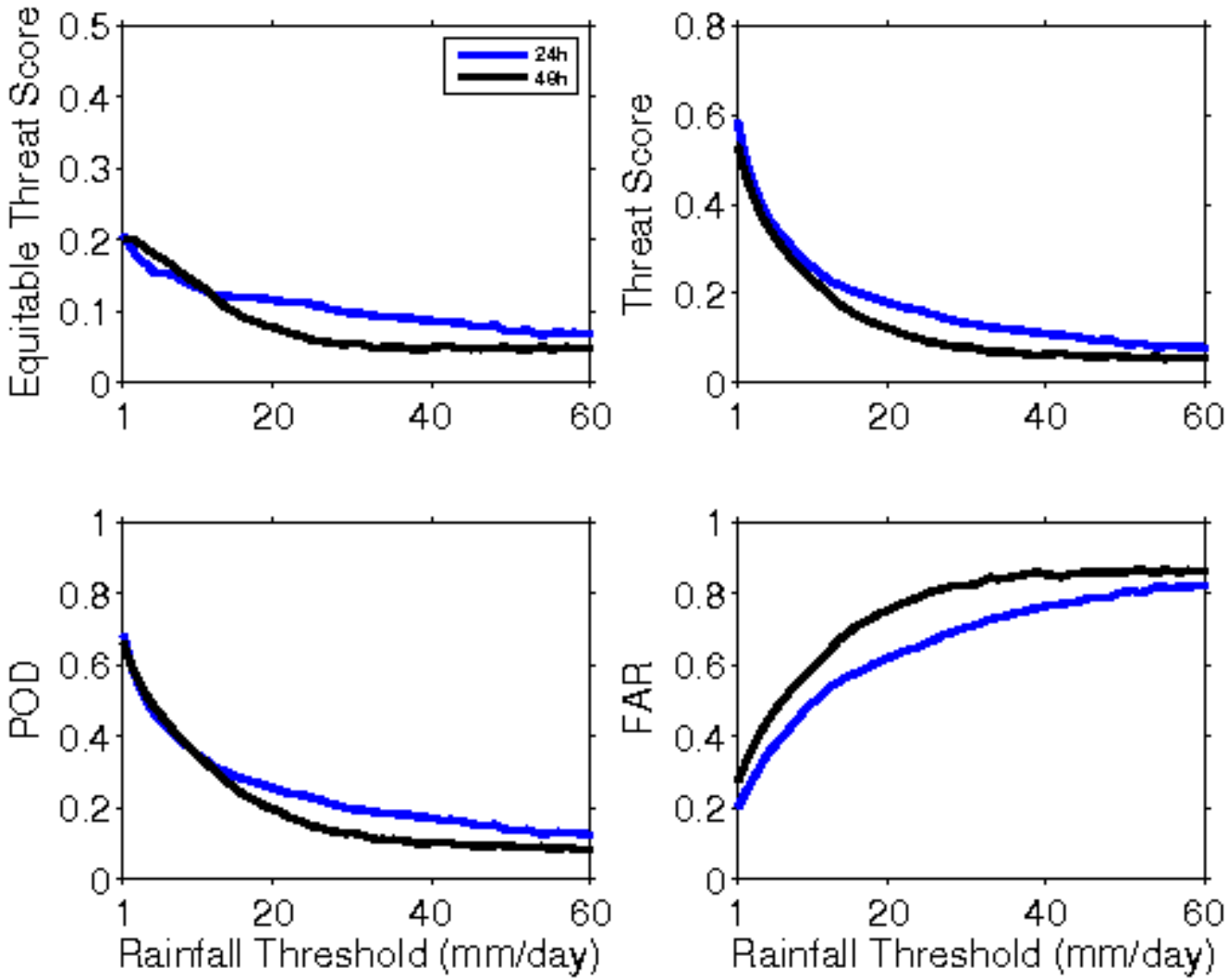
WRF Start Time
00Z 16072020
Forecast Period
03Z 17072020−03Z 18072020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0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
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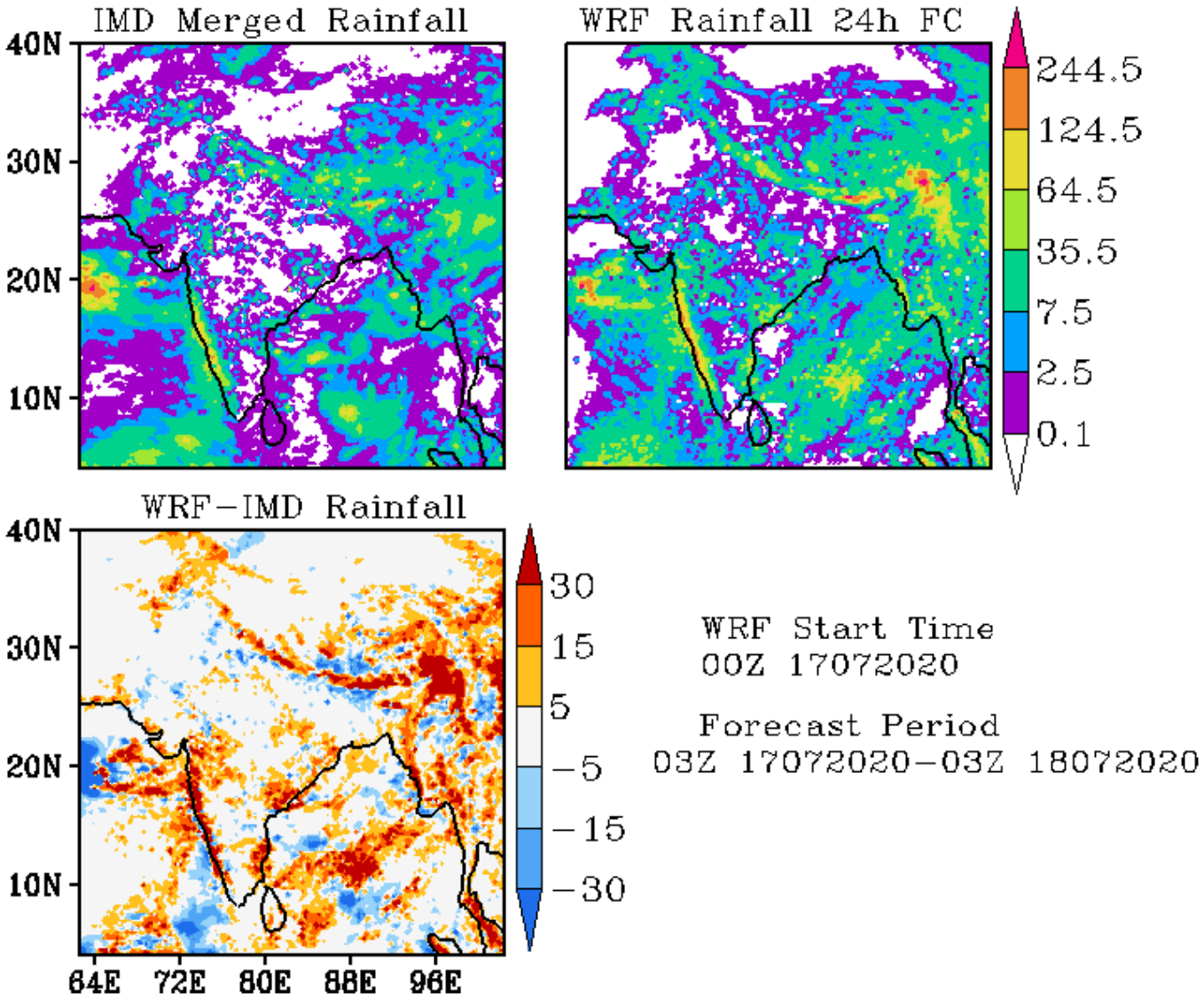
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)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WRF Rainfall 24h FC
WRF−IMD Rainfall
40N
30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
2.5
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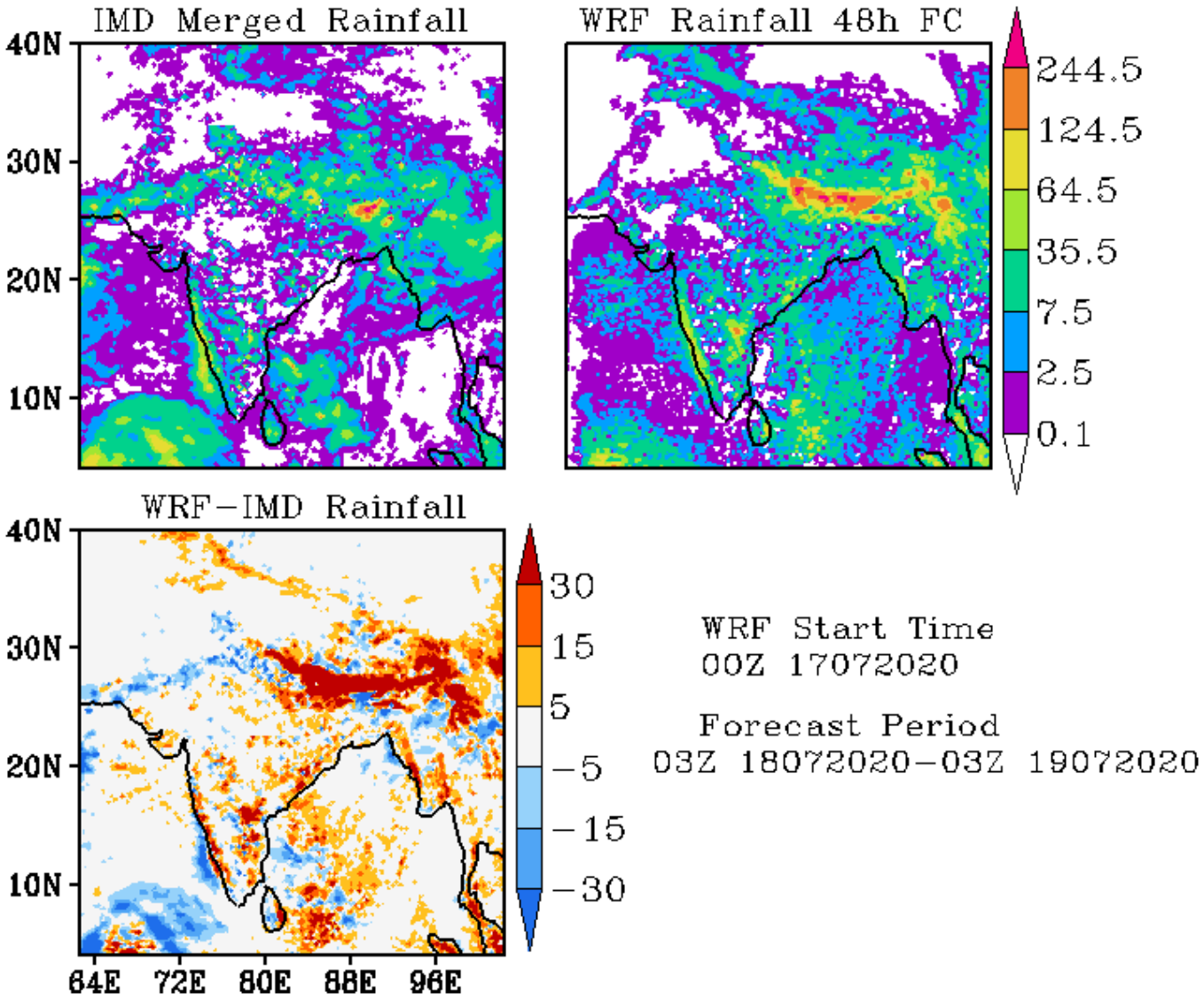
WRF Start Time
00Z 17072020
Forecast Period
03Z 17072020−03Z 18072020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WRF Rainfall 48h FC
WRF−IMD Rainfall
40N
30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
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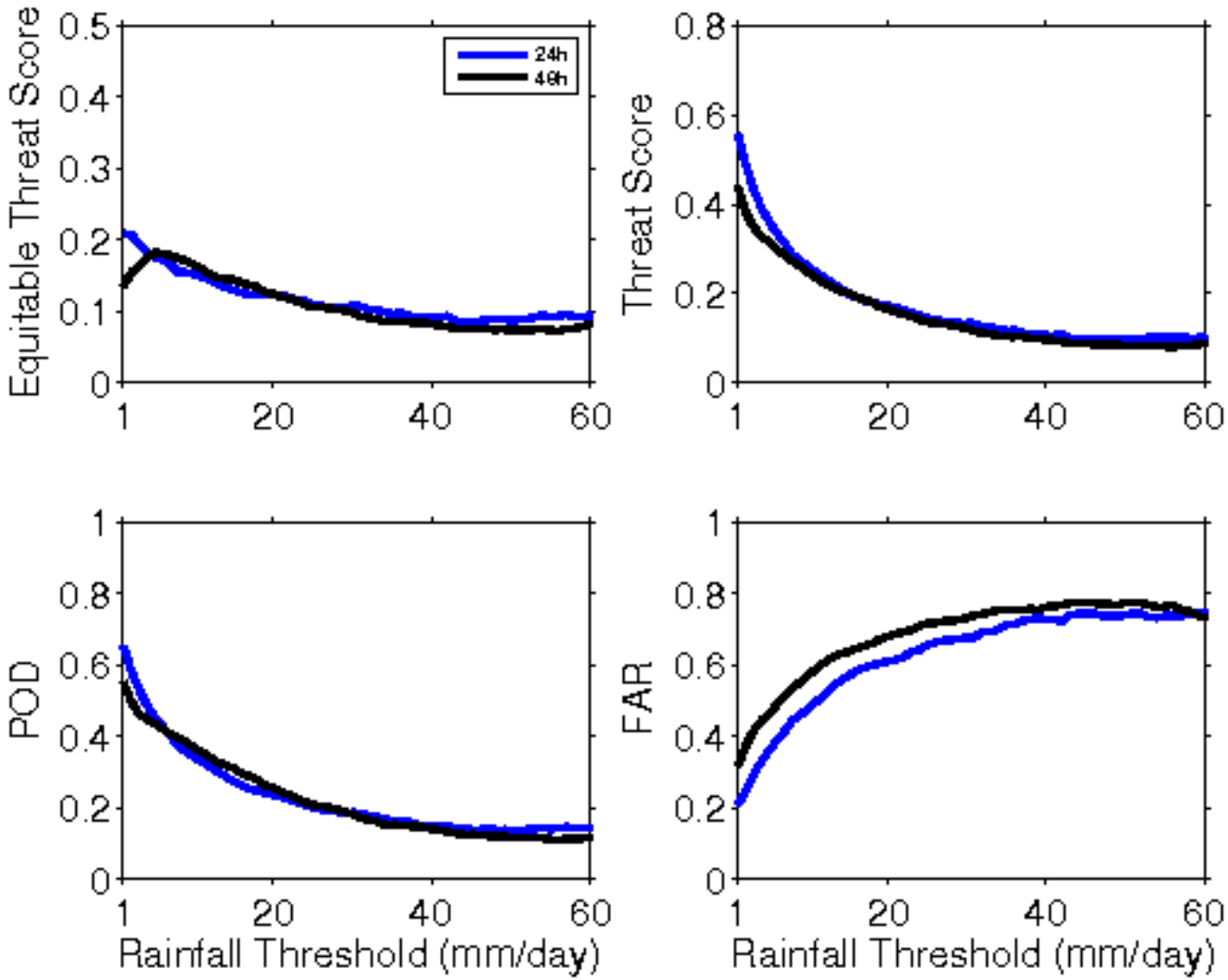
WRF Start Time
00Z 17072020
Forecast Period
03Z 18072020−03Z 19072020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0.3
0.2
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0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
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0.4
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40
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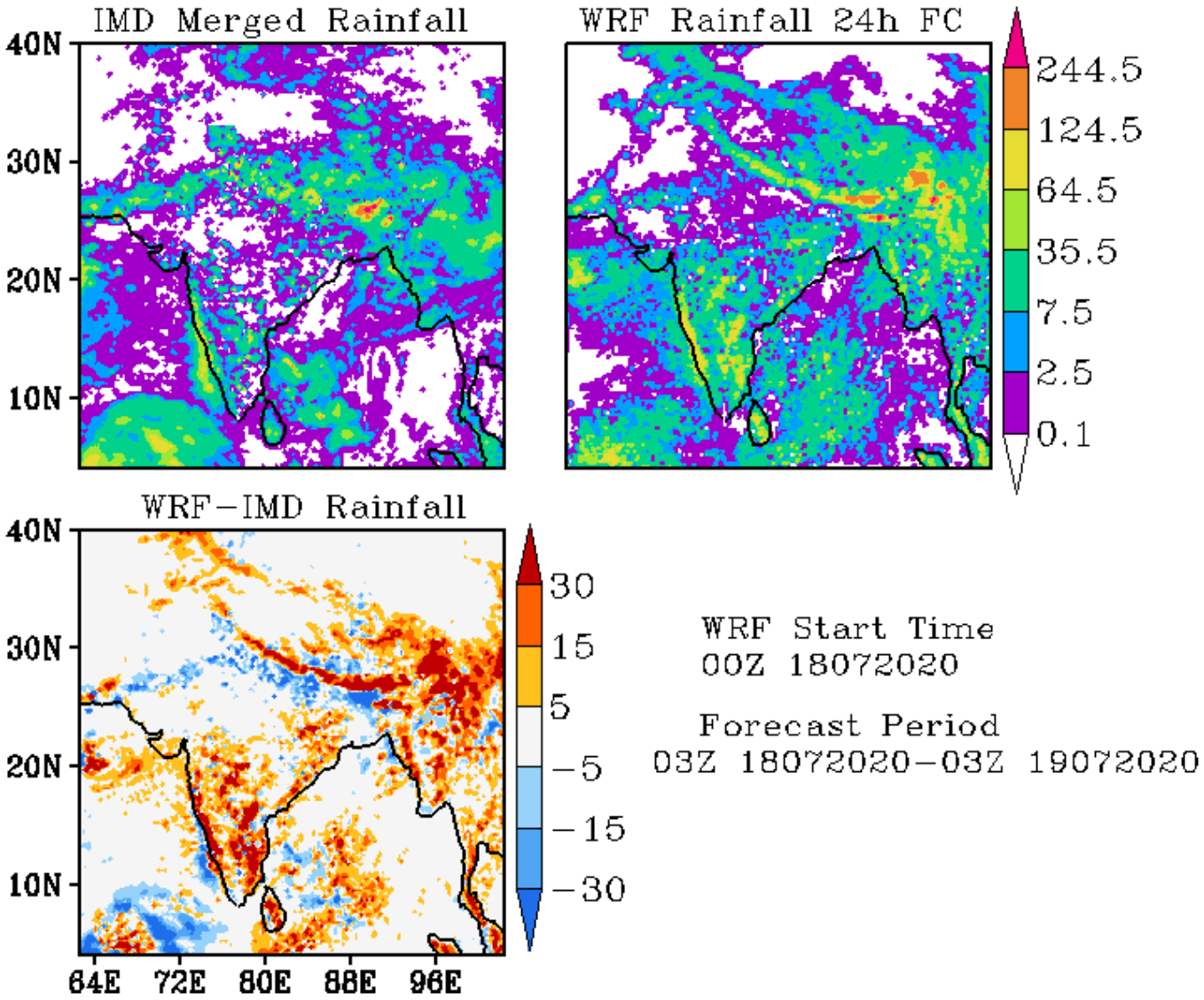
Rainfall Threshold (mm/day)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WRF Rainfall 24h FC
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7.5
2.5
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WRF−IMD Rainfall
30
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−5
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−30
40N
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80E
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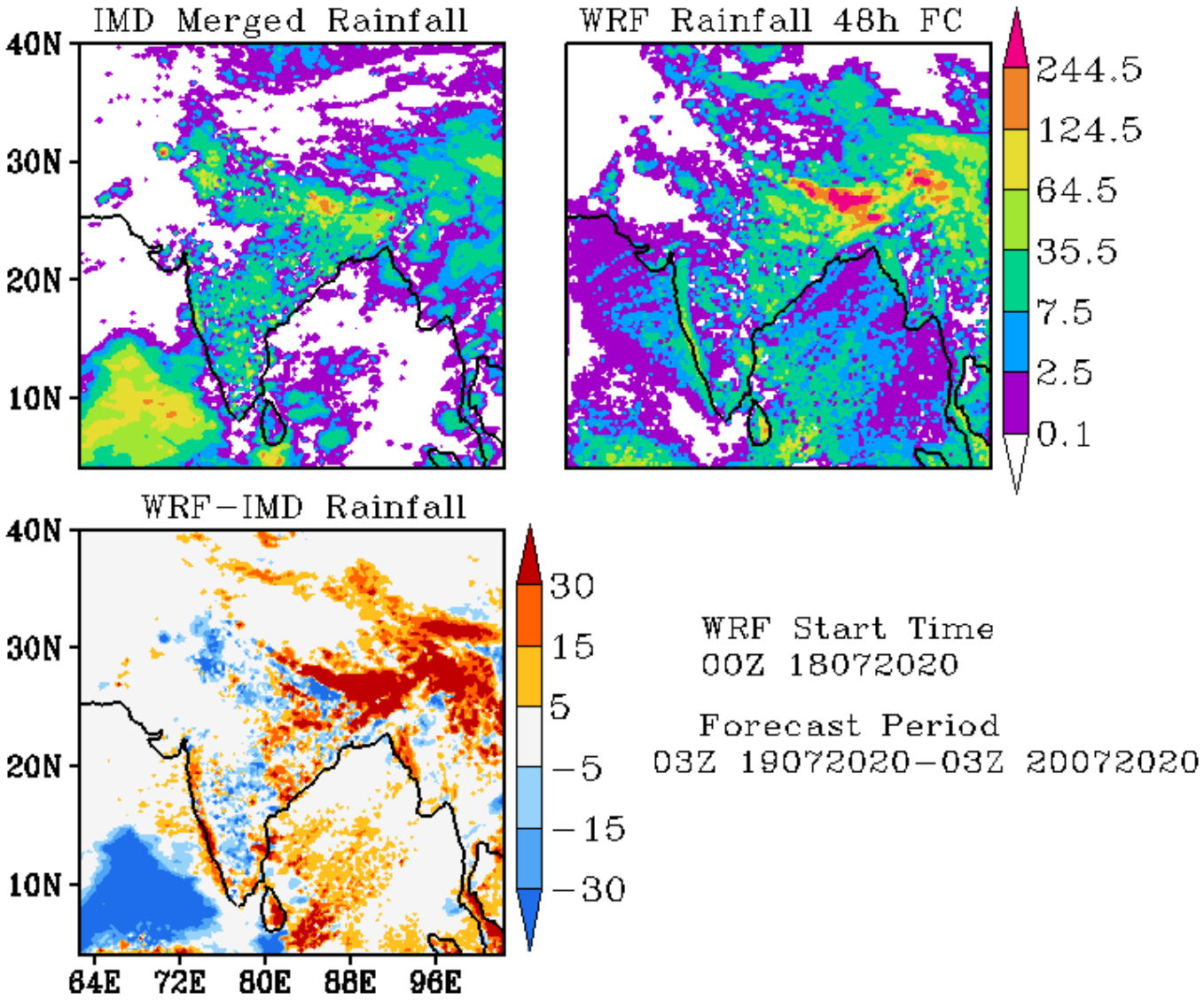
96E
WRF Start Time
00Z 18072020
Forecast Period
03Z 18072020−03Z 19072020


