(a) IMERG (Reference)

(b) ICON (10 km)

(c) ICON (40 km)

(d) ICON (80 km)

20°N
0°
20°S
40°S
120°W
60°W
0°
60°E
120°E

Precipitation (mm day^{-1})
16
14
12
10
8
6
4
2
0

(e) Spatial Correlation Across All Reference Datasets

Spatial Correlation (r)
0.85
0.80
0.75
0.70
0.65
0.60
0.55
0.50
IMERG
MSWEP
ERA5
CMORPH
CPC
GPCC

(f) RMSE Across All Reference Datasets

RMSE (mm day^{-1})
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
ICON (10 km)
ICON (40 km)
ICON (80 km)
IMERG
MSWEP
ERA5
CMORPH
CPC
GPCC