Supplement of

A 20-year satellite-reanalysis-based climatology of extreme precipitation characteristics over the Sinai Peninsula

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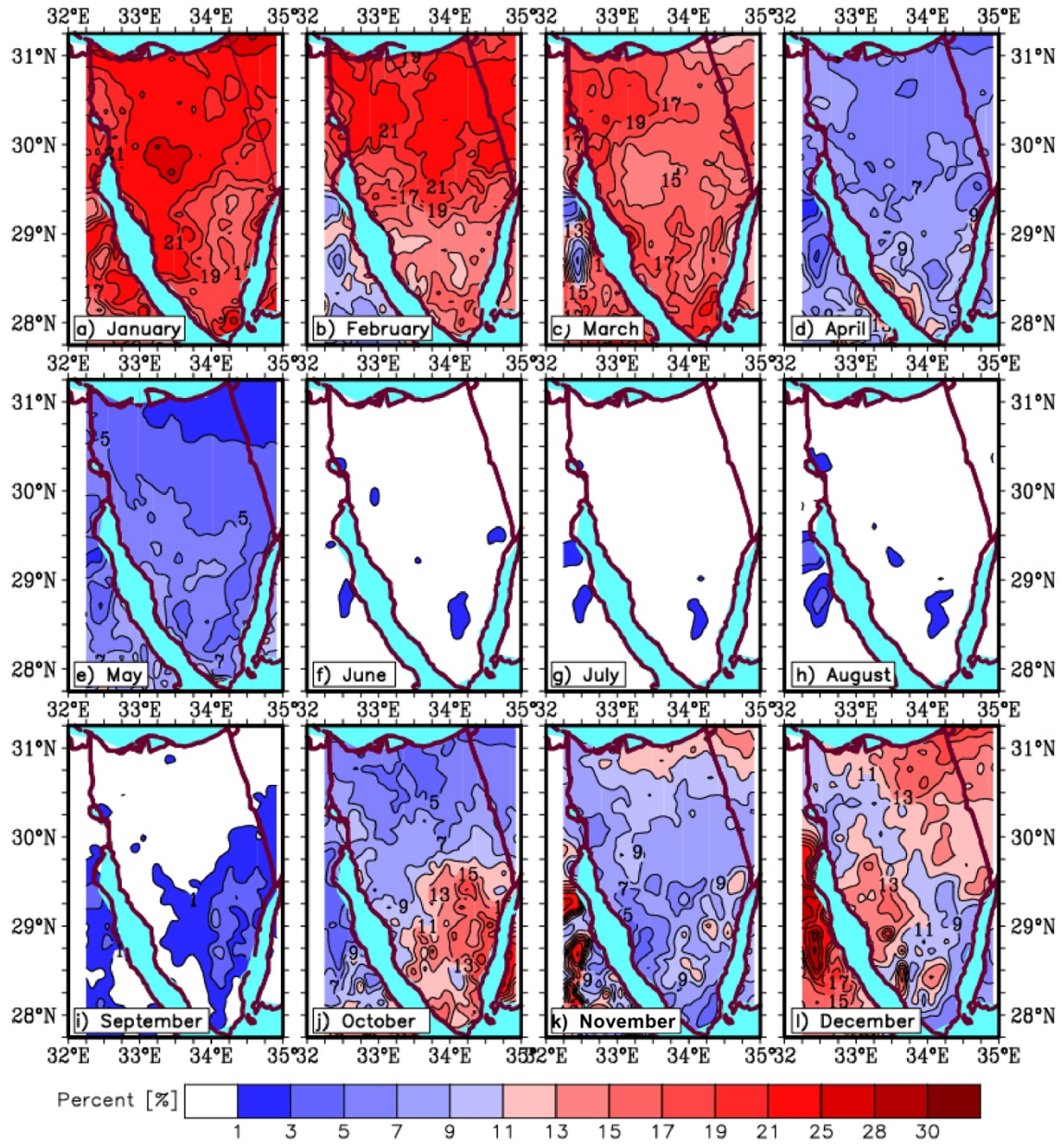
Figure S1. Monthly precipitation regime: the ratios of monthly sum precipitation to the annual total precipitation (%) in the Sinai Peninsula for the climatology period of 2001-2020. Units are in percentage.