IMD Merged Rainfall
WRF Rainfall 48h FC
WRF−IMD Rainfall
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30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
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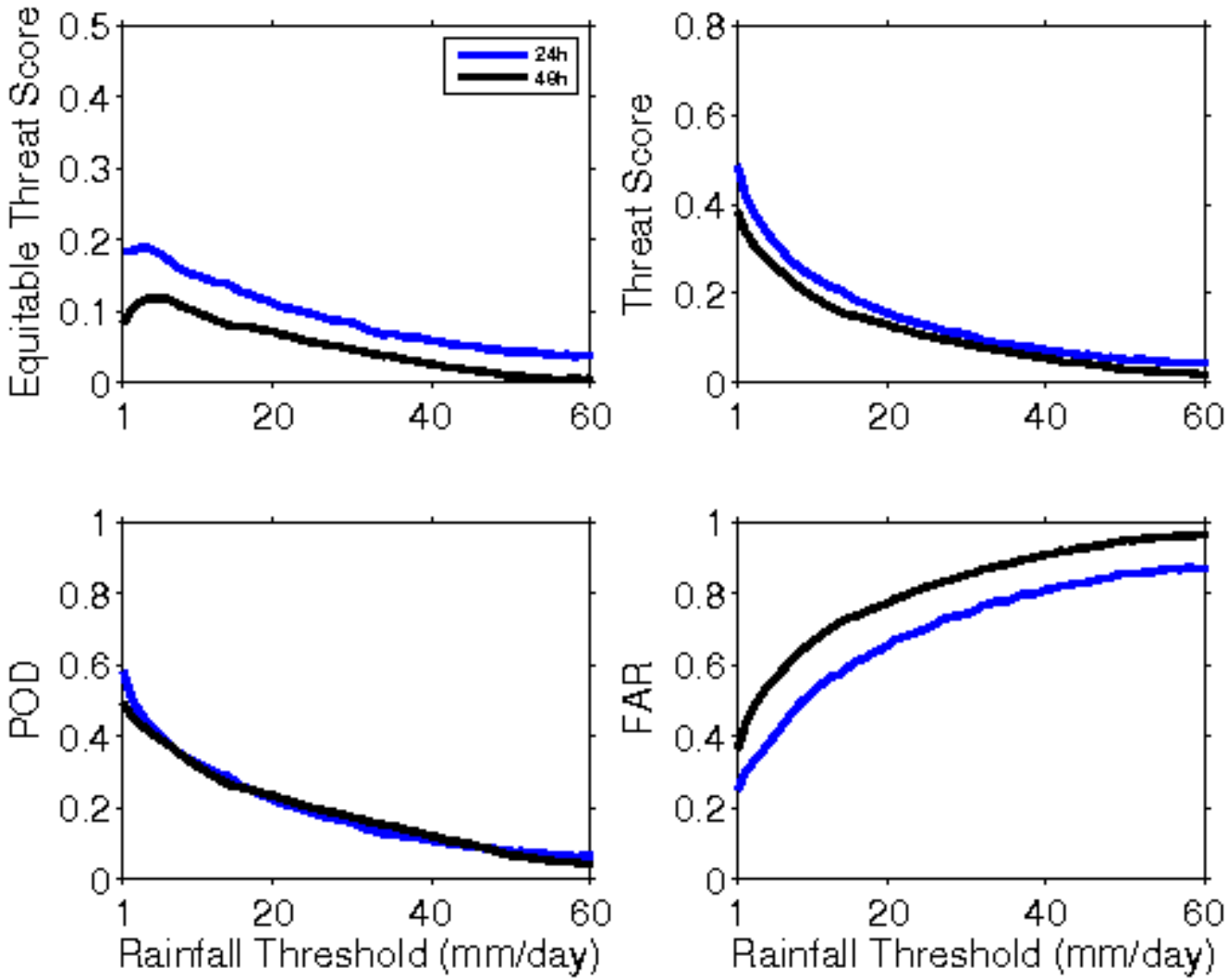
−15
−30
WRF Start Time
00Z 18072020
Forecast Period
03Z 19072020−03Z 20072020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24h
48h
1
20
40
60
Threat Score
0.8
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0.4
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1
20
40
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POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
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0.4
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1
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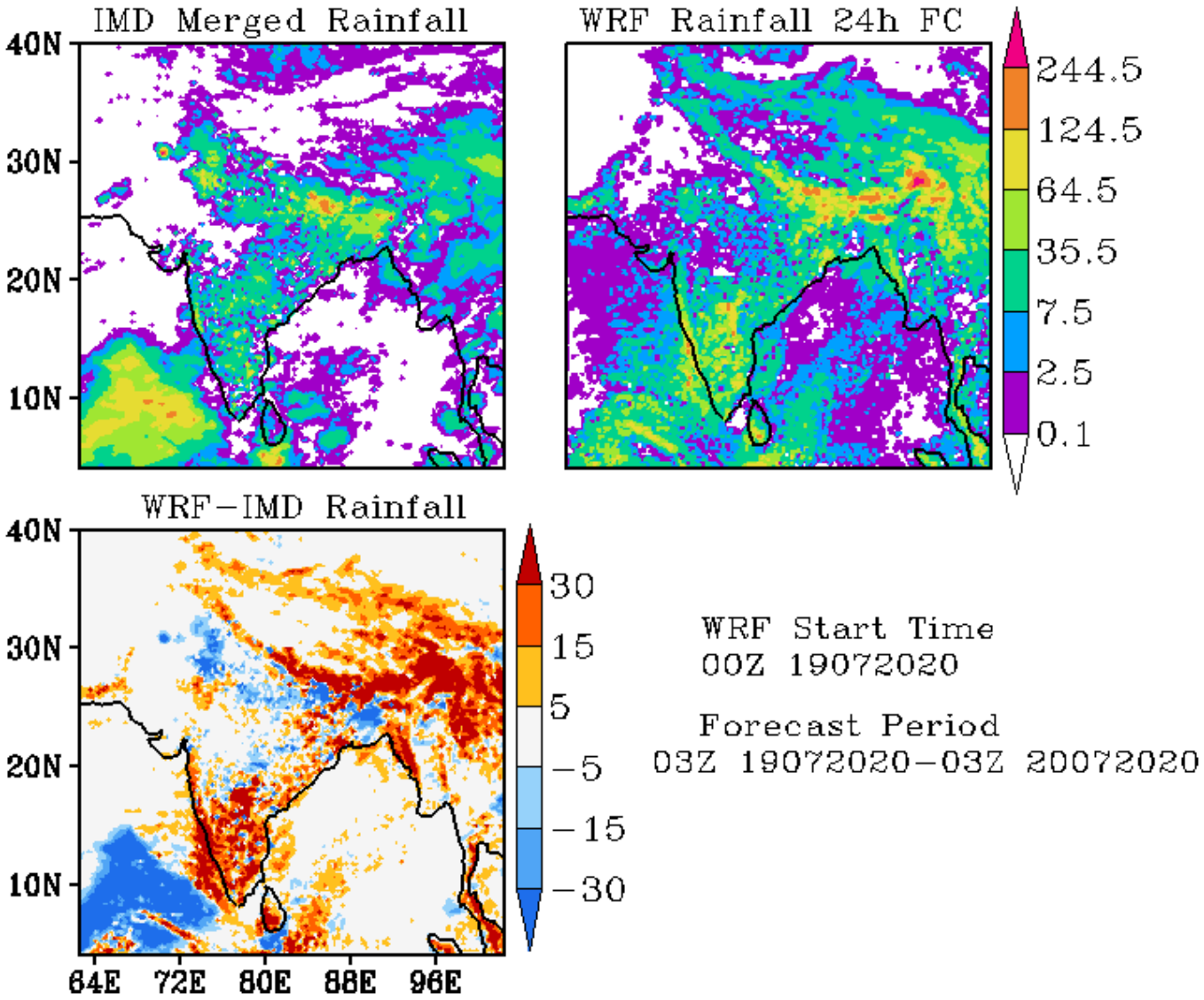
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
244.5
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64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
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40N
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72E
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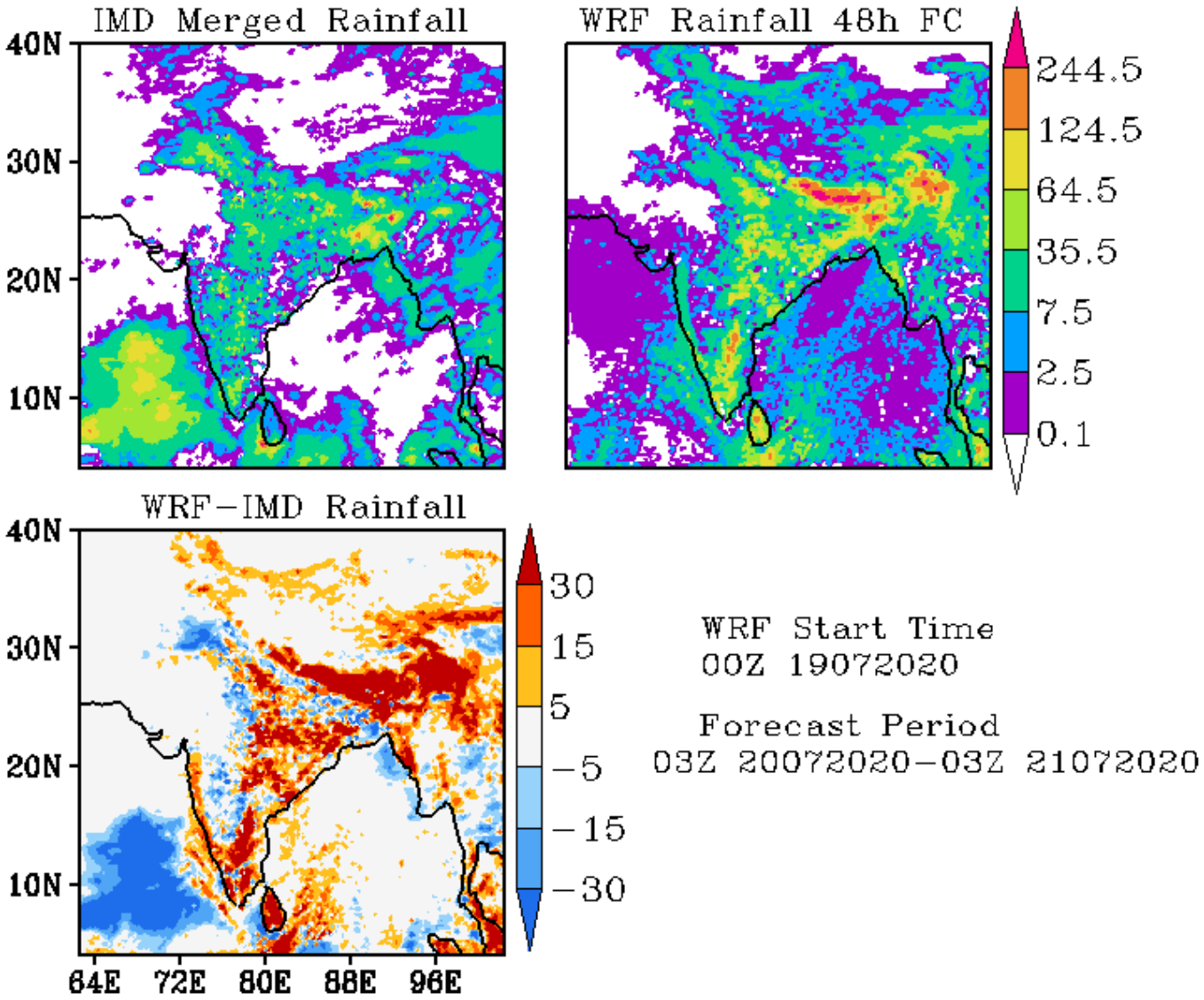
88E
96E
WRF Start Time
00Z 19072020
Forecast Period
03Z 19072020−03Z 20072020


IMD Merged Rainfall
WRF Rainfall 48h FC
WRF−IMD Rainfall
40N
30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
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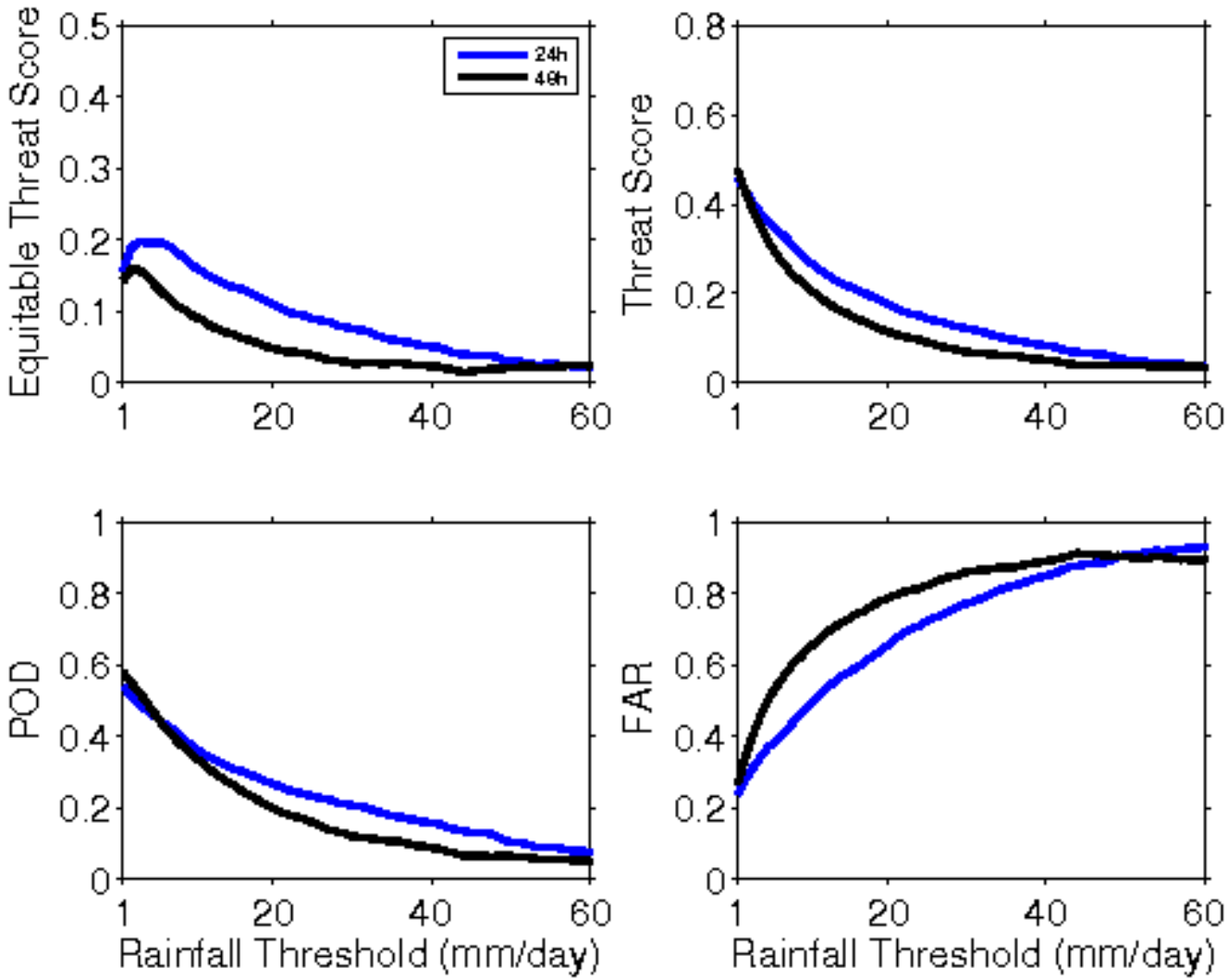
WRF Start Time
00Z 19072020
Forecast Period
03Z 20072020−03Z 21072020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48h
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40
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Threat Score
0.8
0.6
0.4
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20
40
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POD
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0.8
0.6
0.4
0.2
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40
60
Rainfall Threshold (mm/day)
FAR
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1
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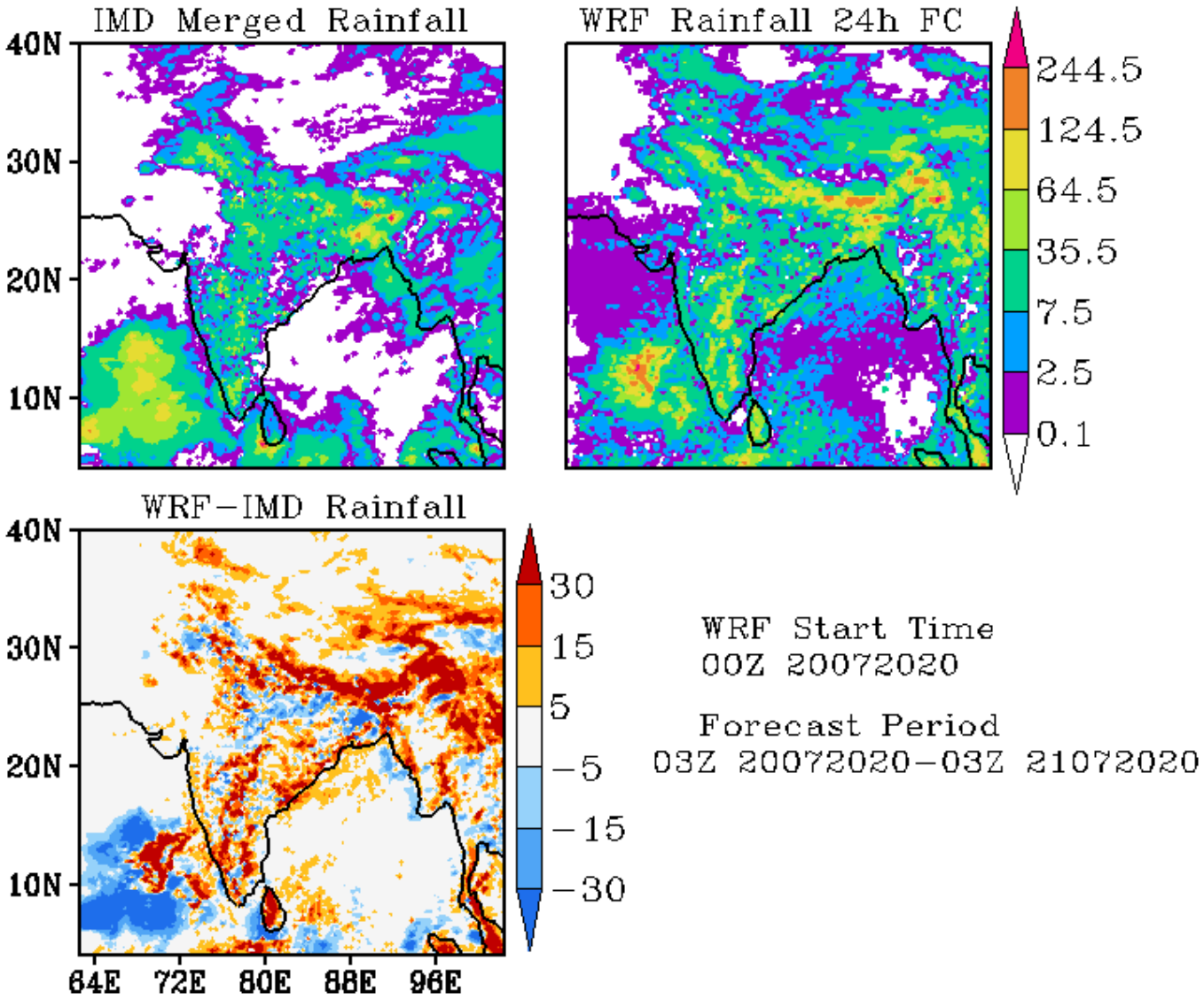
Rainfall Threshold (mm/day)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WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
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40N
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72E
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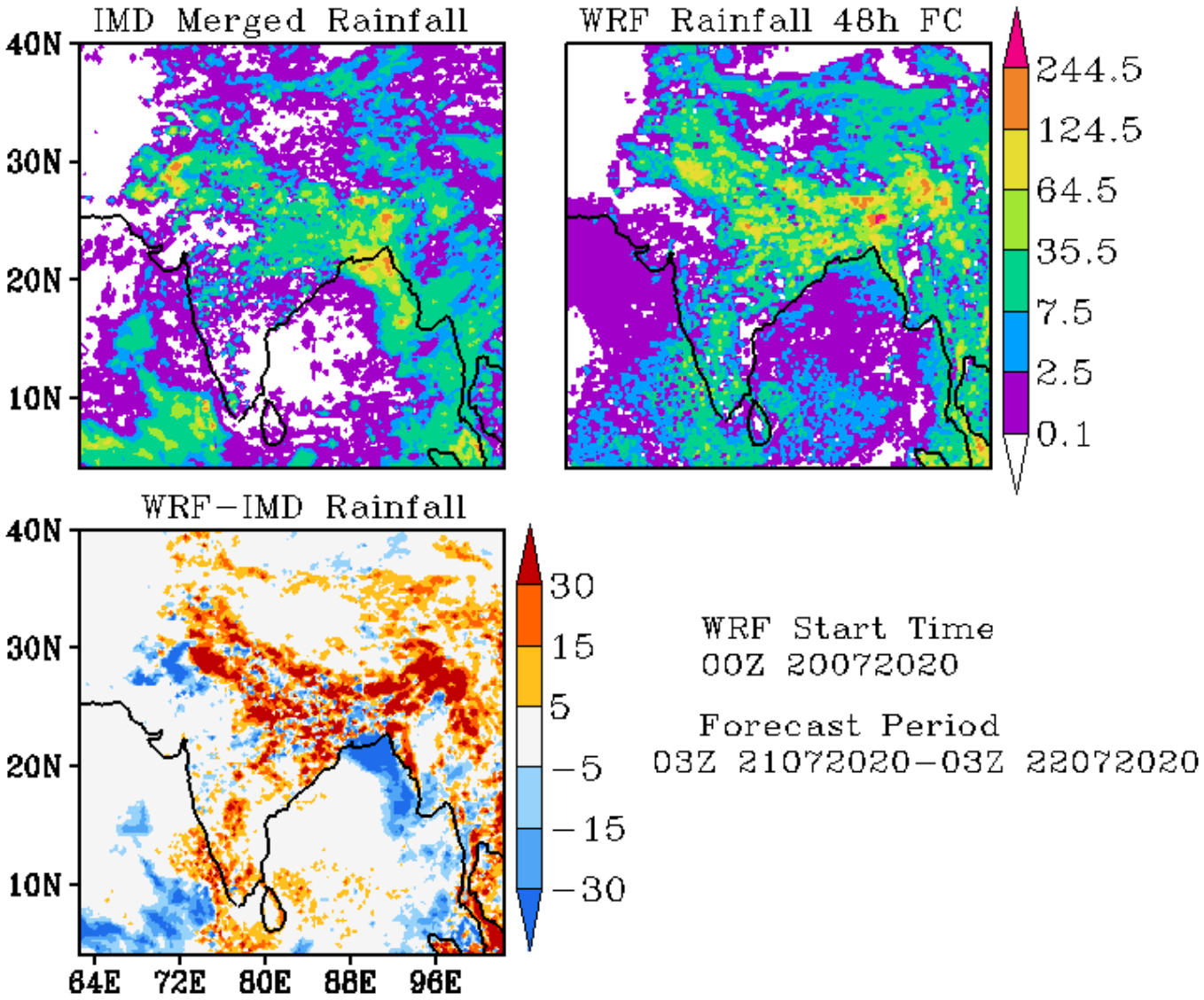
88E
96E
WRF Start Time
00Z 20072020
Forecast Period
03Z 20072020−03Z 21072020


IMD Merged Rainfall
WRF Rainfall 48h FC
244.5
124.5
64.5
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7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
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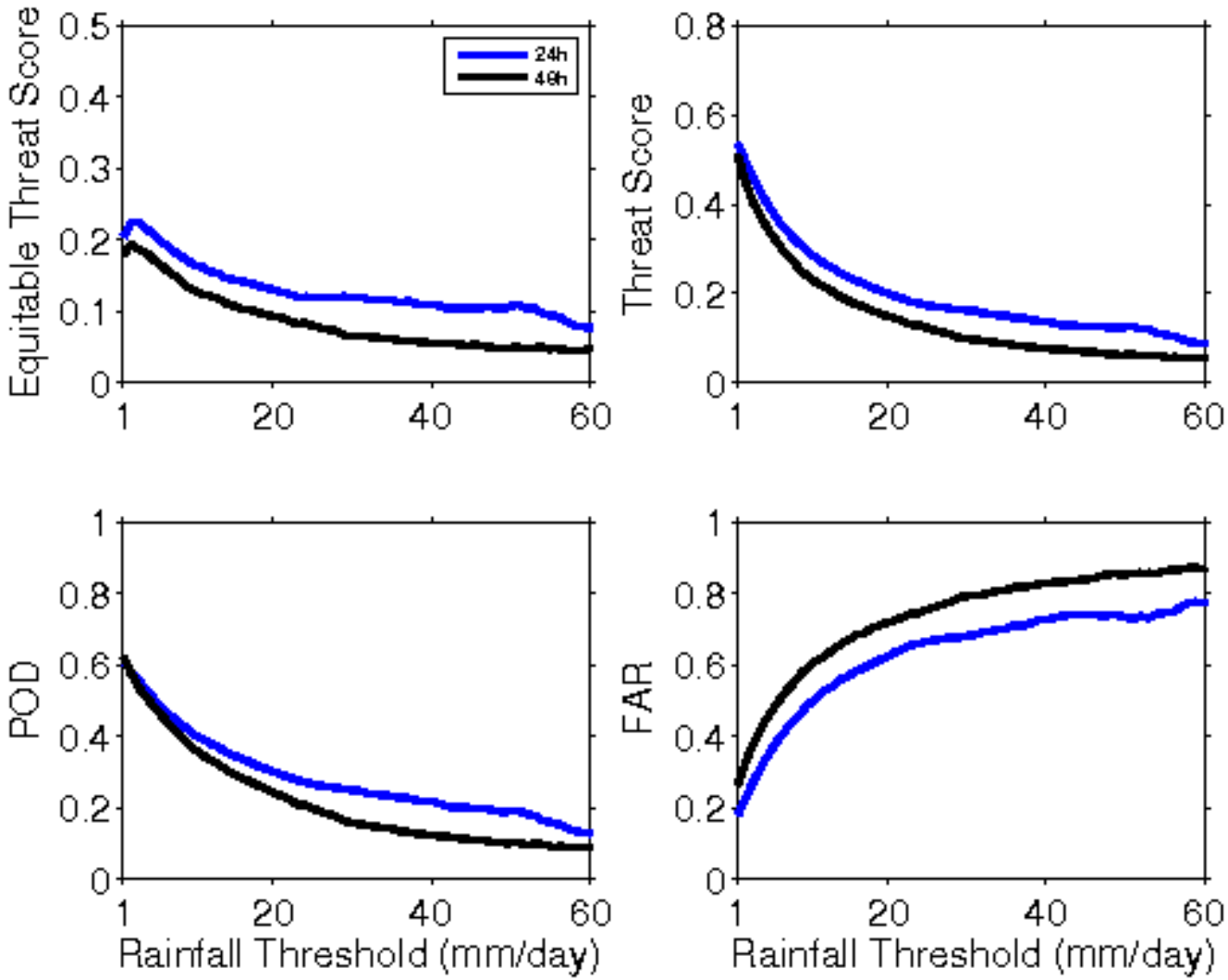
64E
72E
80E
88E
96E
WRF Start Time
00Z 20072020
Forecast Period
03Z 21072020−03Z 22072020


Equitable Threat Score
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24h
48h
1
20
40
60
Threat Score
0.8
0.6
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POD
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20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
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0.4
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1
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40
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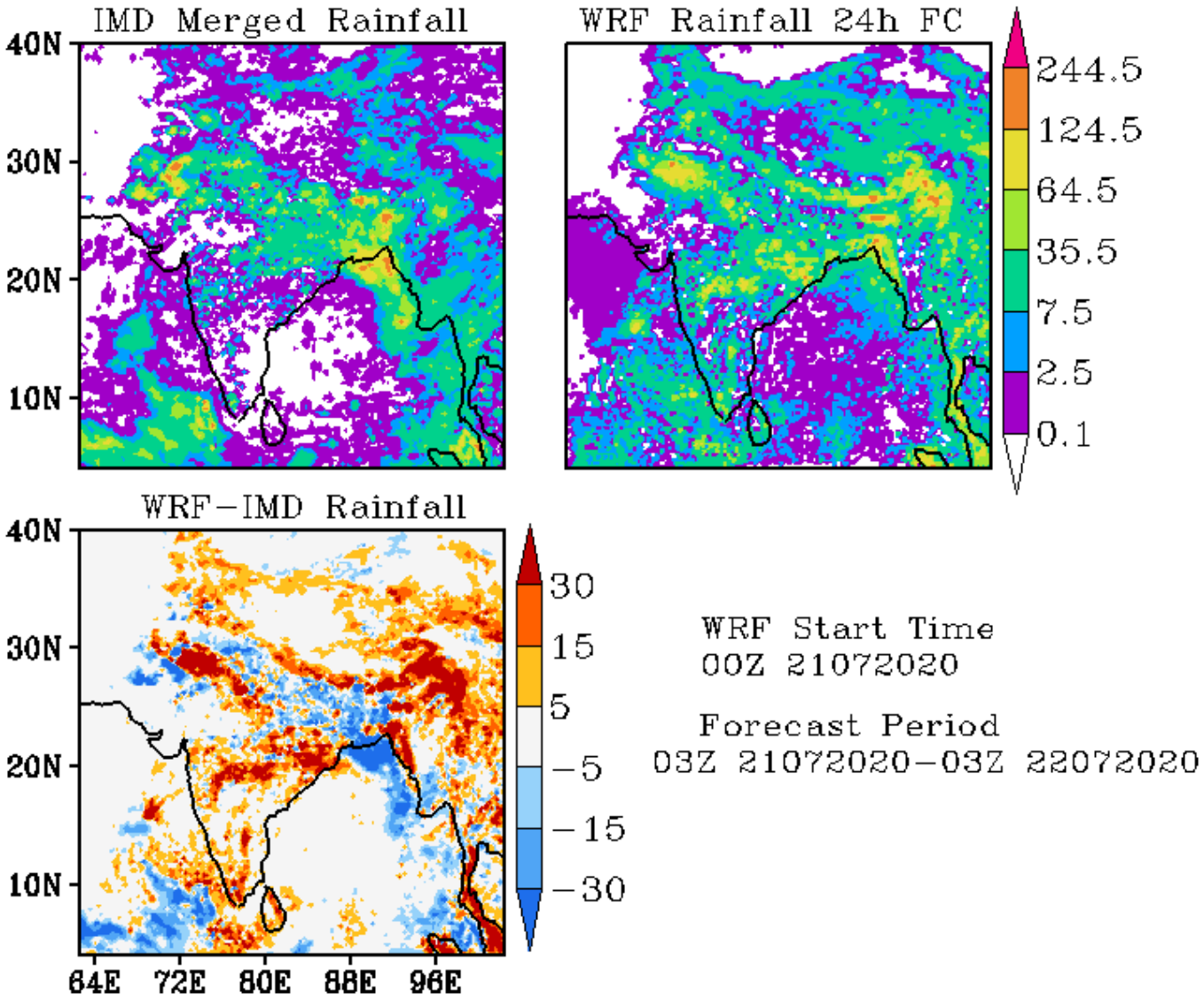
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
WRF−IMD Rainfall
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30N
20N
10N
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72E
80E
88E
96E
244.5
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64.5
35.5
7.5
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WRF Start Time
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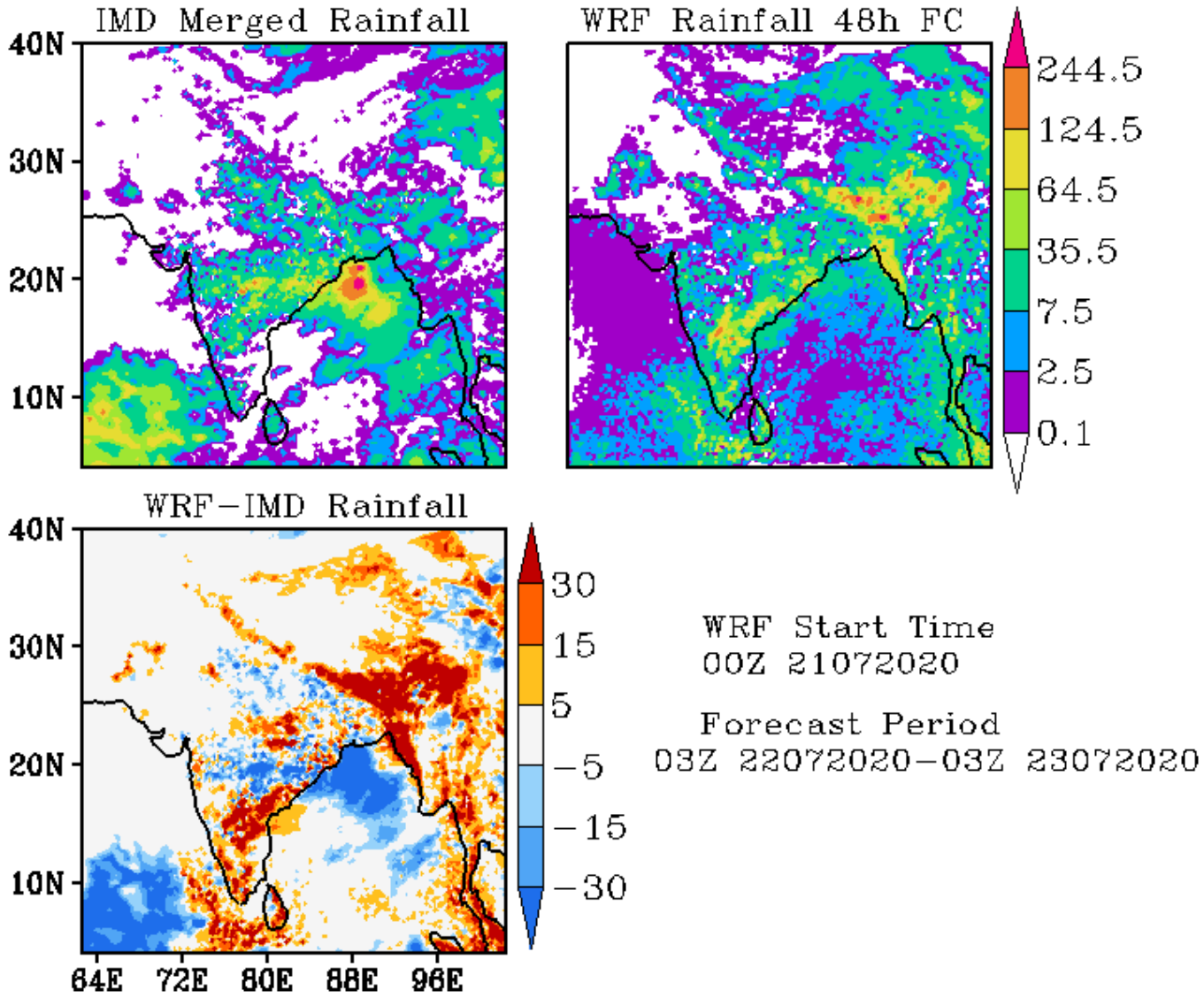
Forecast Period
03Z 21072020−03Z 22072020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WRF Rainfall 48h FC
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64.5
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7.5
2.5
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WRF−IMD Rainfall
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40N
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WRF Start Time
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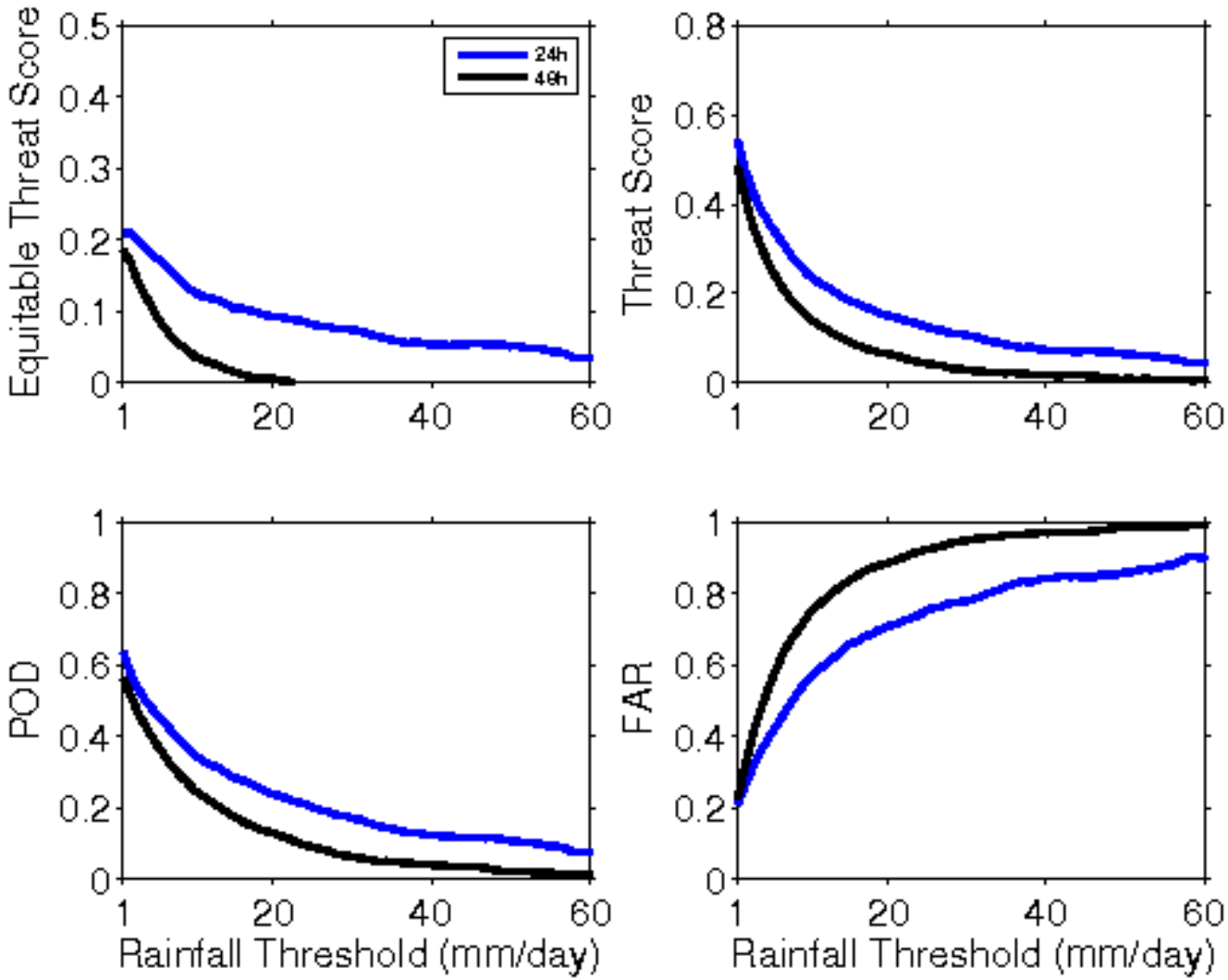
Forecast Period
03Z 22072020−03Z 23072020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24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
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POD
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0.4
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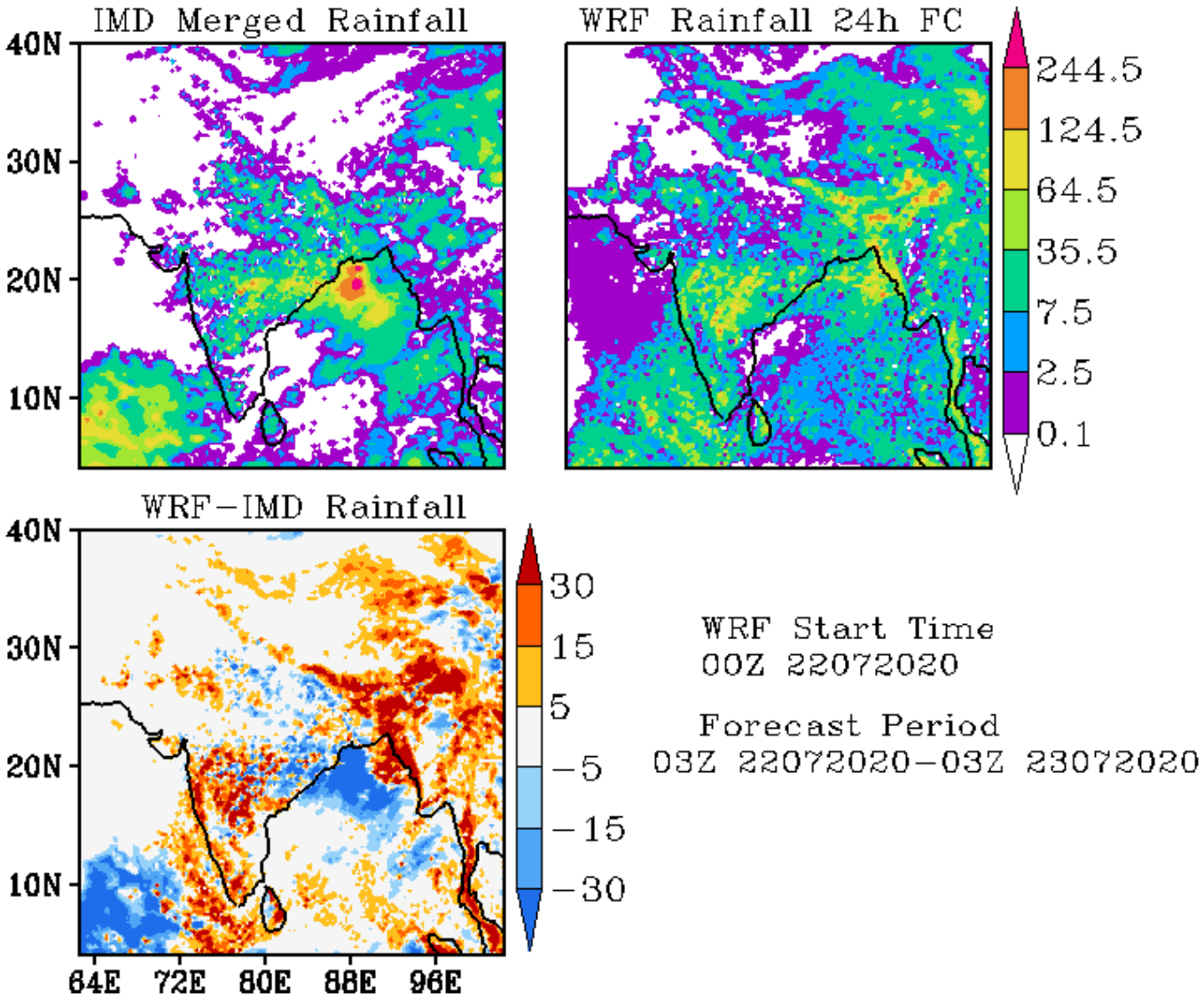
Rainfall Threshold (mm/day)
FAR
Rainfall Threshold (mm/day)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WRF Rainfall 24h FC
WRF−IMD Rainfall
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72E
80E
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96E
244.5
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7.5
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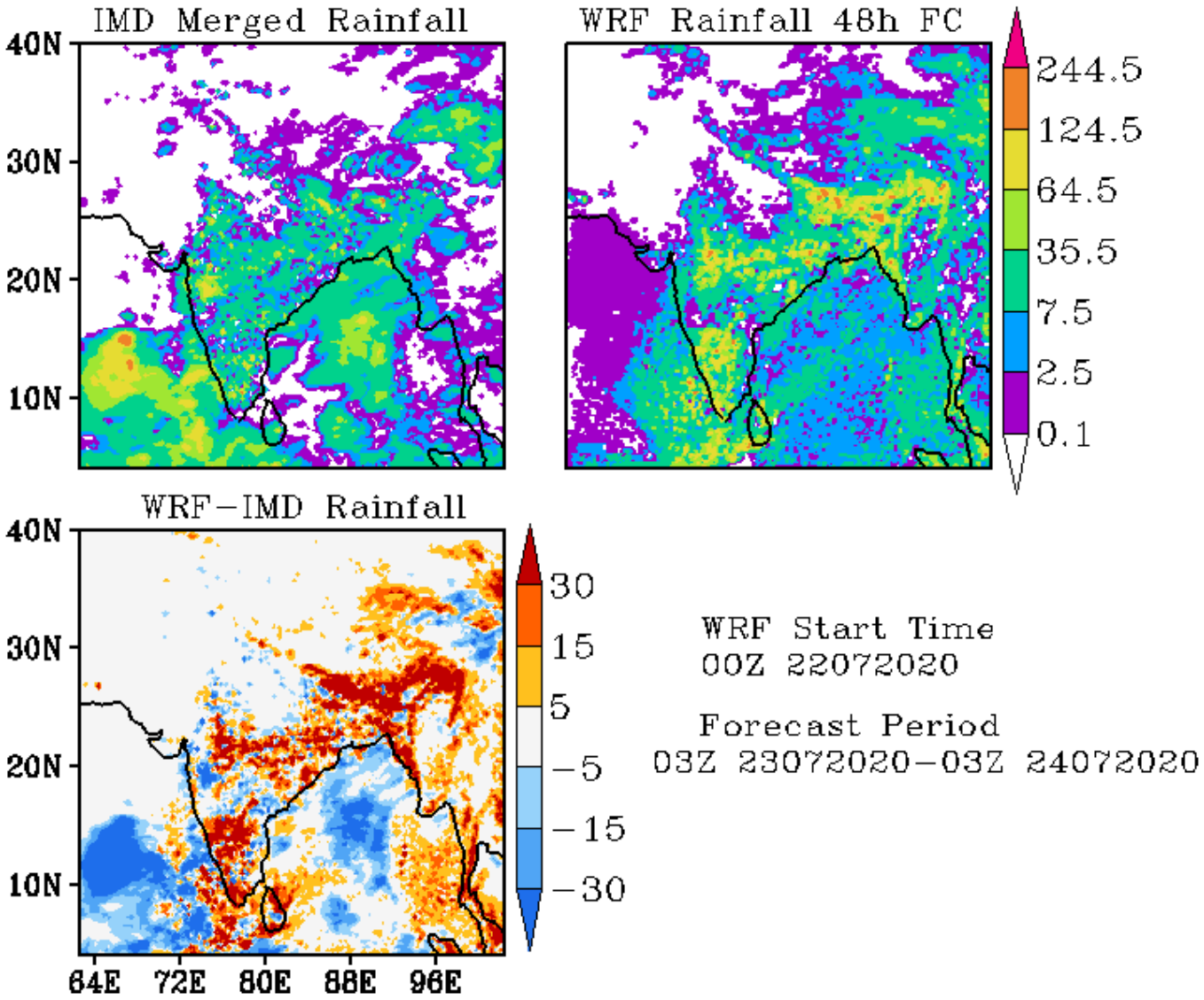
WRF Start Time
00Z 22072020
Forecast Period
03Z 22072020−03Z 23072020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WRF Rainfall 48h FC
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WRF−IMD Rainfall
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20N
10N
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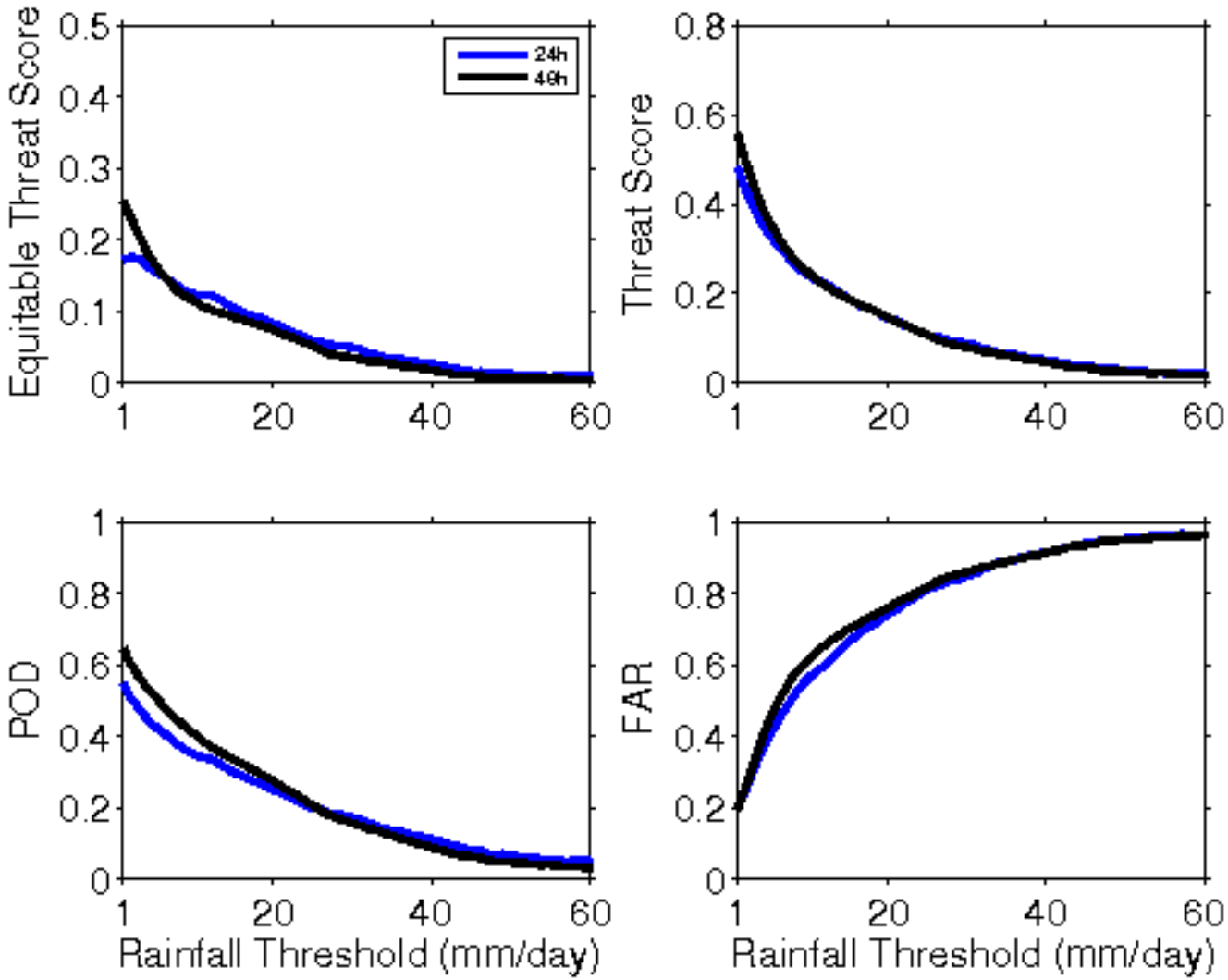
72E
80E
88E
96E
WRF Start Time
00Z 22072020
Forecast Period
03Z 23072020−03Z 24072020