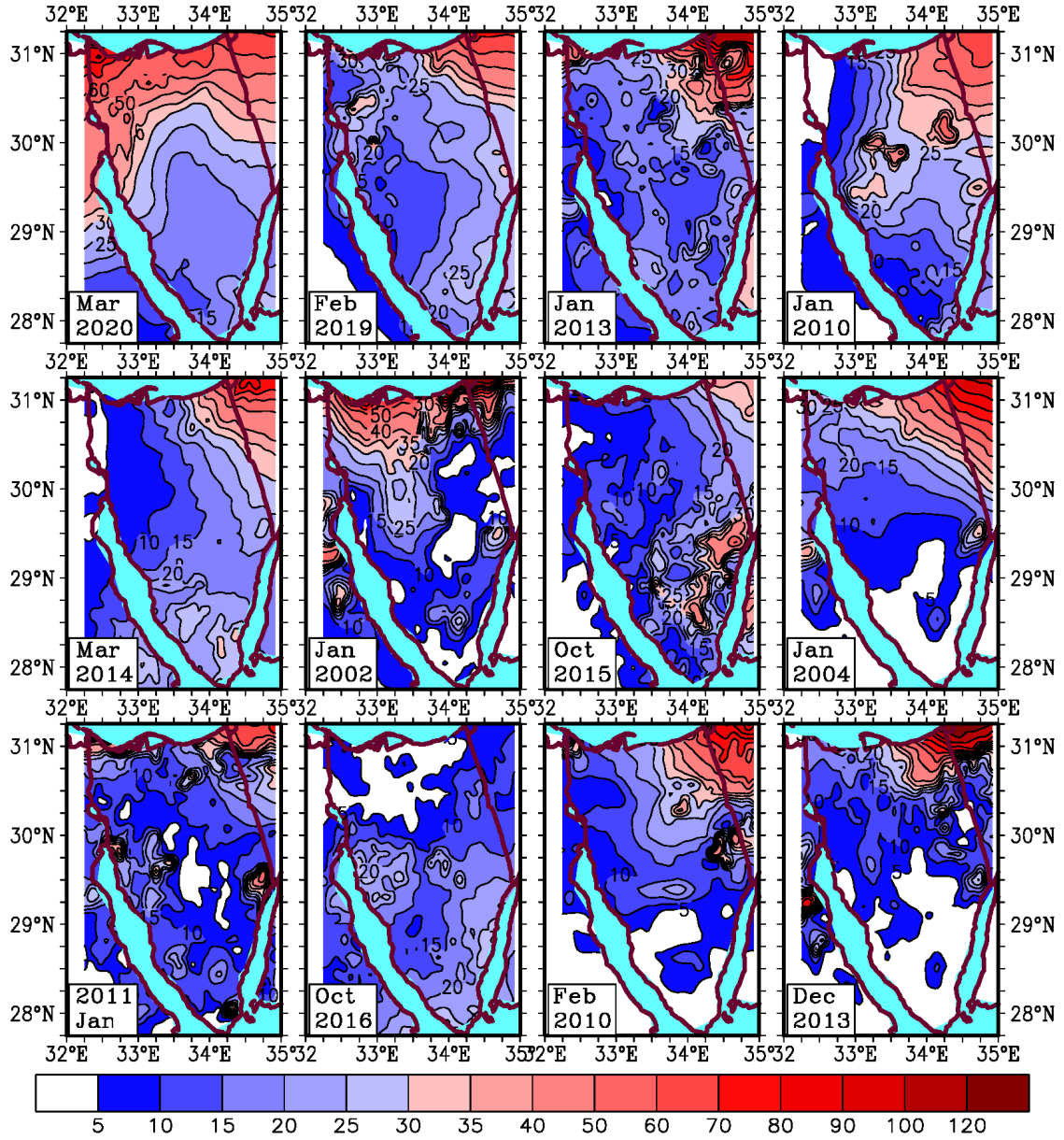
Figure S2. The twelve wettest months (out of 240 months) in the Sinai Peninsula for the climatology period of 2001-2020. The panels are ranked in order from top-left to button-right. Units are in mm.