Equitable Threat Score
0.5
0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
0.6
0.4
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1
20
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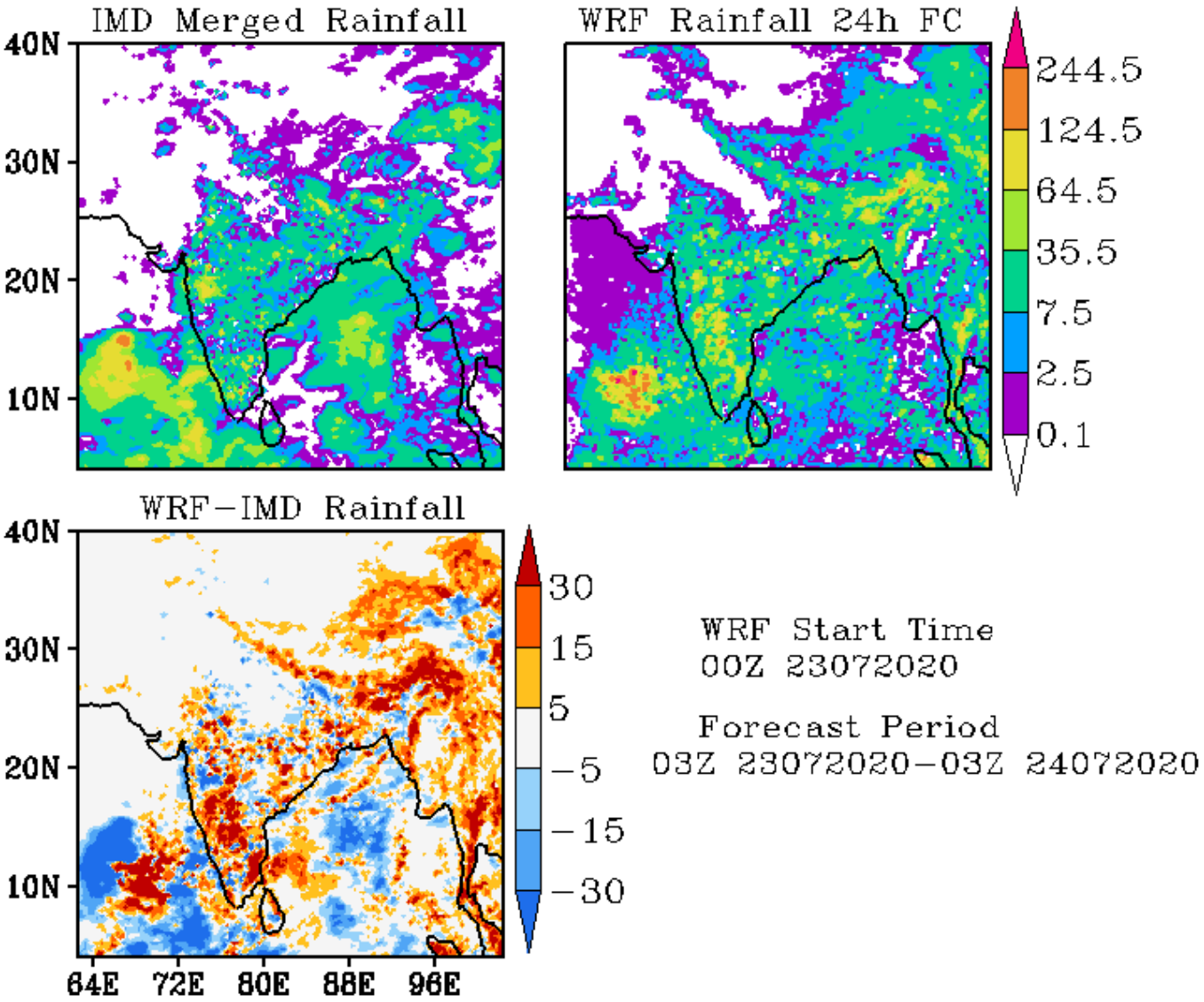
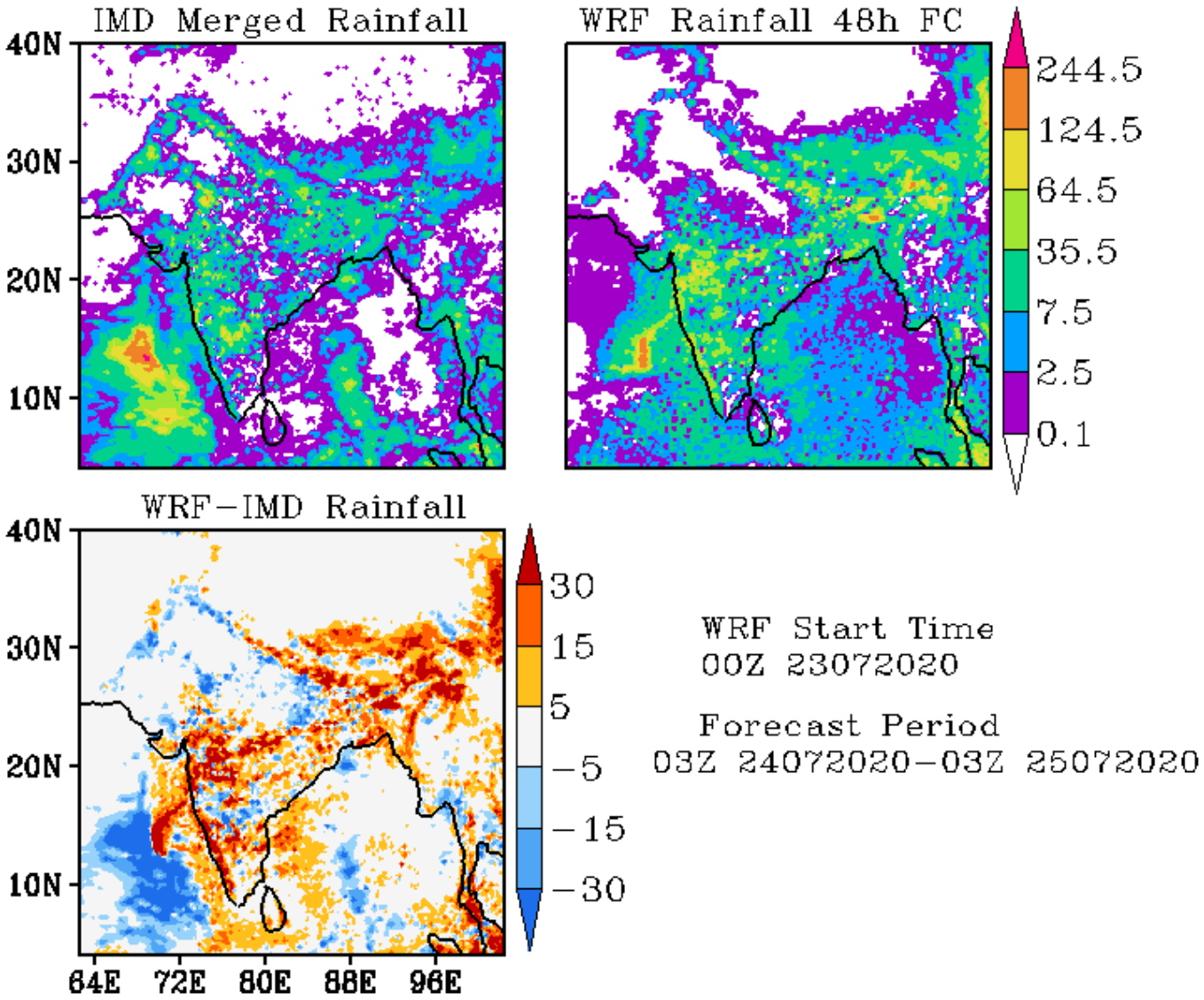
60
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
30N
20N
10N
64E
72E
80E
88E
96E
WRF Start Time
00Z 23072020
Forecast Period
03Z 23072020−03Z 24072020


IMD Merged Rainfall
WRF Rainfall 48h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
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5
−5
−15
−30
40N
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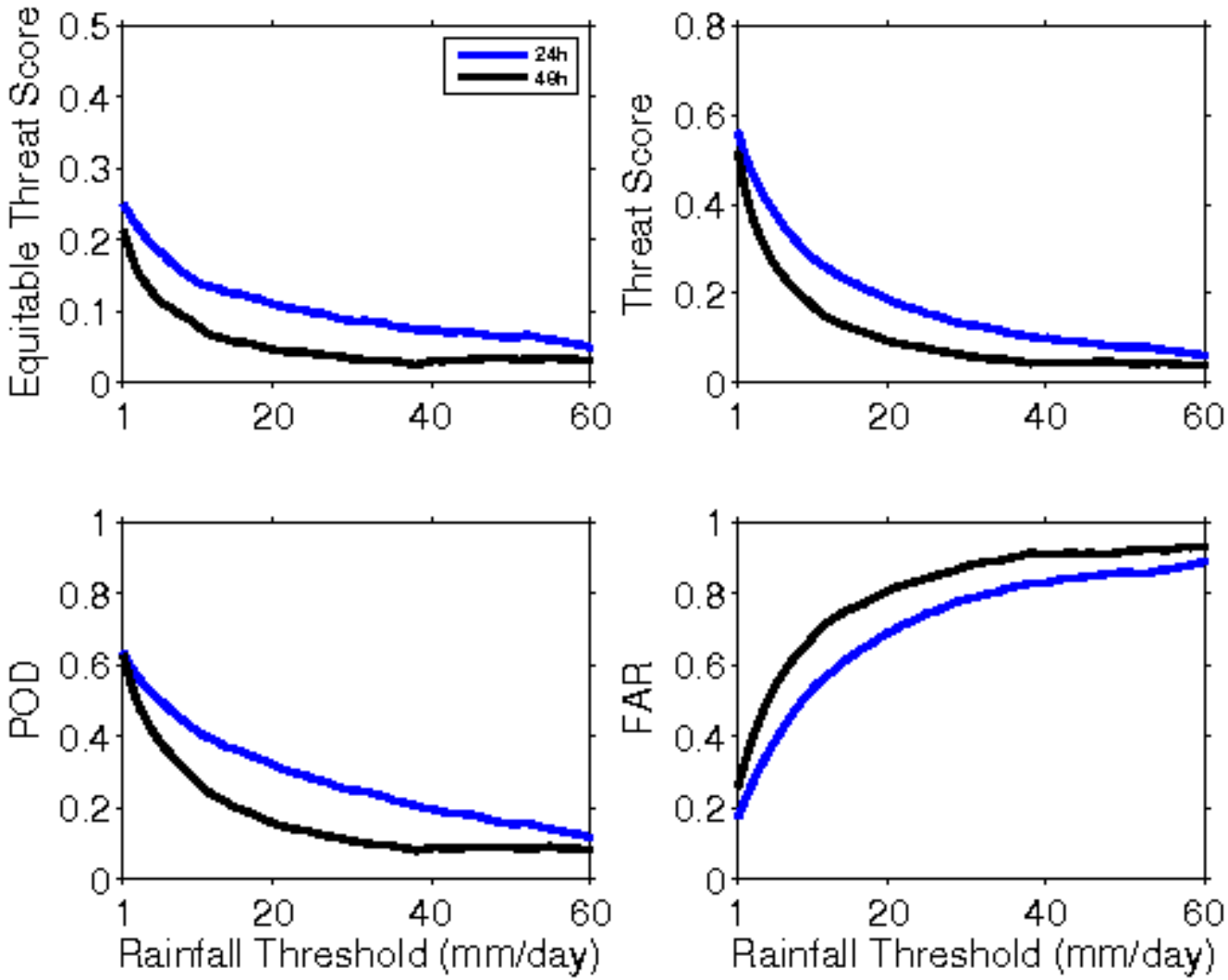
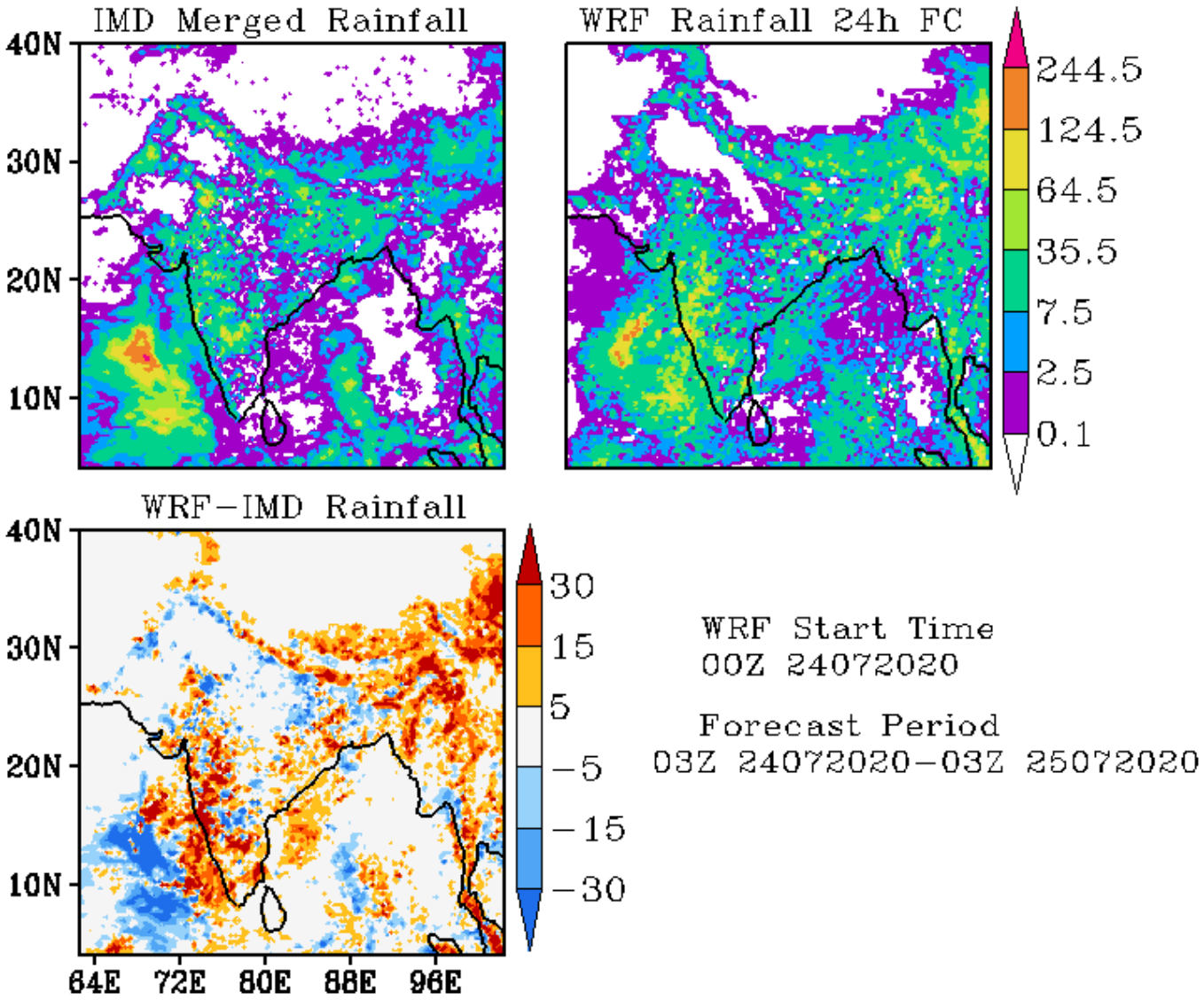
72E
80E
88E
96E
WRF Start Time
00Z 23072020
Forecast Period
03Z 24072020−03Z 25072020


Equitable Threat Score
0.5
0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)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WRF Rainfall 24h FC
WRF−IMD Rainfall
40N
30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
2.5
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15
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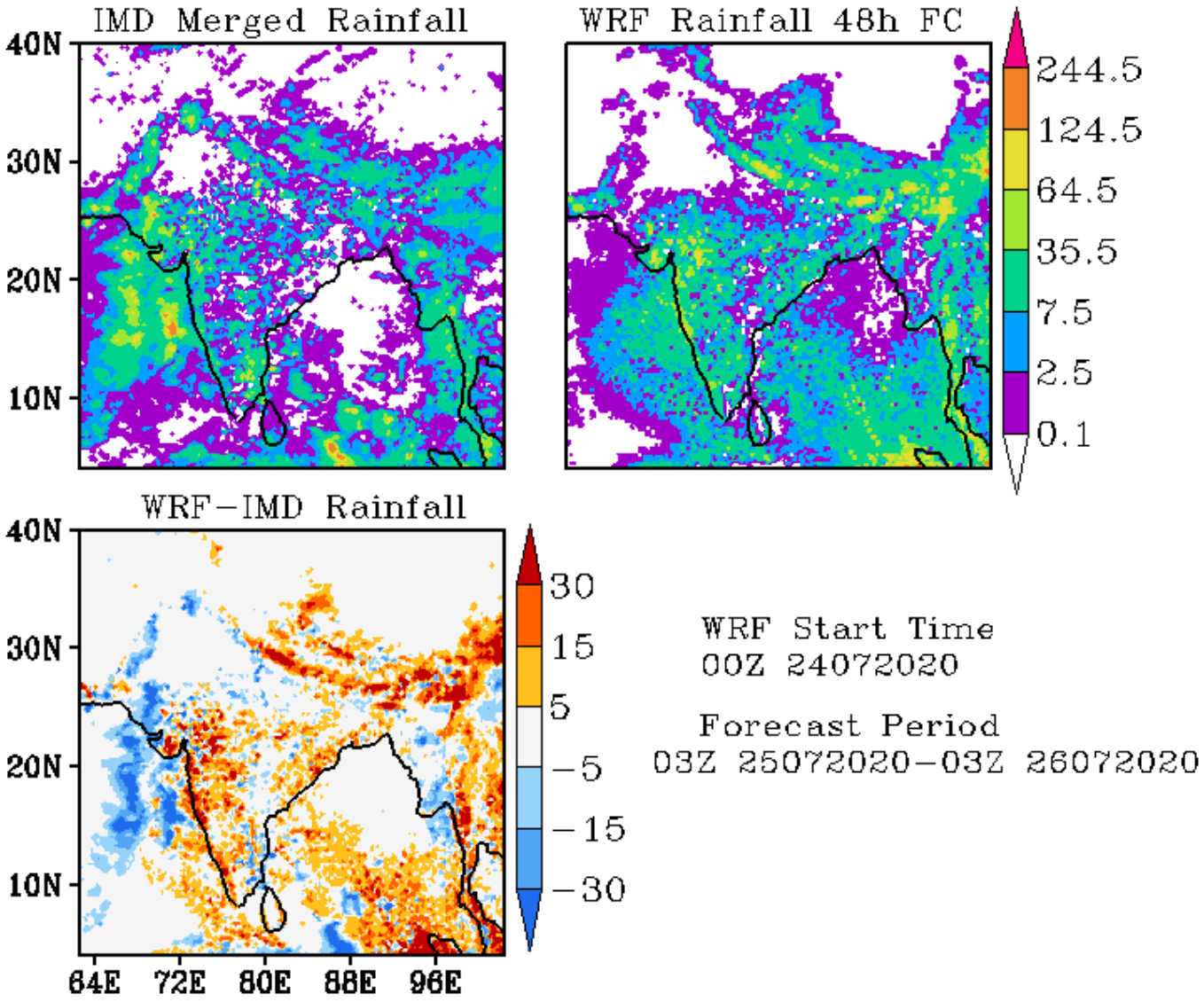
WRF Start Time
00Z 24072020
Forecast Period
03Z 24072020−03Z 25072020


IMD Merged Rainfall
WRF Rainfall 48h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
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−5
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40N
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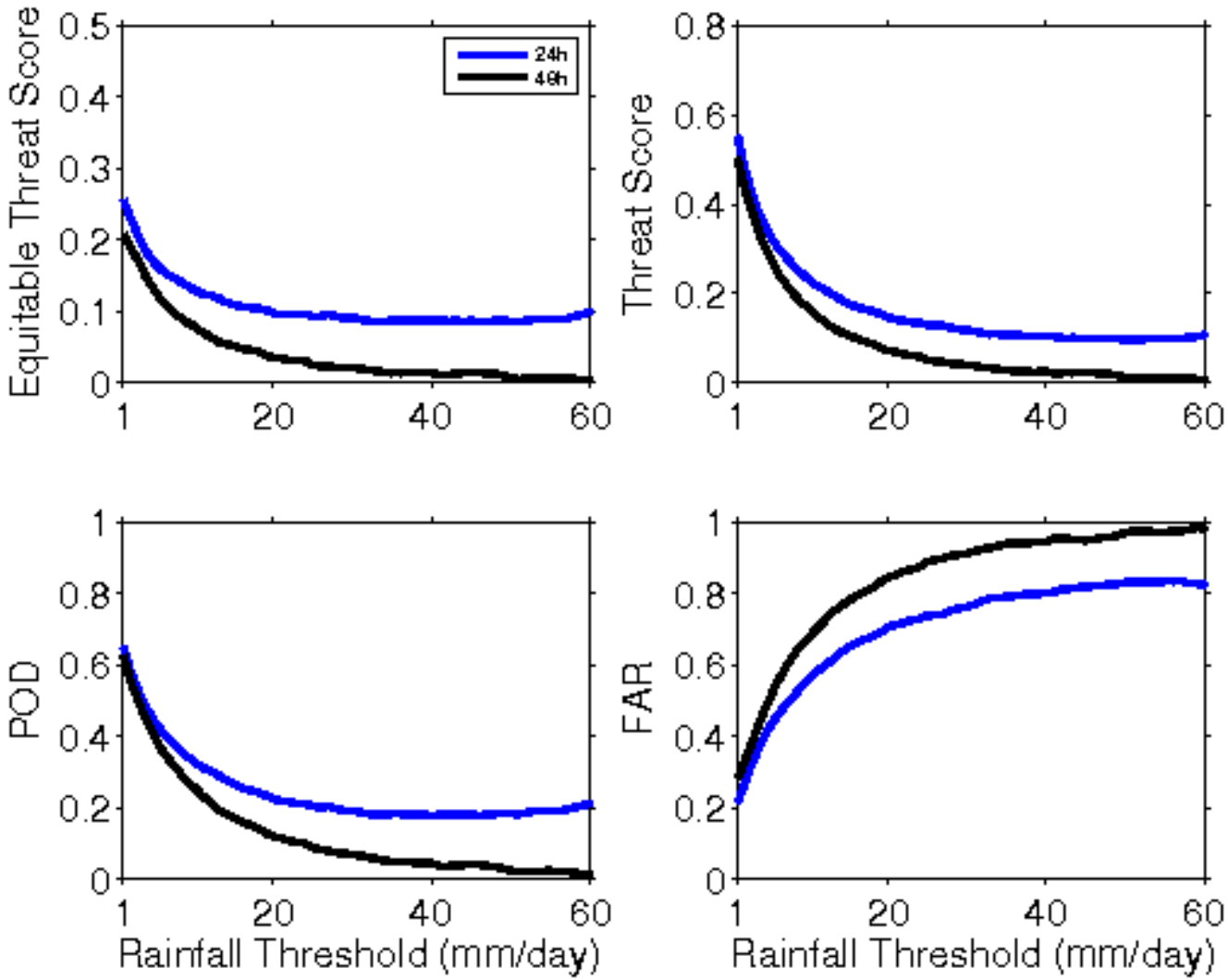
88E
96E
WRF Start Time
00Z 24072020
Forecast Period
03Z 25072020−03Z 26072020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Threat Score
POD
FAR
24h
48h
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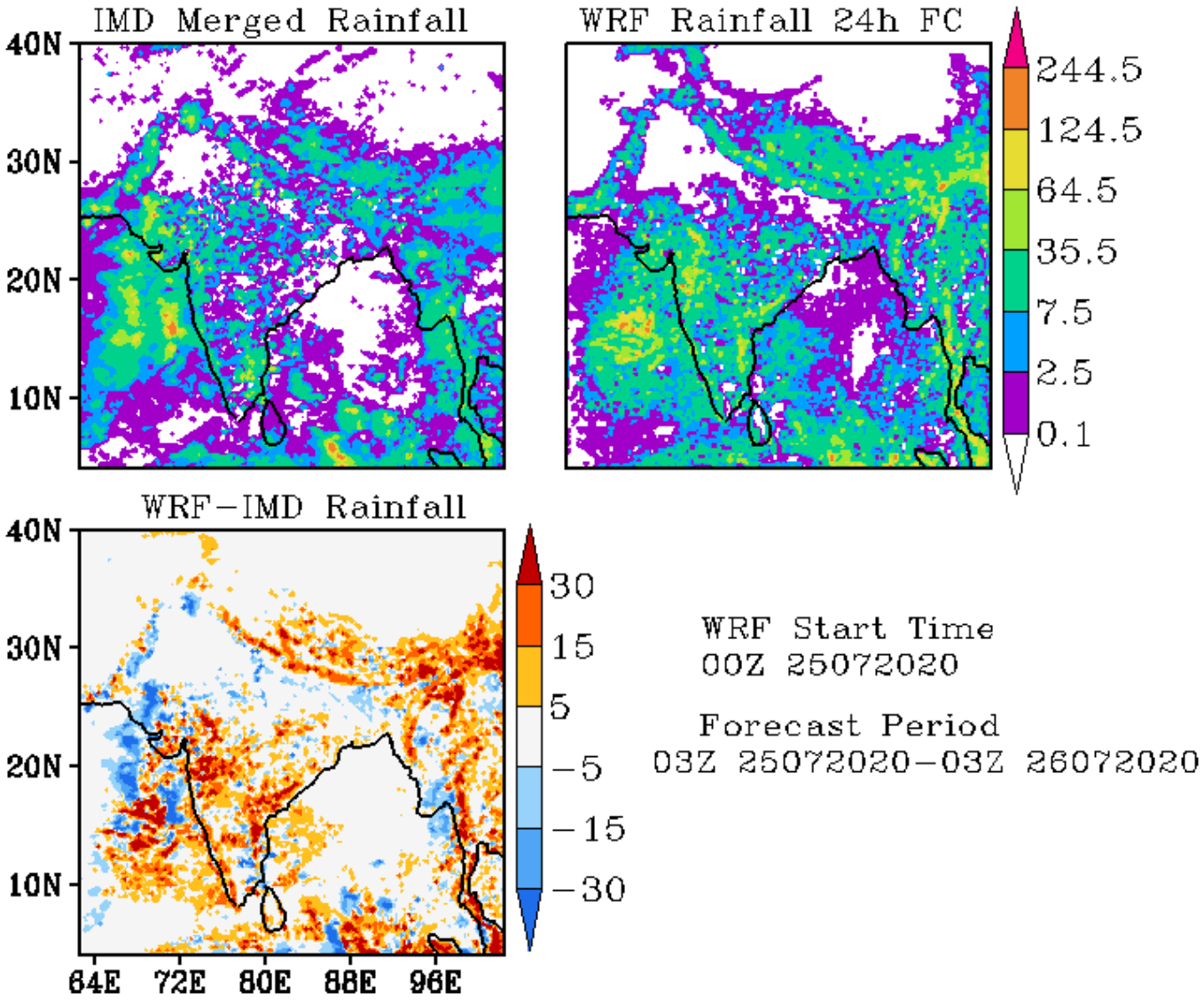
0.2
0.3
0.4
0.5
0.6
0.8
1
20
40
60
Rainfall Threshold (mm/day)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WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
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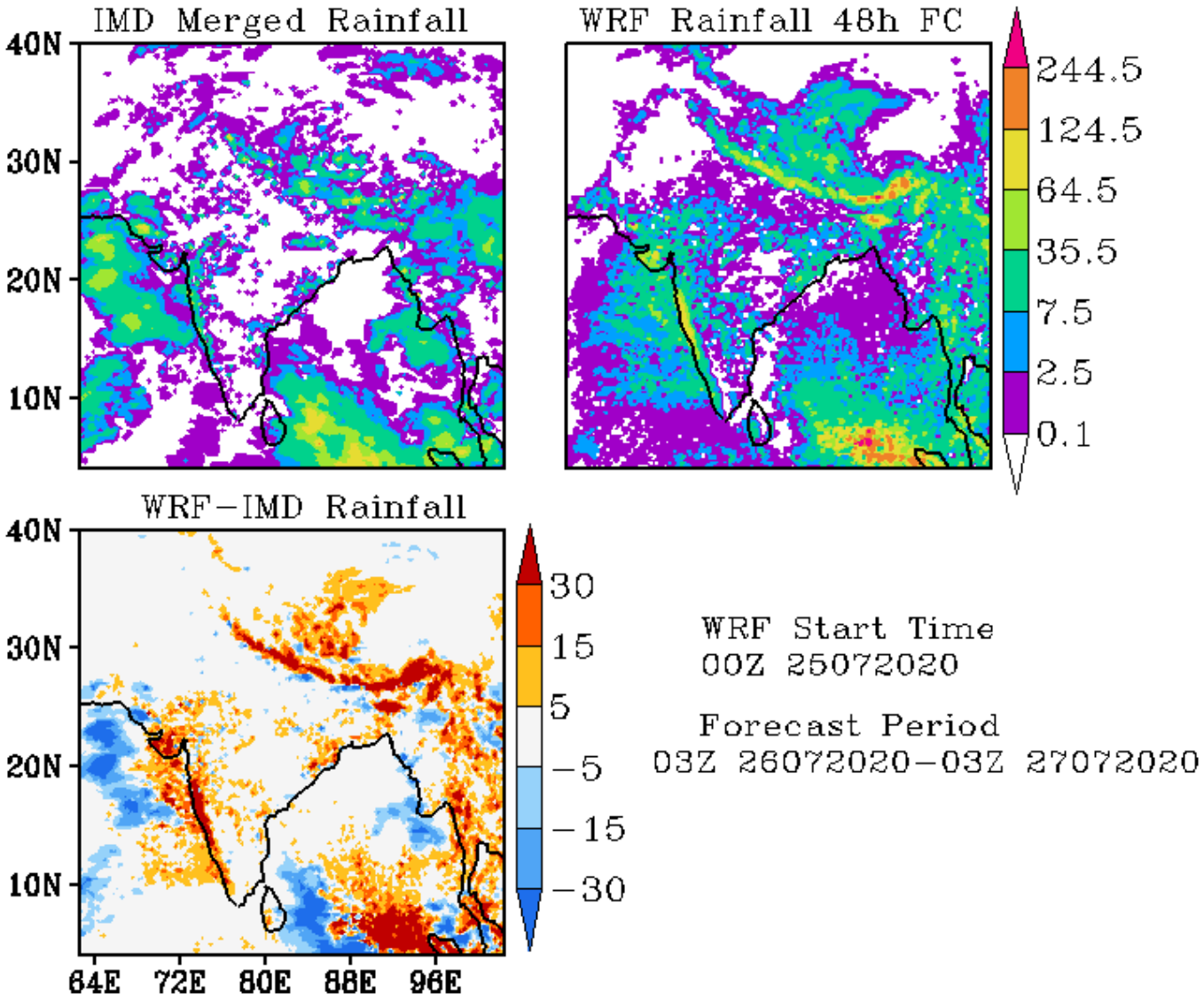
64E
72E
80E
88E
96E
WRF Start Time
00Z 25072020
Forecast Period
03Z 25072020−03Z 26072020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WRF Rainfall 48h FC
WRF−IMD Rainfall
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30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
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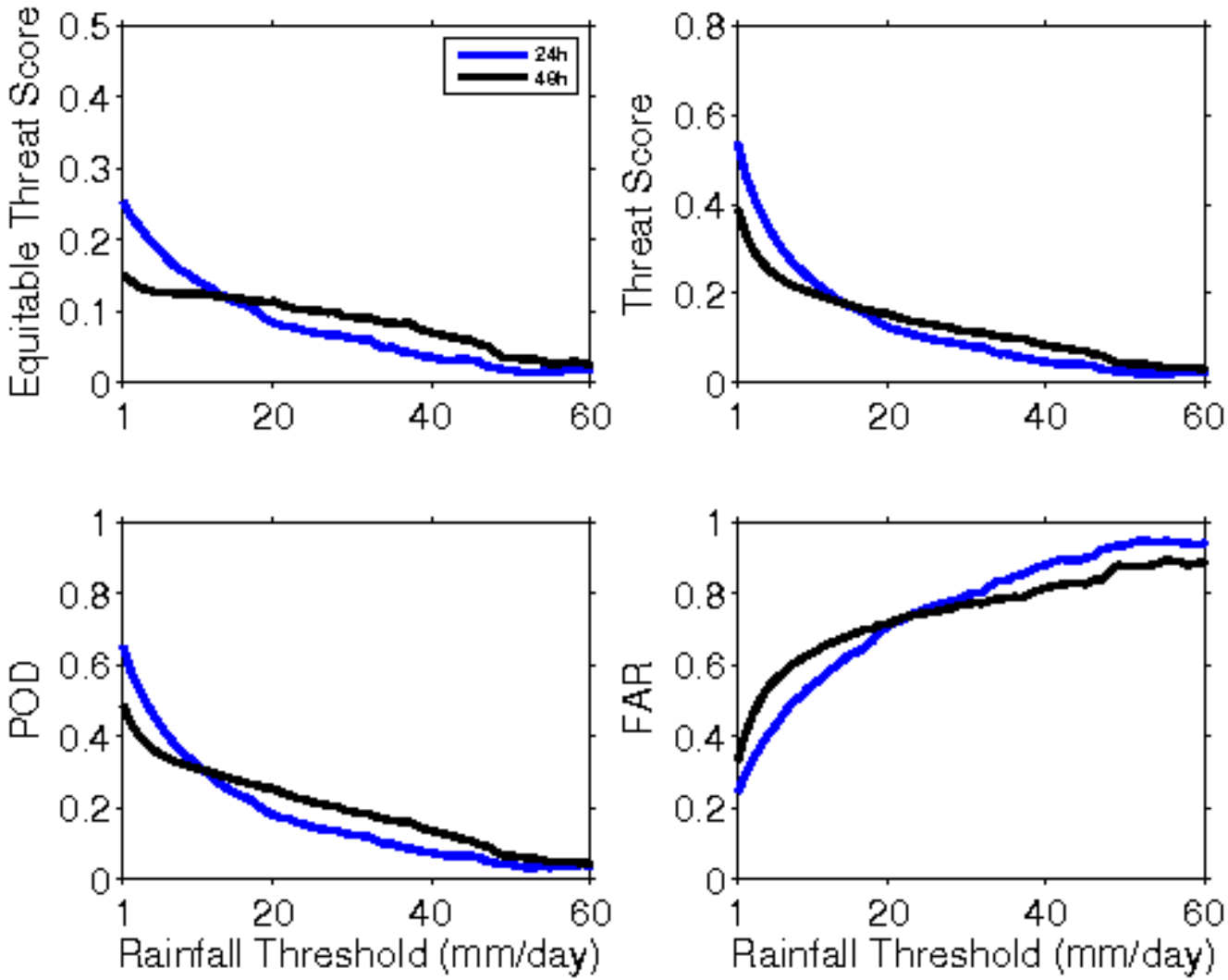
WRF Start Time
00Z 25072020
Forecast Period
03Z 26072020−03Z 27072020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0.4
0.3
0.2
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0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
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0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
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0.8
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0.4
0.2
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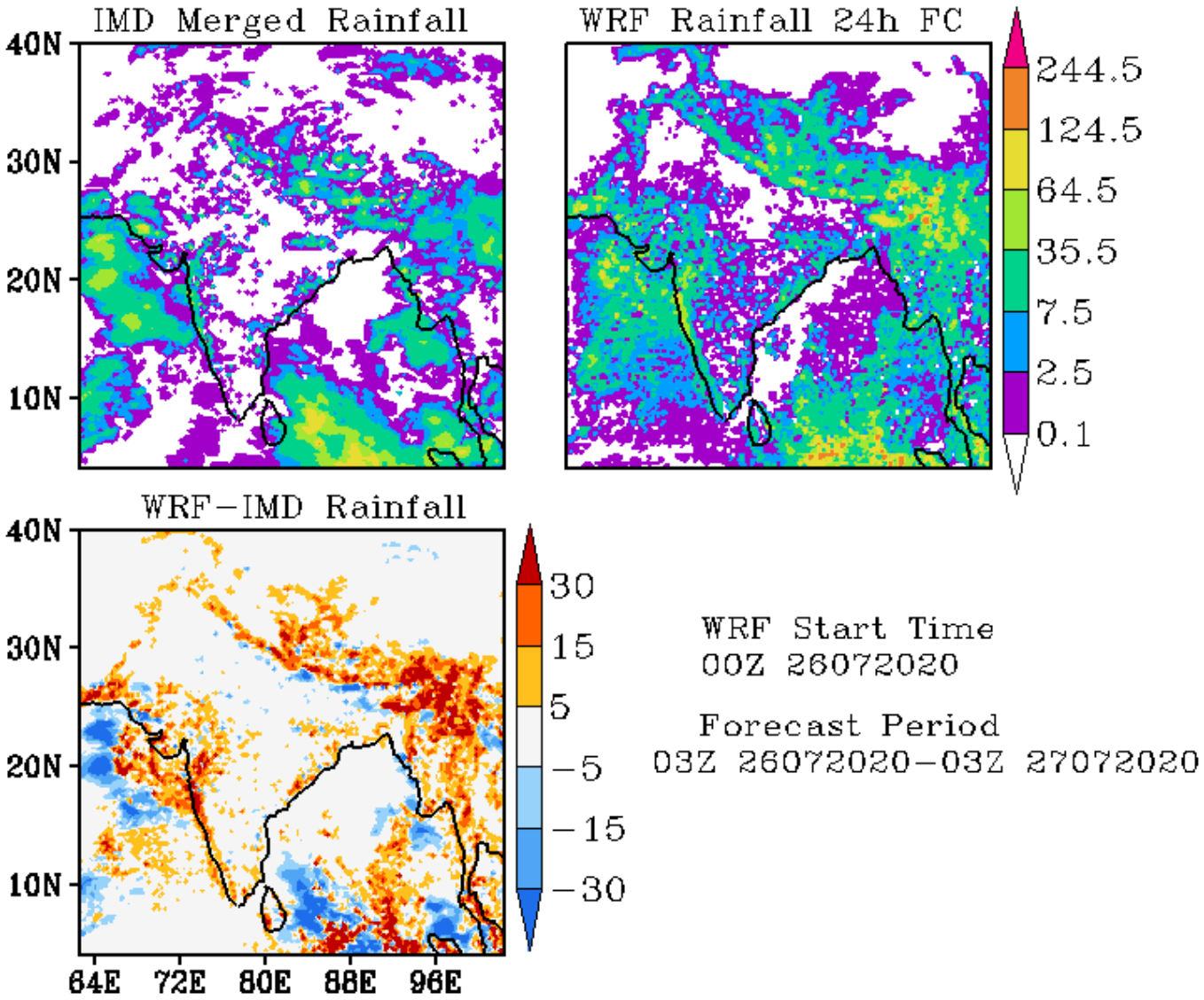
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
WRF−IMD Rainfall
40N
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10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
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WRF Start Time
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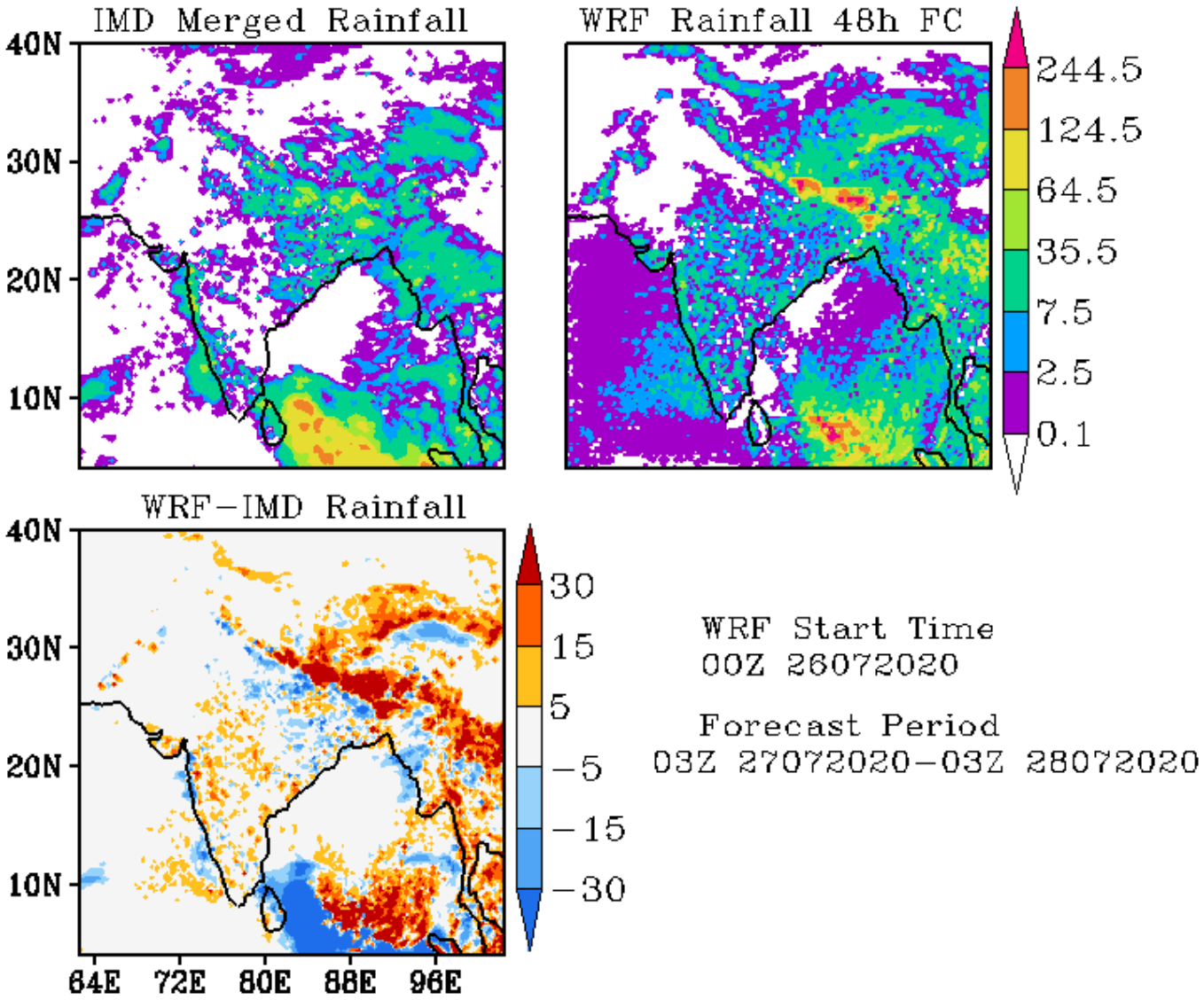
Forecast Period
03Z 26072020−03Z 27072020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WRF Rainfall 48h FC
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64.5
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7.5
2.5
0.1
WRF−IMD Rainfall
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40N
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WRF Start Time
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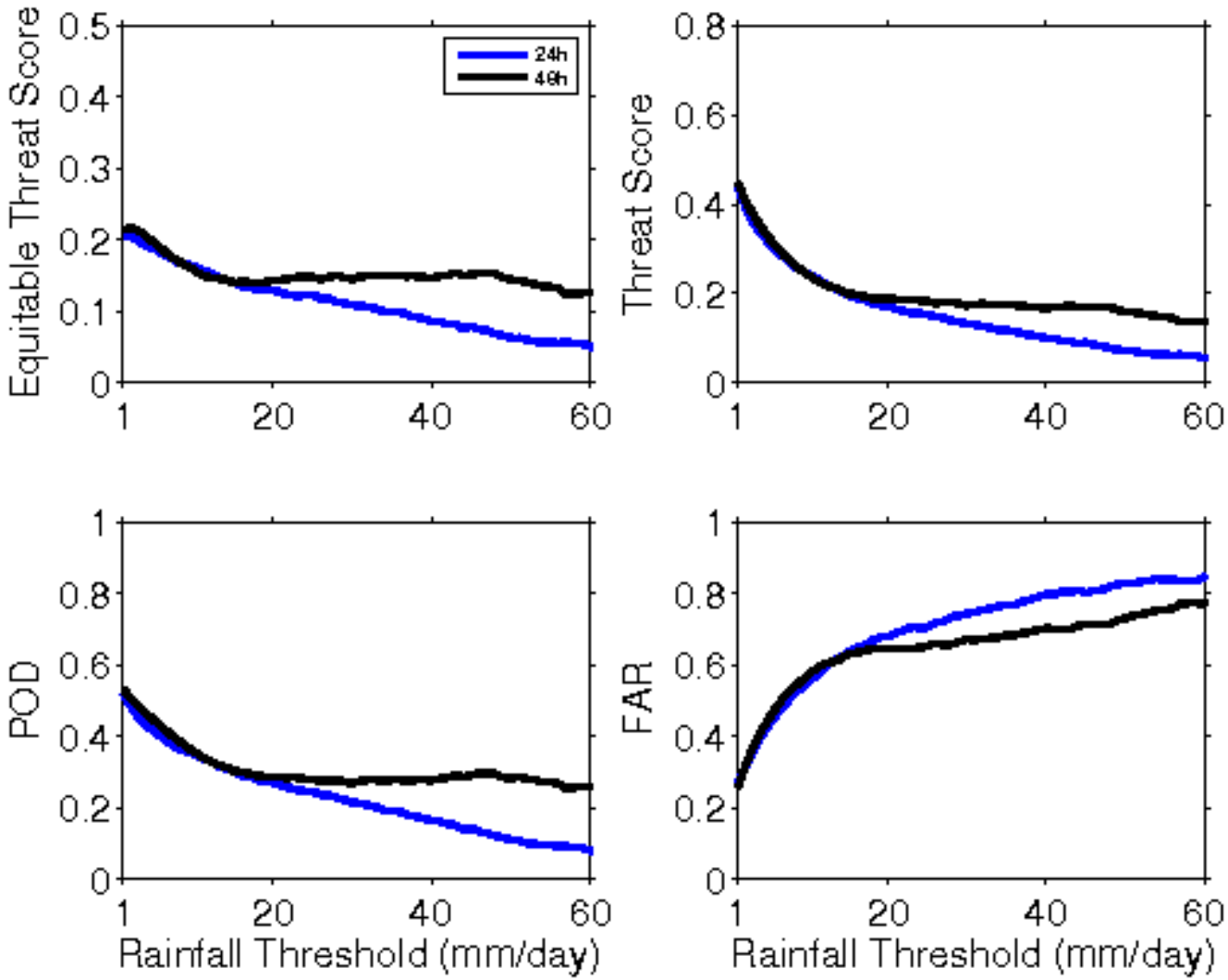
Forecast Period
03Z 27072020−03Z 28072020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0.3
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24h
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Threat Score
0.8
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0.4
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POD
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Rainfall Threshold (mm/day)
FAR
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0.4
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20
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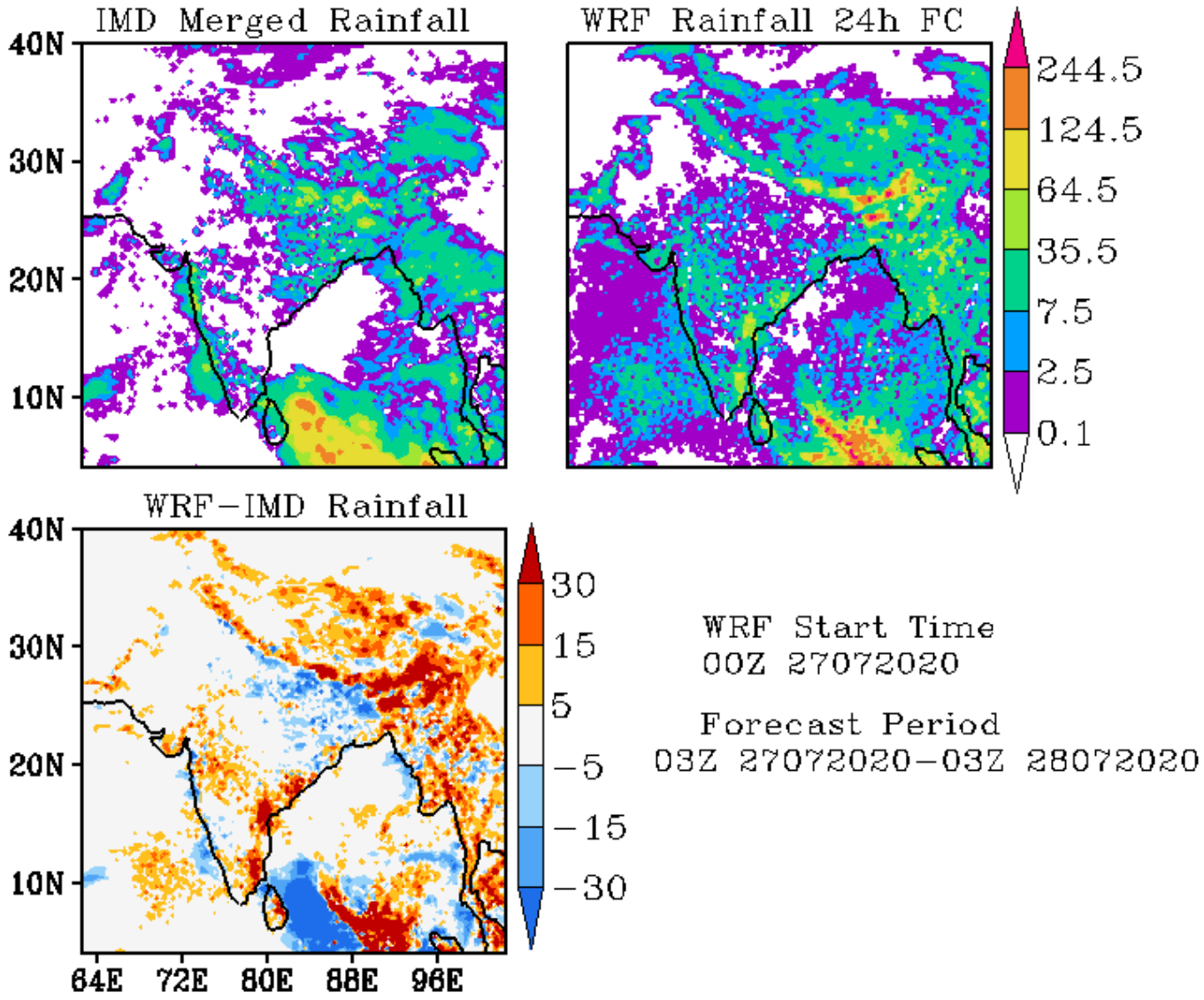
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
WRF−IMD Rainfall
40N
30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
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WRF Start Time
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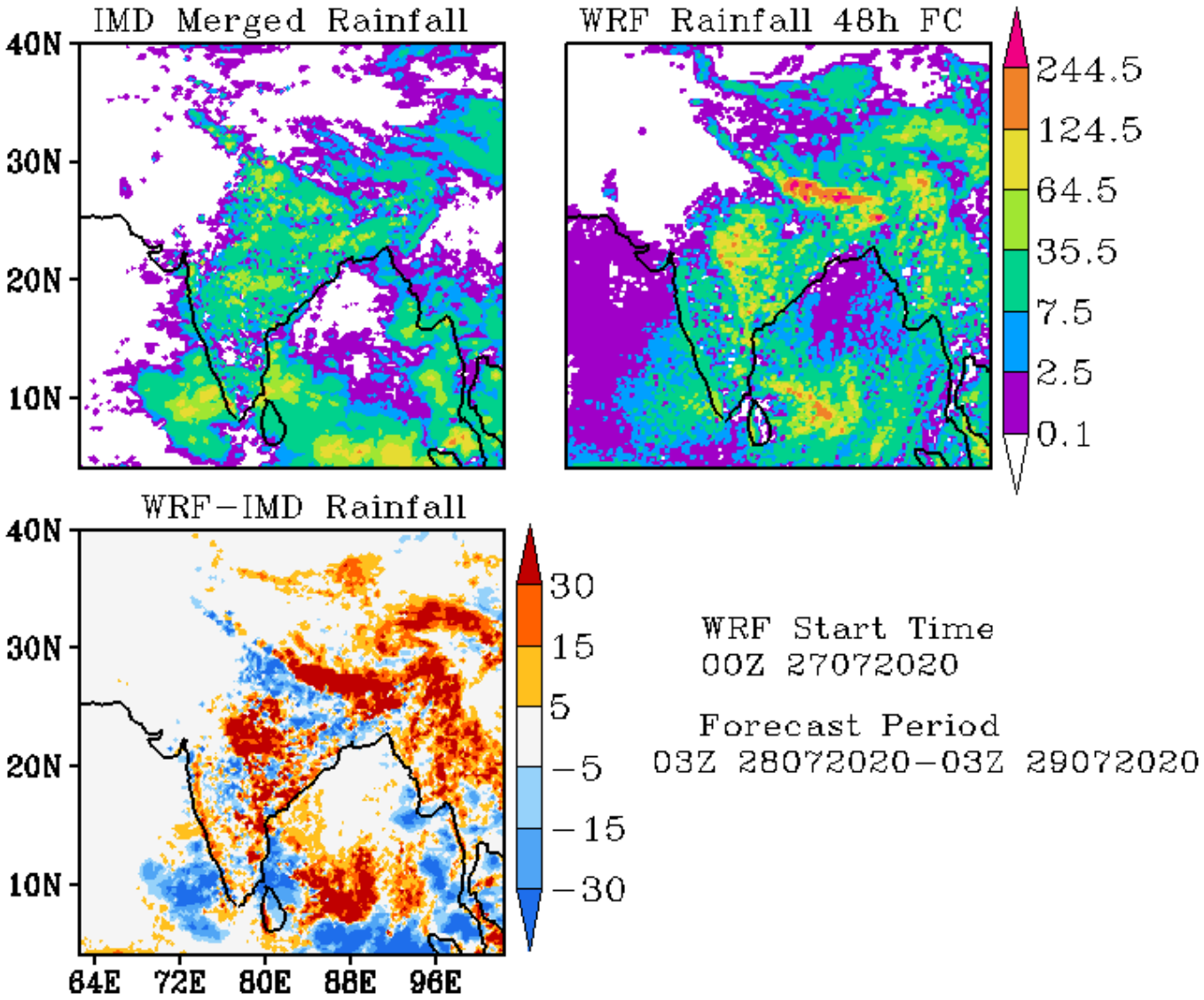
Forecast Period
03Z 27072020−03Z 28072020