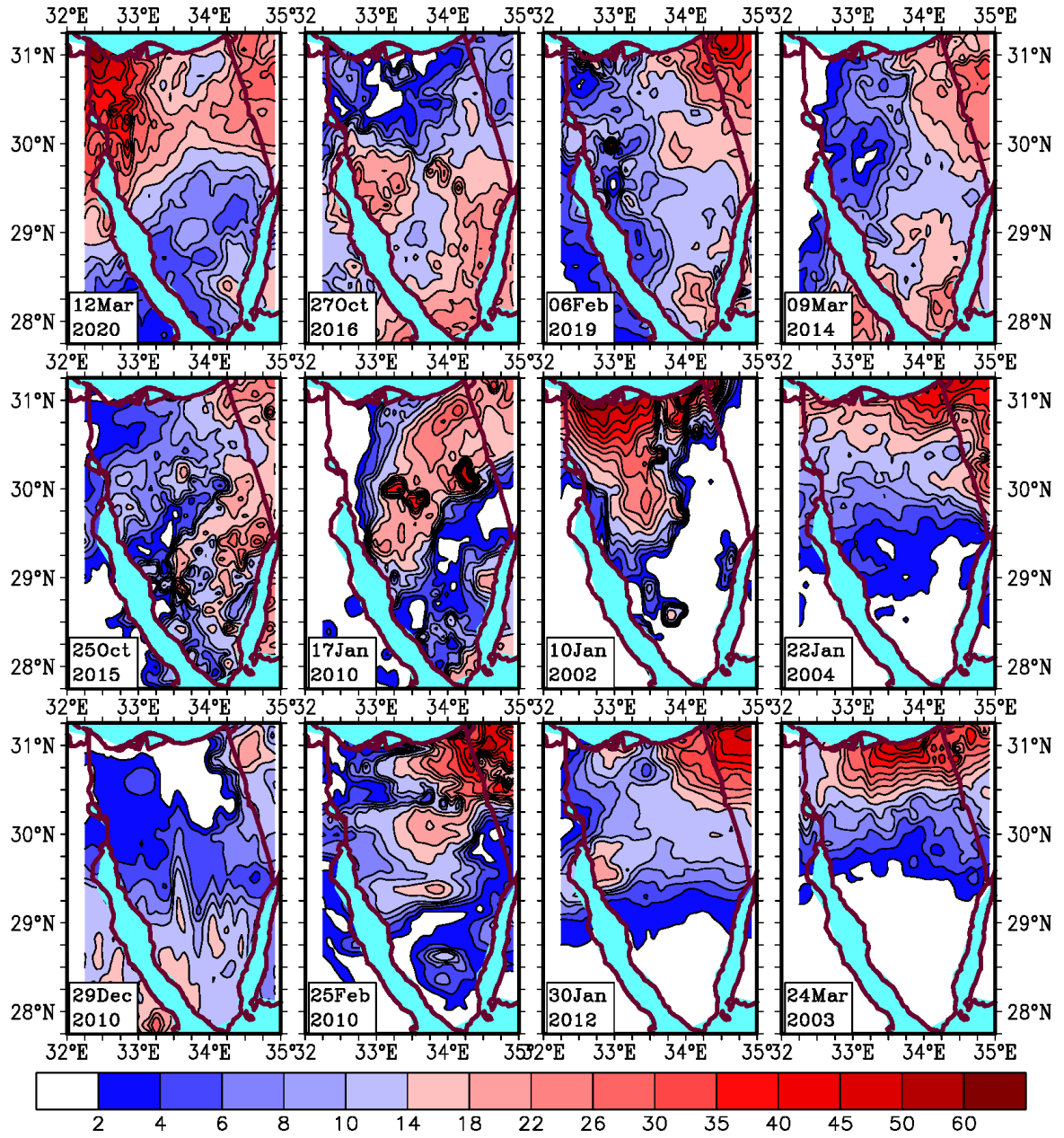
Figure S3. The twelve wettest days (out of 7305 days) in the Sinai Peninsula for the climatology period of 2001-2020. The panels are ranked in order from top-left to button-right. Units are in mm.
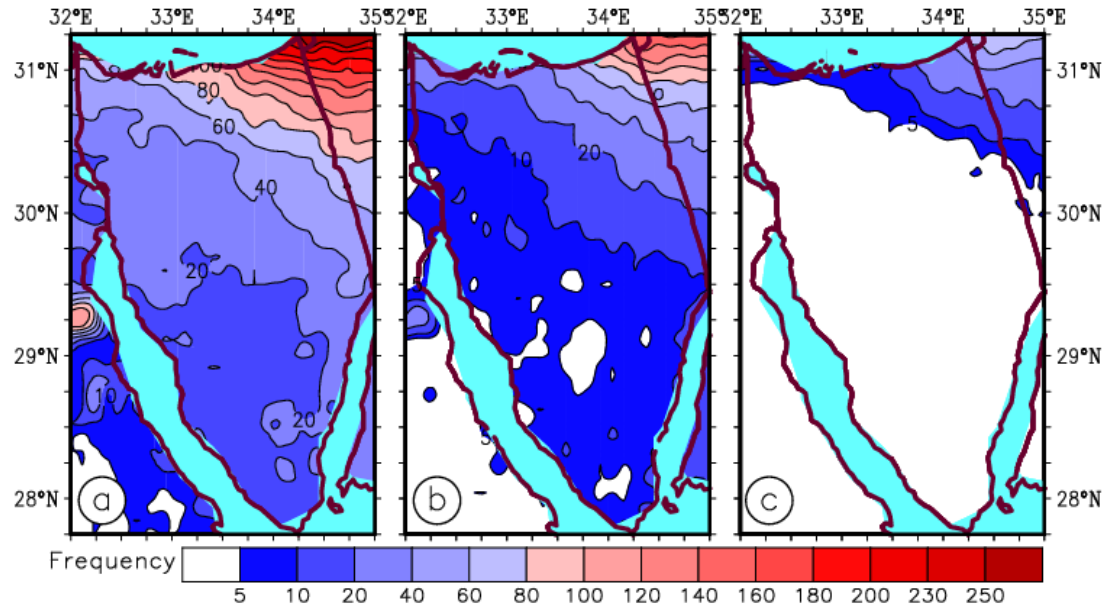
Figure S4. Frequency occurrence of the precipitation events with thresholds of a) ≥5mm/day, b) ≥10mm/day and c) ≥20mm/day in the Sinai Peninsula for the climatology period of 2001-2020. Units are in days.