IMD Merged Rainfall
WRF Rainfall 48h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
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−5
−15
−30
40N
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72E
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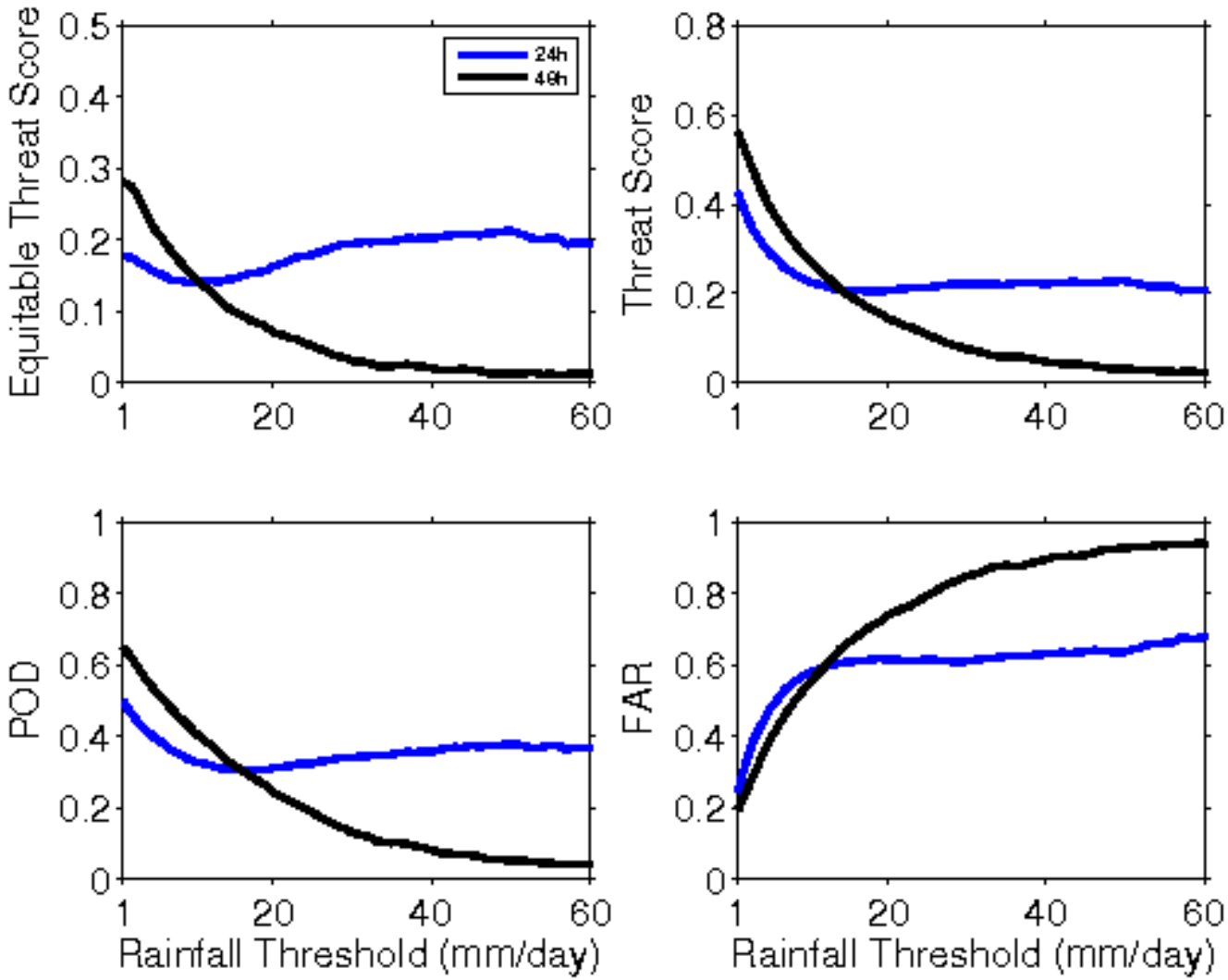
96E
WRF Start Time
00Z 27072020
Forecast Period
03Z 28072020−03Z 29072020


Equitable Threat Score
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0.4
0.3
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0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
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20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
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1
20
40
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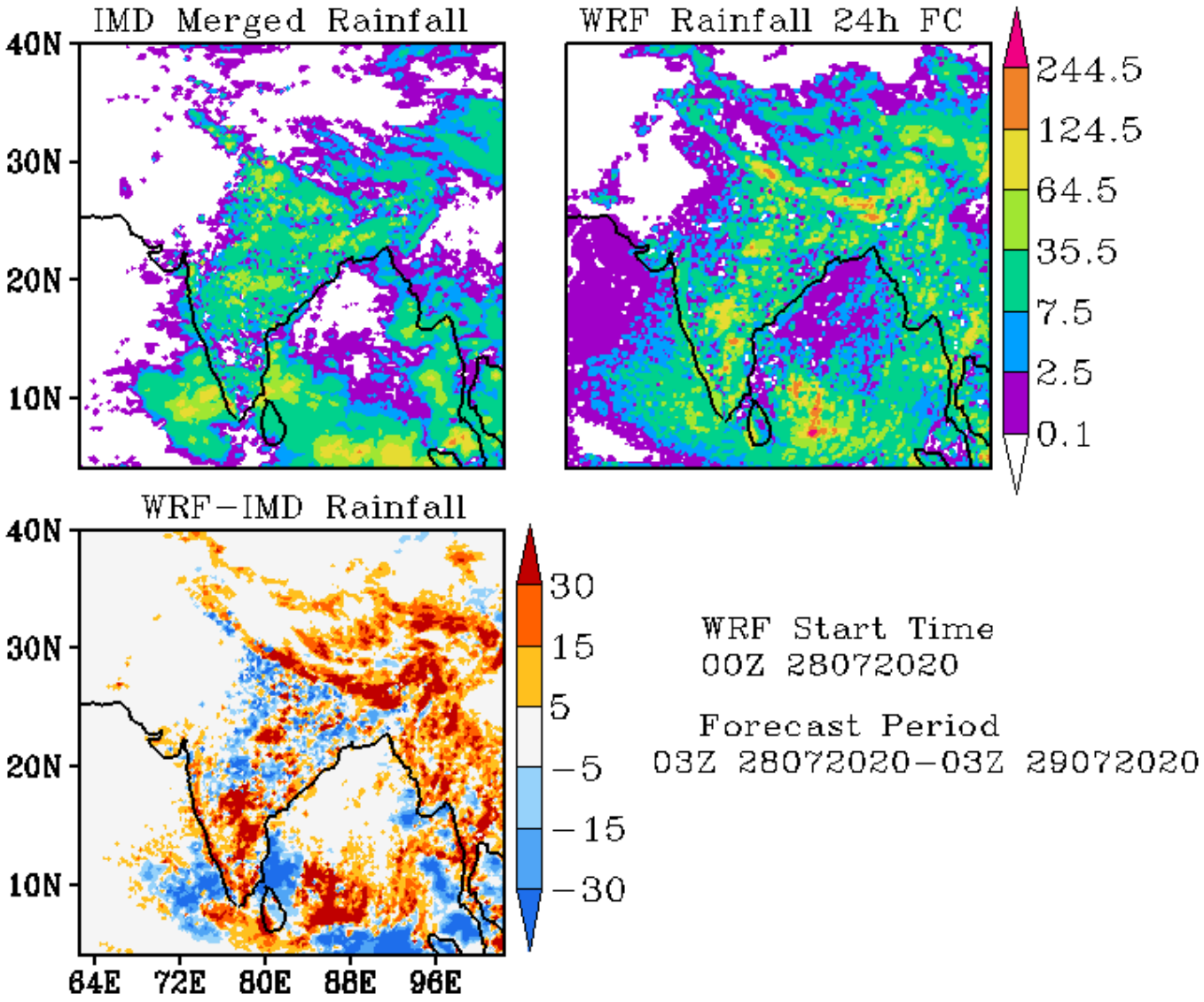
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
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124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
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72E
80E
88E
96E
WRF Start Time
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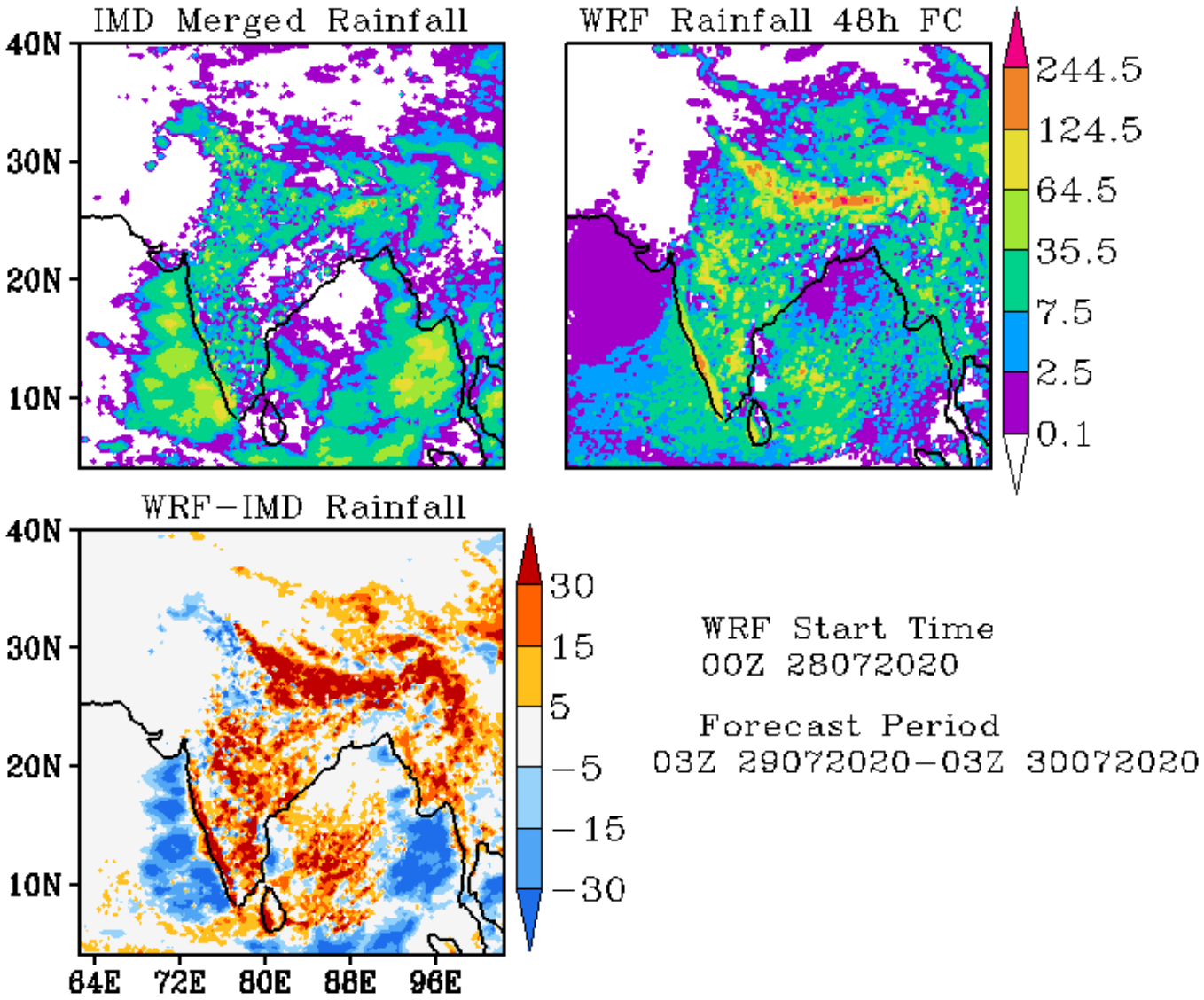
Forecast Period
03Z 28072020−03Z 29072020


IMD Merged Rainfall
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WRF−IMD Rainfall
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15
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−15
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40N
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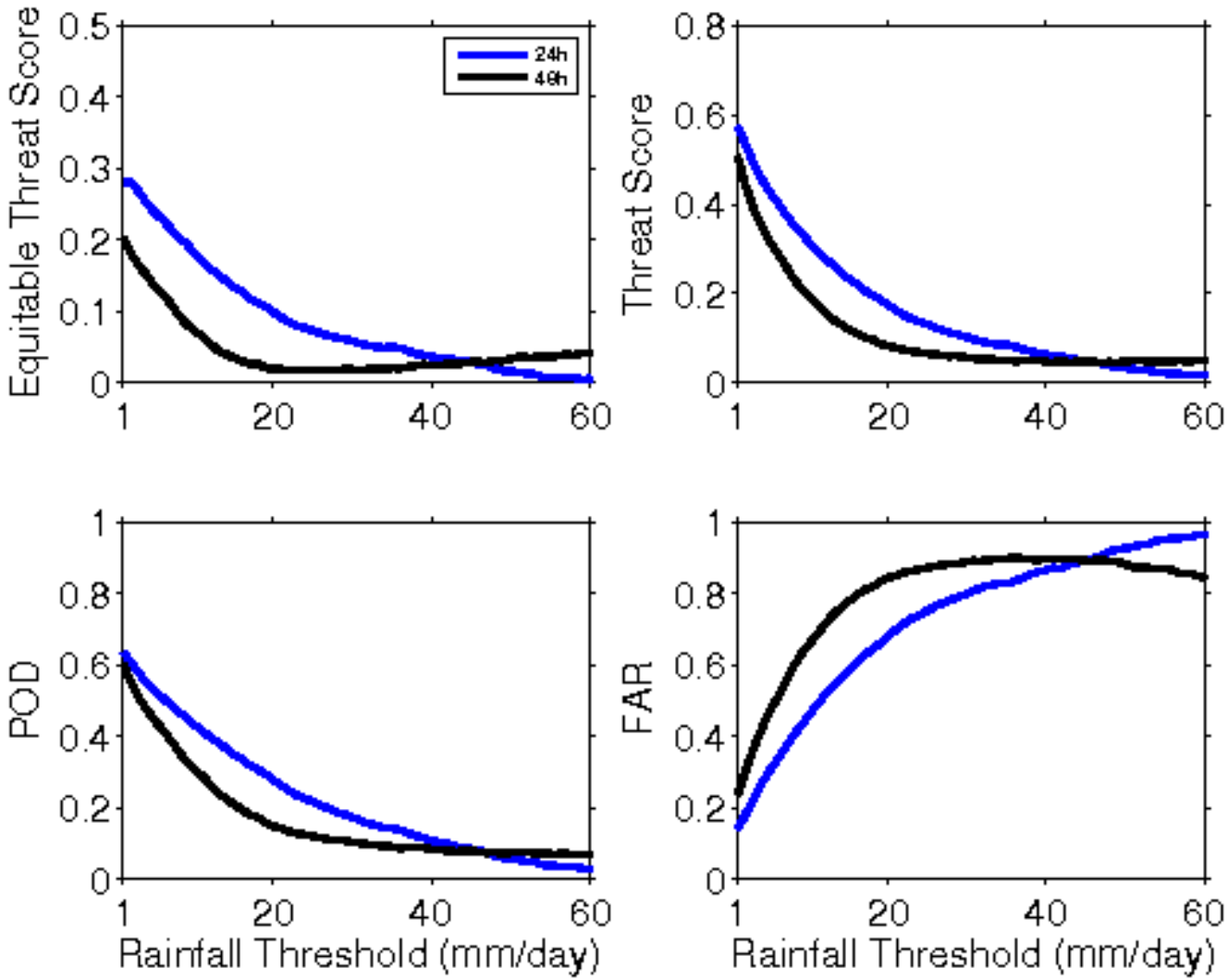
WRF Start Time
00Z 28072020
Forecast Period
03Z 29072020−03Z 30072020


Equitable Threat Score
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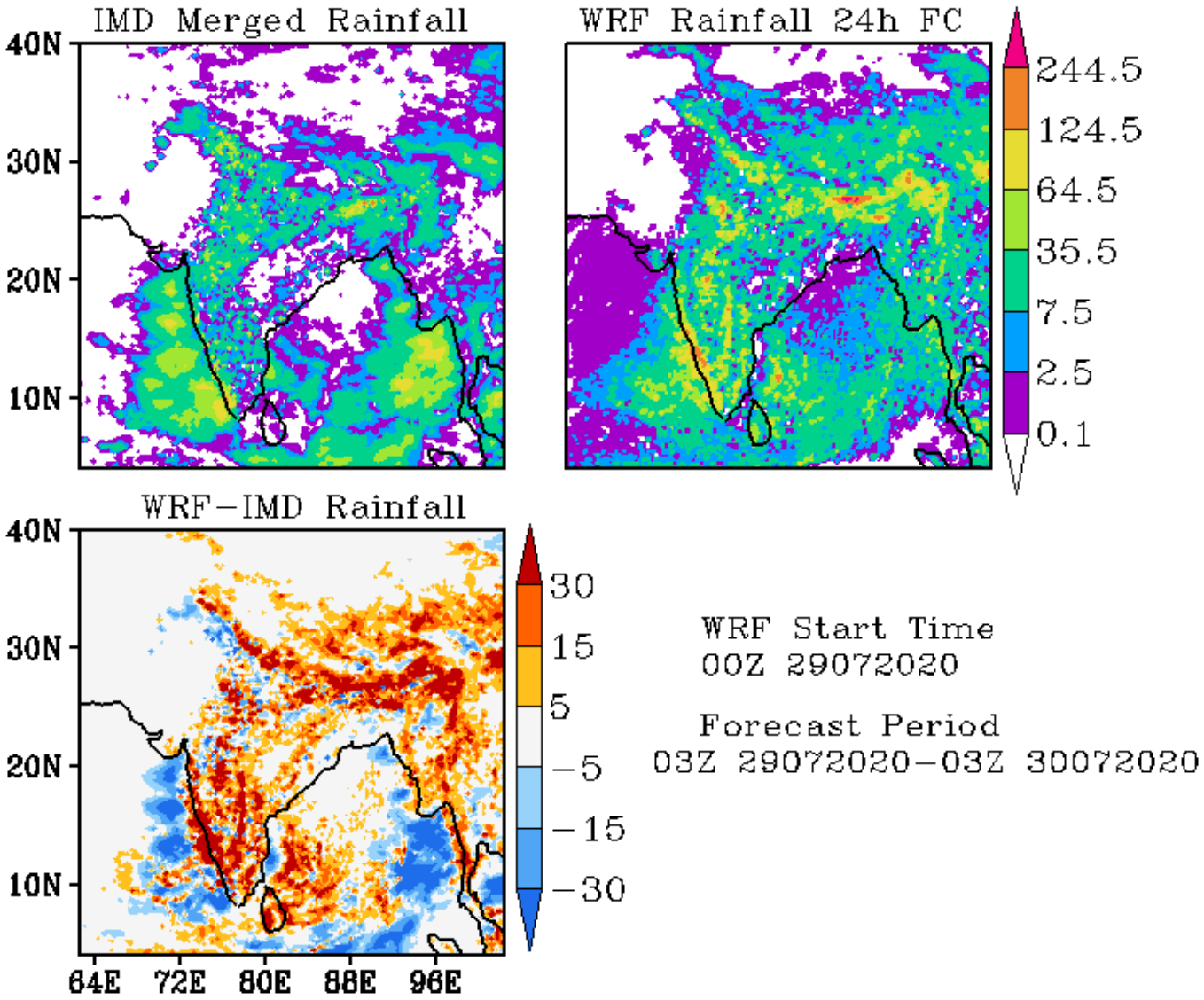
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
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40N
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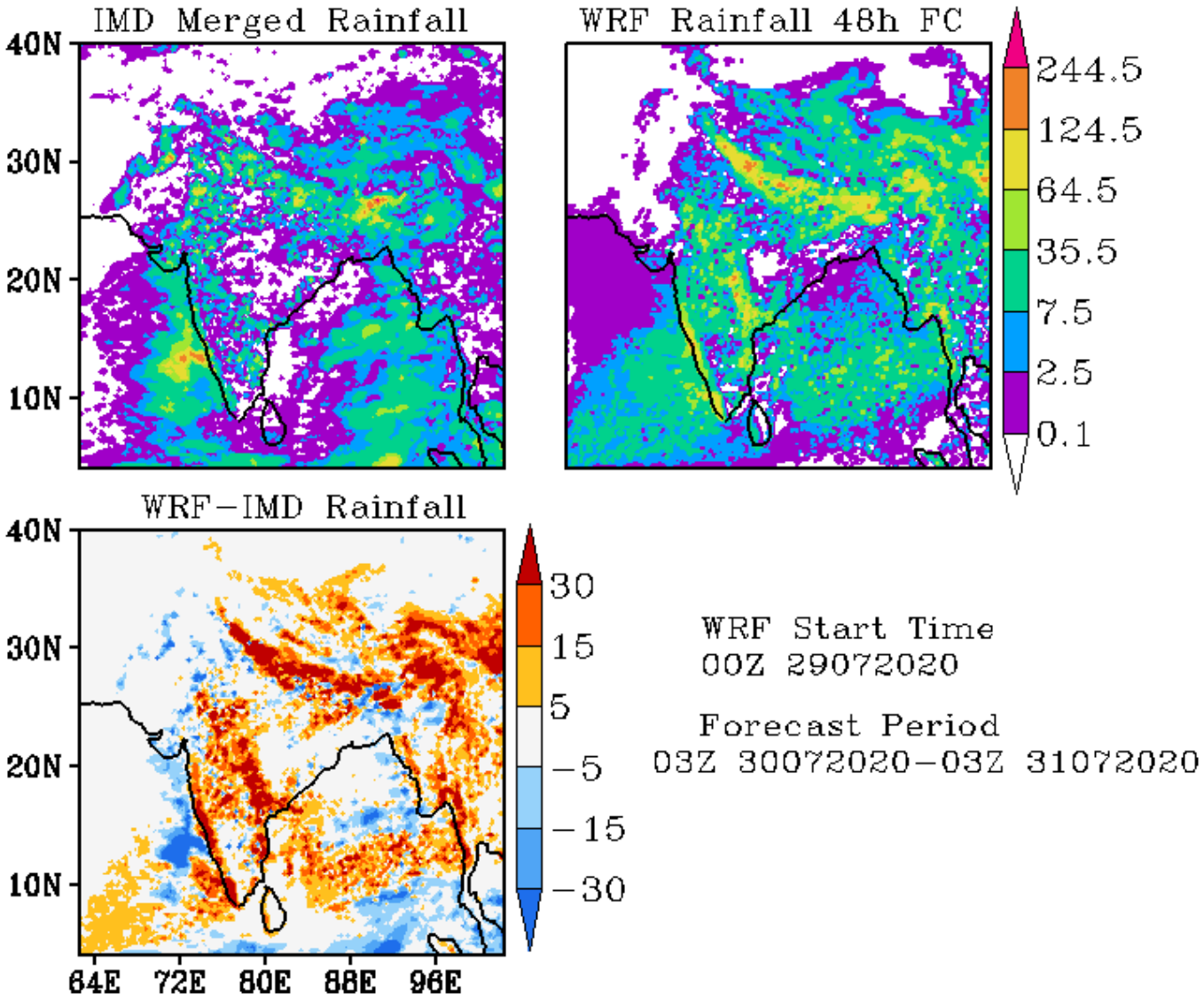
72E
80E
88E
96E
WRF Start Time
00Z 29072020
Forecast Period
03Z 29072020−03Z 30072020


IMD Merged Rainfall
WRF Rainfall 48h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
5
−5
−15
−30
40N
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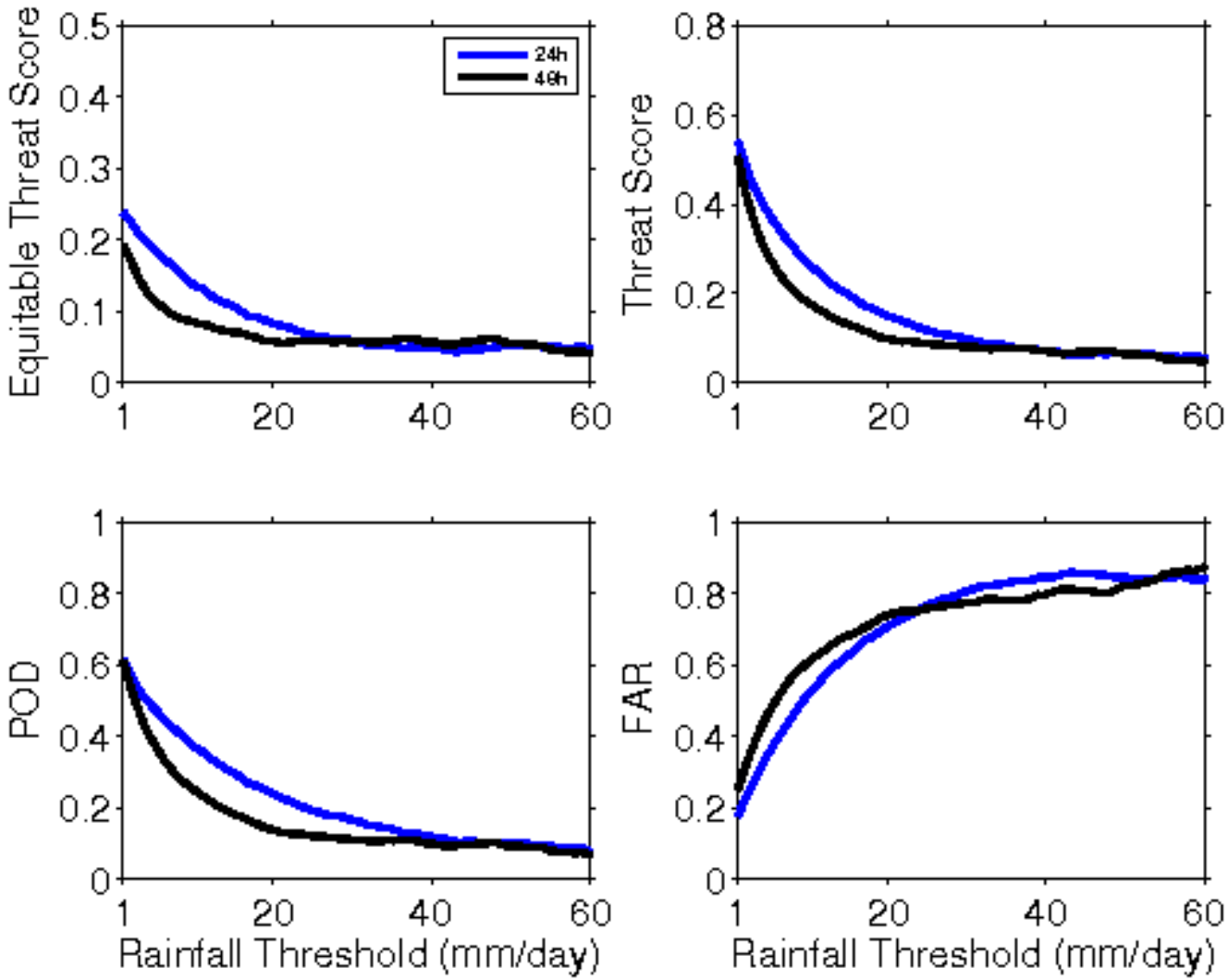
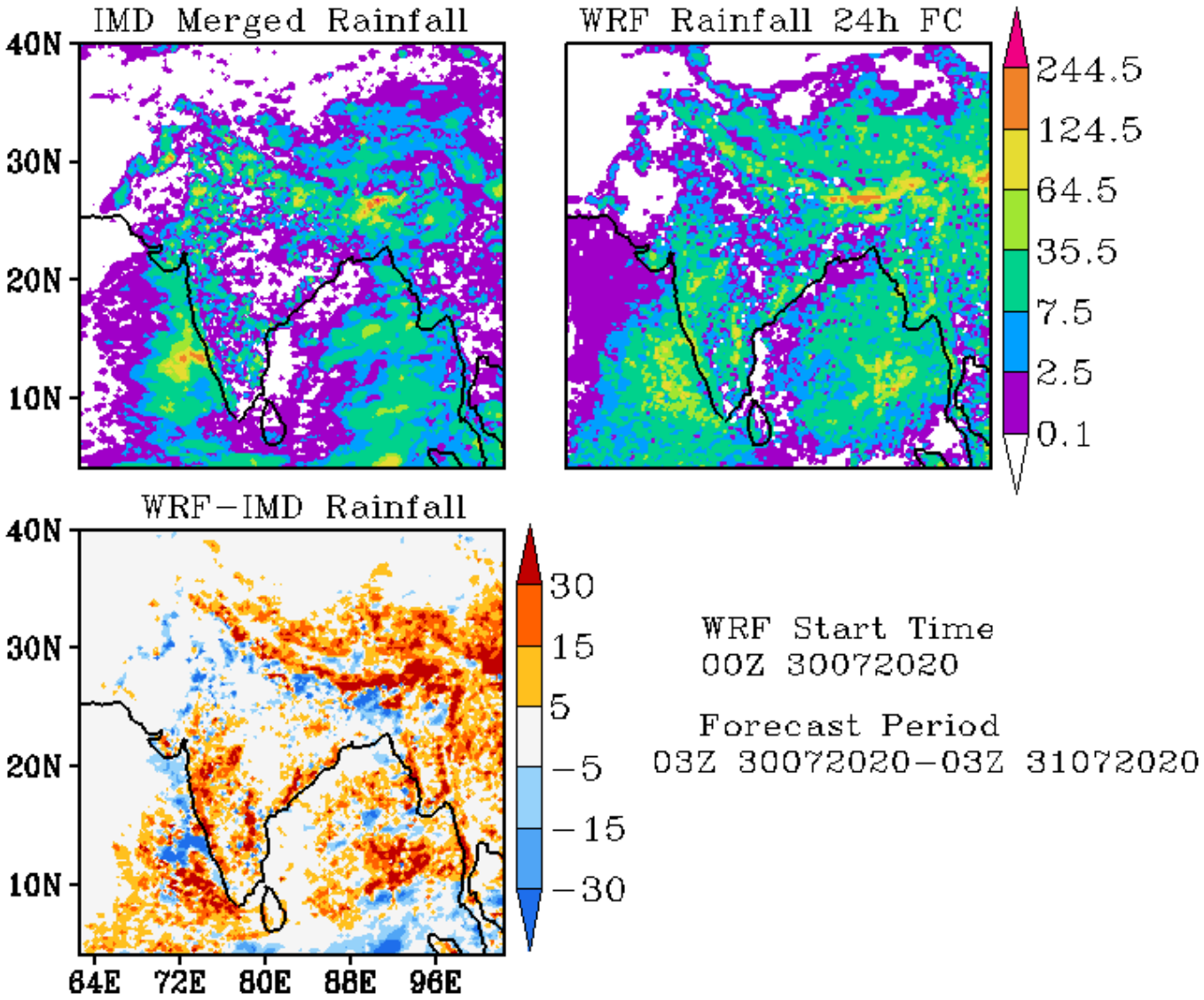
72E
80E
88E
96E
WRF Start Time
00Z 29072020
Forecast Period
03Z 30072020−03Z 31072020


Equitable Threat Score
Threat Score
POD
FAR
24h
48h
0
0.1
0.2
0.3
0.4
0.5
0.6
0.8
1
20
40
60
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
30
15
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−5
−15
−30
40N
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80E
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WRF Start Time
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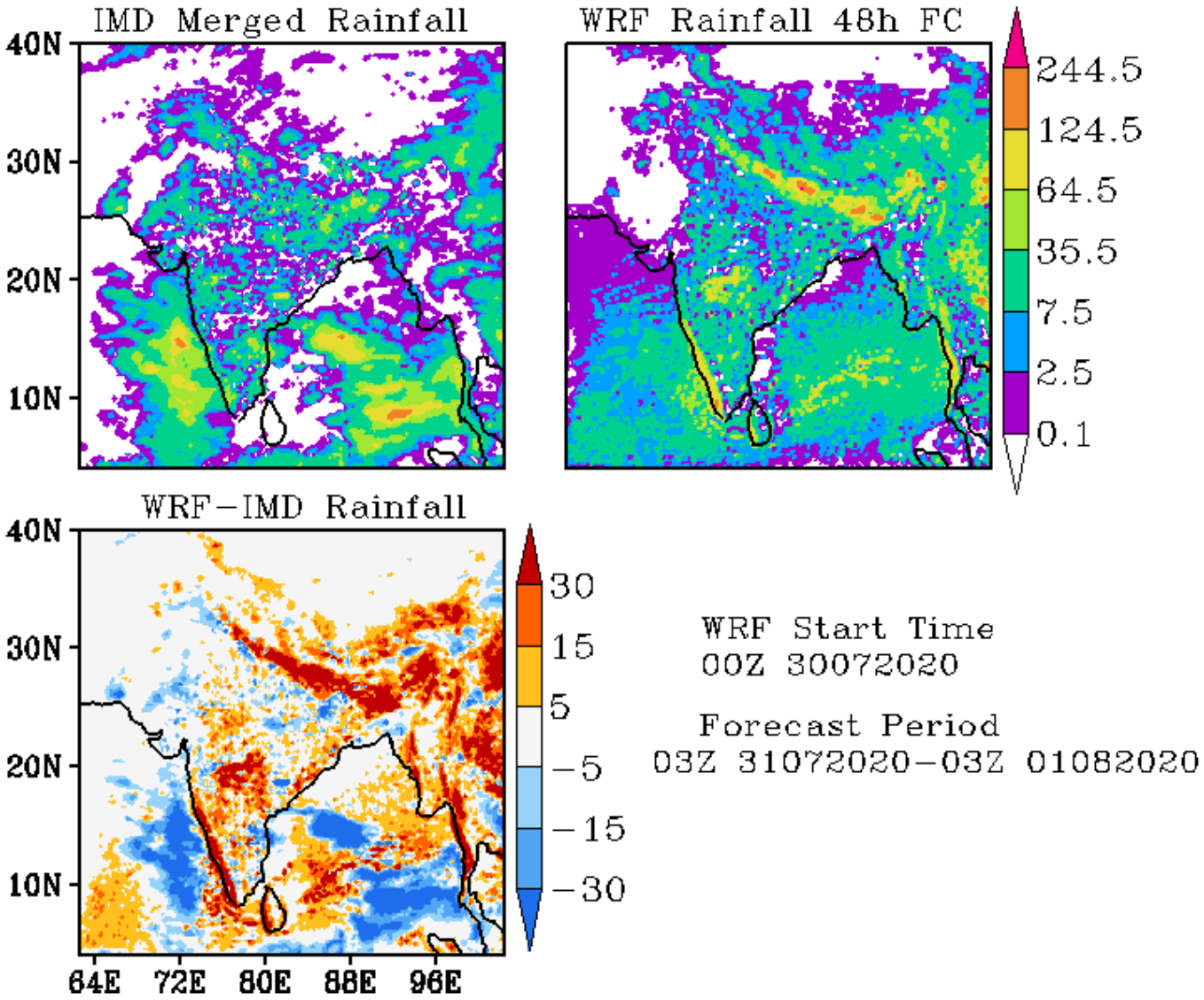
Forecast Period
03Z 30072020−03Z 31072020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WRF Rainfall 48h FC
244.5
124.5
64.5
35.5
7.5
2.5
0.1
WRF−IMD Rainfall
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−5
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40N
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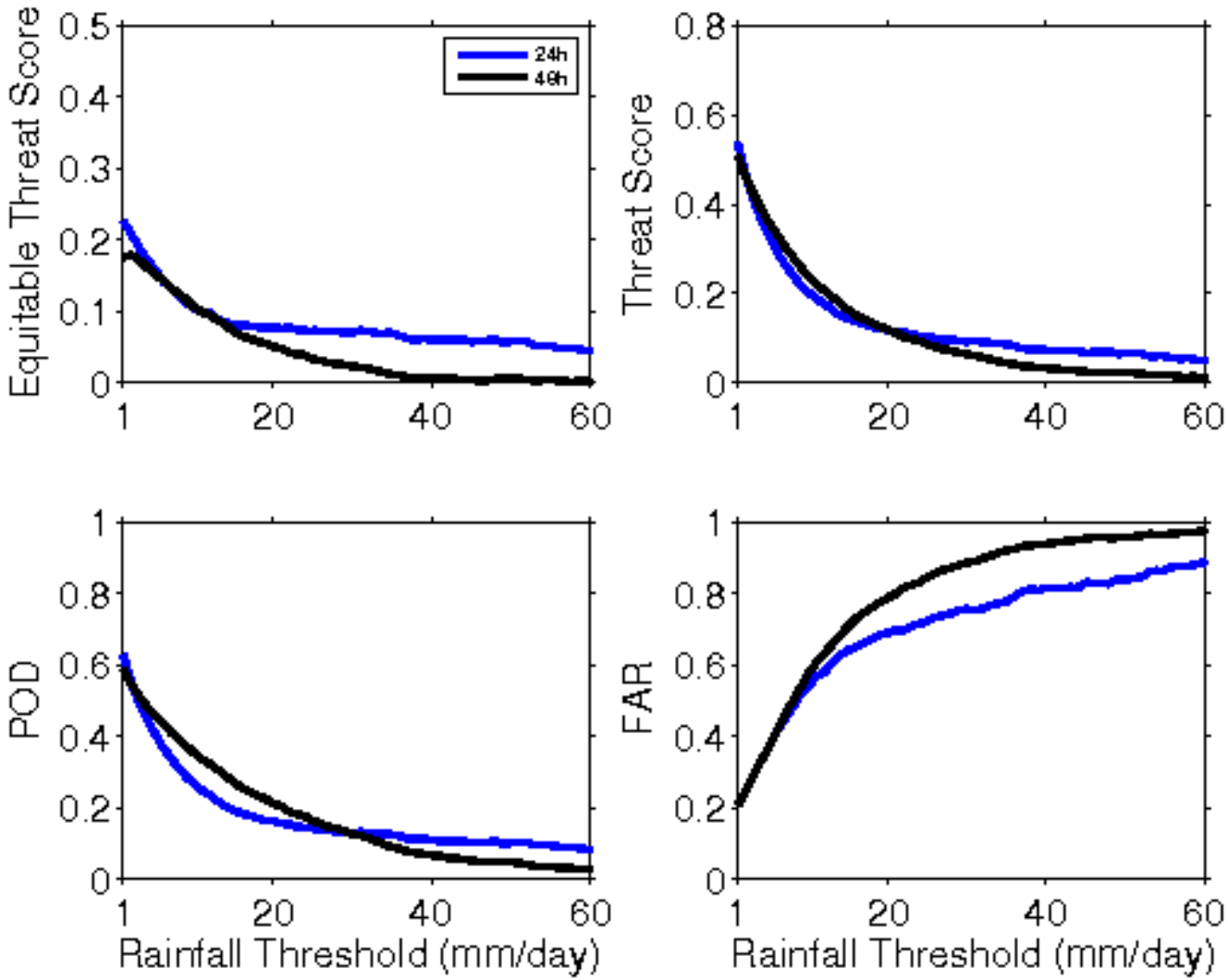
WRF Start Time
00Z 30072020
Forecast Period
03Z 31072020−03Z 01082020


Equitable Threat Score
0.5
0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
POD
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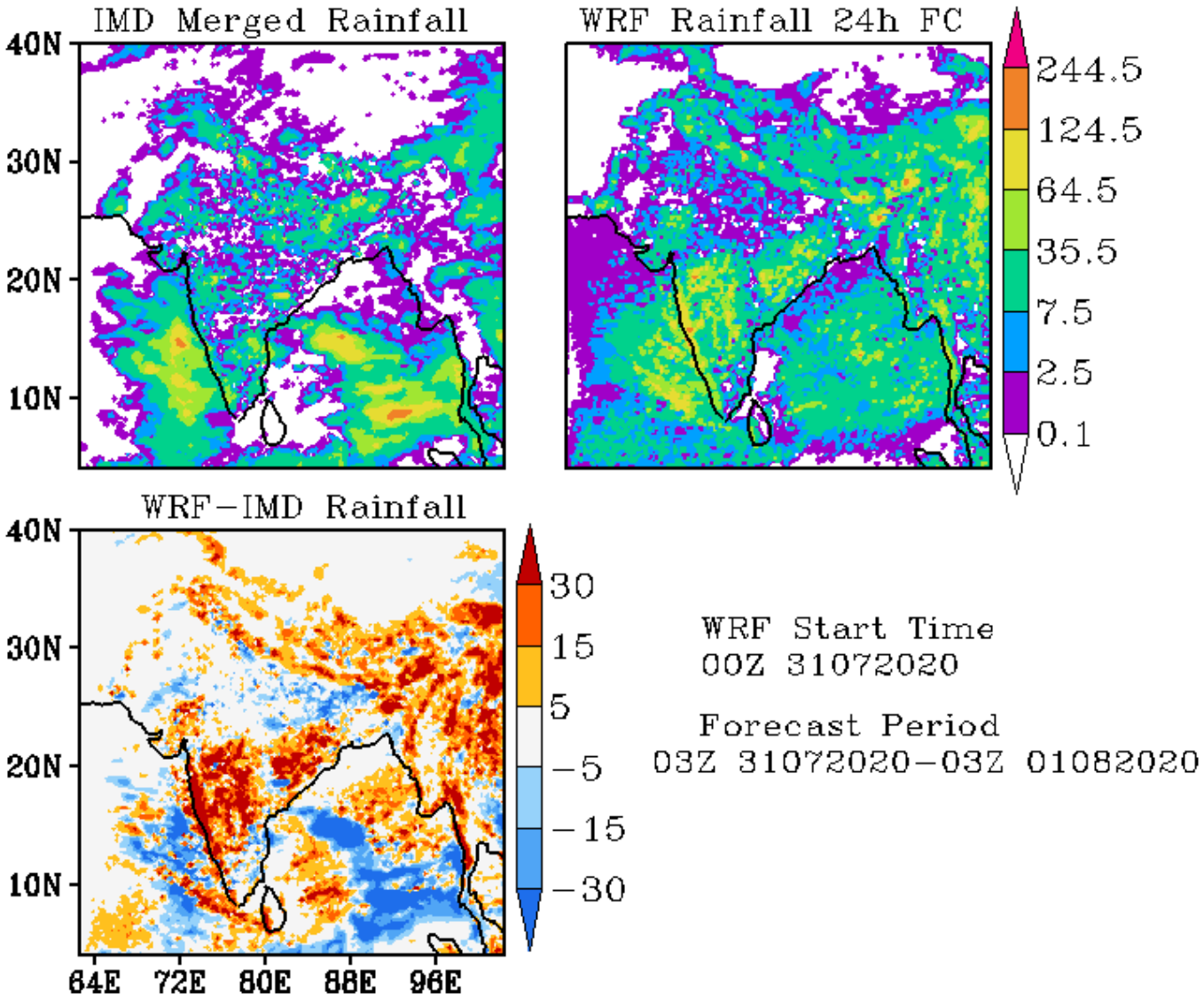
0.8
0.6
0.4
0.2
0
Rainfall Threshold (mm/day)
FAR
Rainfall Threshold (mm/day)


IMD Merged Rainfall
WRF Rainfall 24h FC
244.5
124.5
64.5
35.5
7.5
2.5
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WRF−IMD Rainfall
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5
−5
−15
−30
40N
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10N
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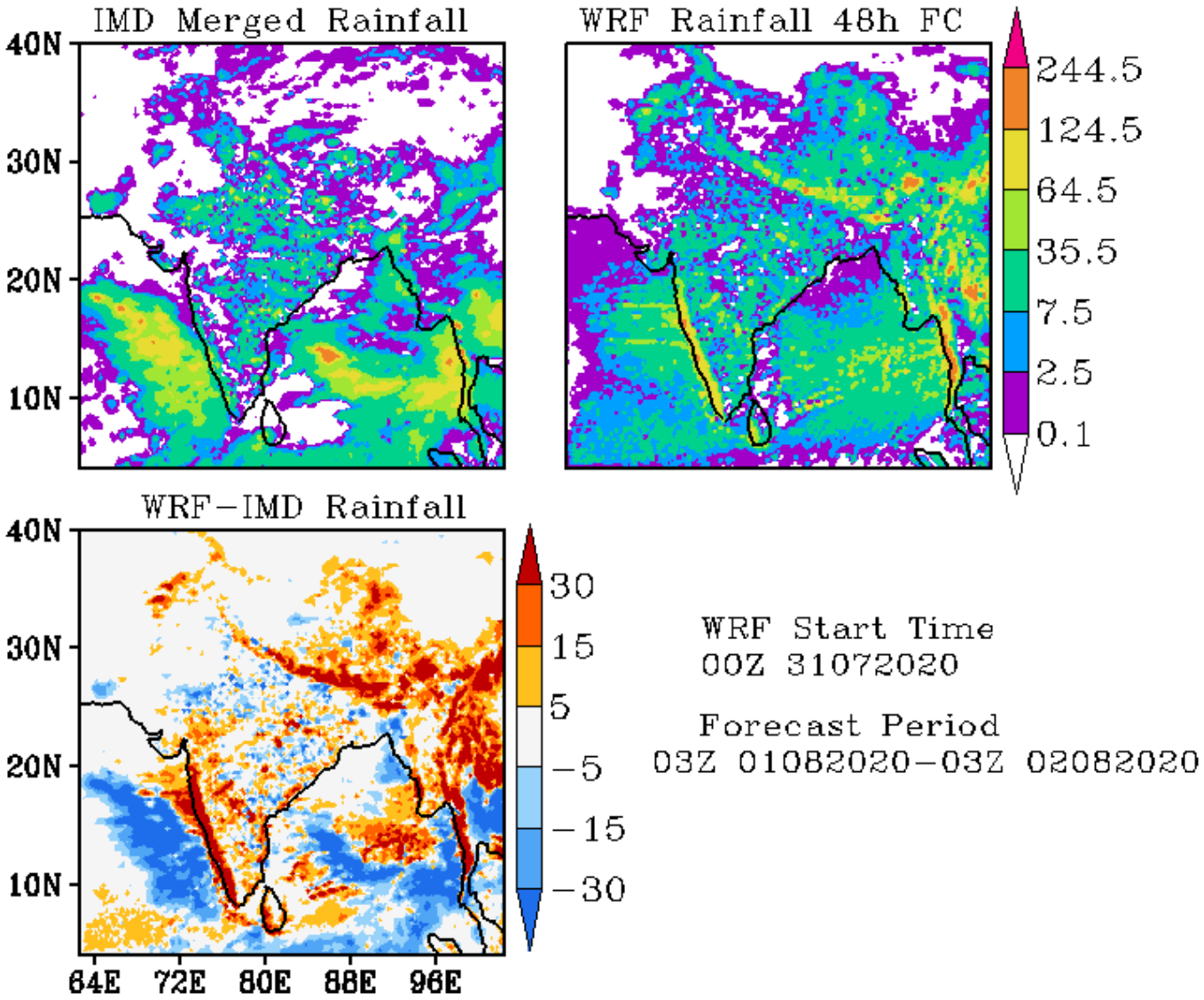
72E
80E
88E
96E
WRF Start Time
00Z 31072020
Forecast Period
03Z 31072020−03Z 01082020


IMD Merged Rainfall
WRF Rainfall 48h FC
WRF−IMD Rainfall
40N
30N
20N
10N
64E
72E
80E
88E
96E
244.5
124.5
64.5
35.5
7.5
2.5
0.1
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15
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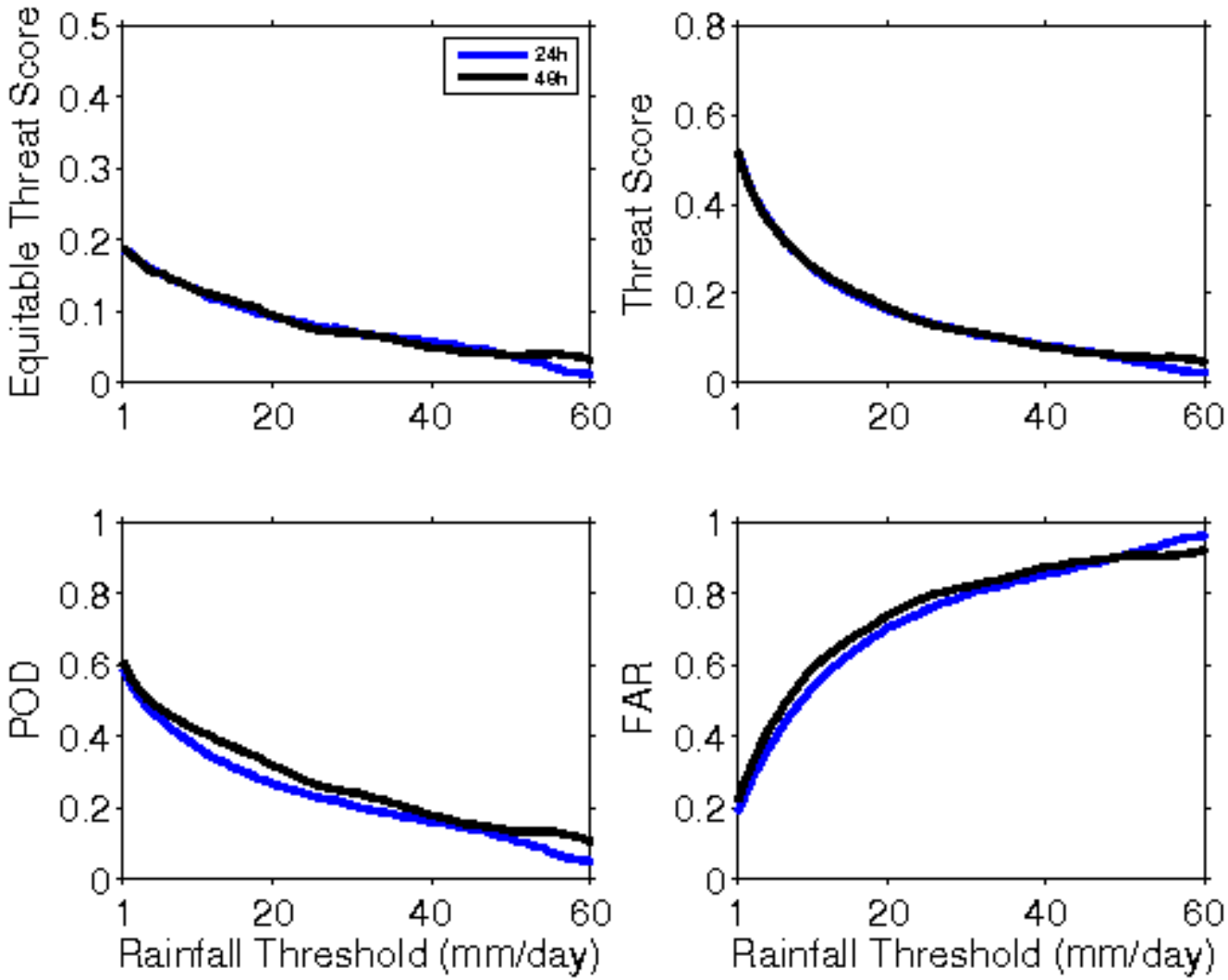
−5
−15
−30
WRF Start Time
00Z 31072020
Forecast Period
03Z 01082020−03Z 02082020


Equitable Threat Score
0.5
0.4
0.3
0.2
0.1
0
24h
48h
1
20
40
60
Threat Score
0.8
0.6
0.4
0.2
0
1
20
40
60
POD
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)
FAR
1
0.8
0.6
0.4
0.2
0
1
20
40
60
Rainfall Threshold (mm/day)