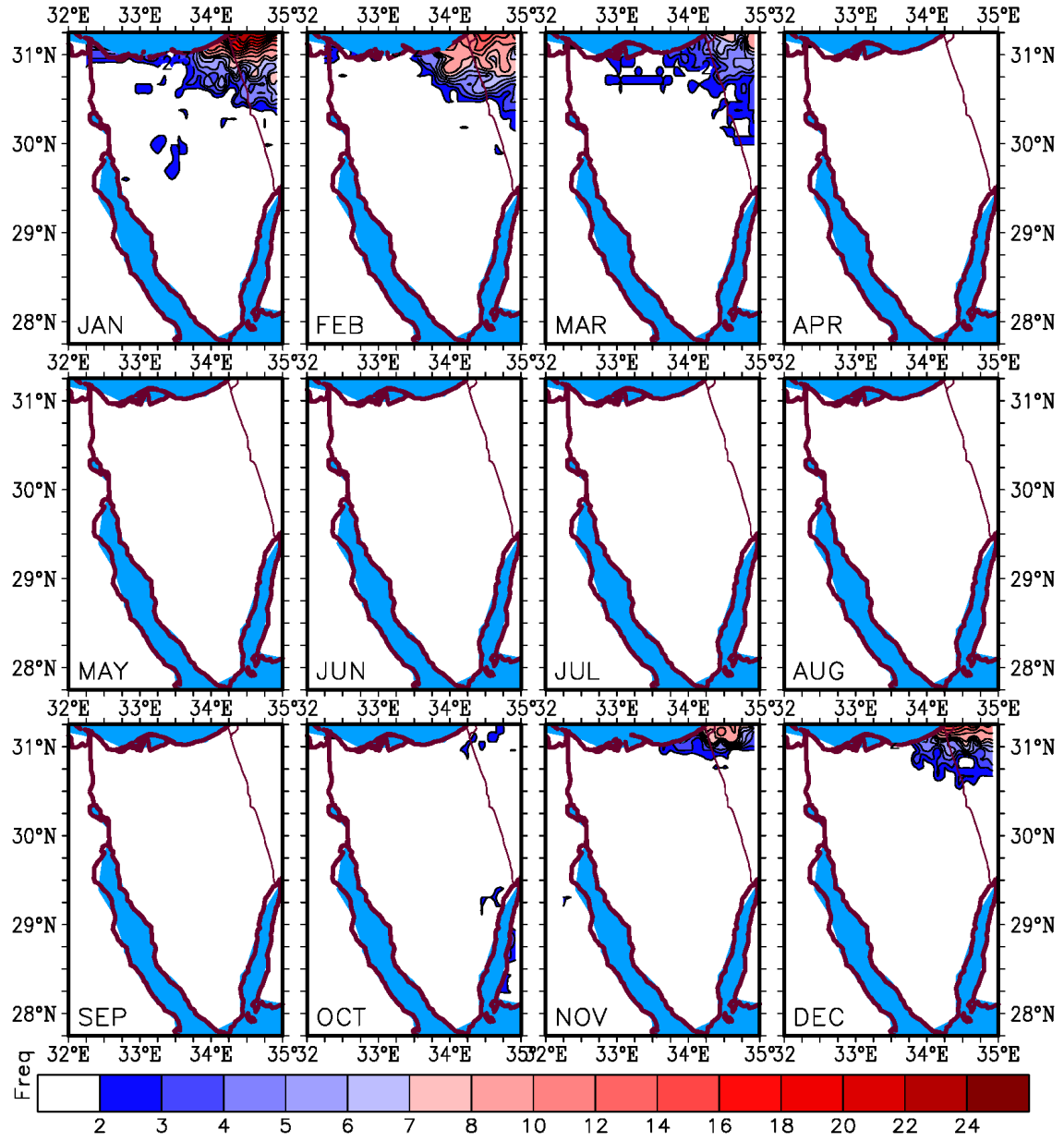
Figure S5. Frequency occurrence of the monthly precipitation events with a threshold of ≥20 mm/day in the Sinai Peninsula for the climatology period of 2001-2020 (7305 days). Units are in days.
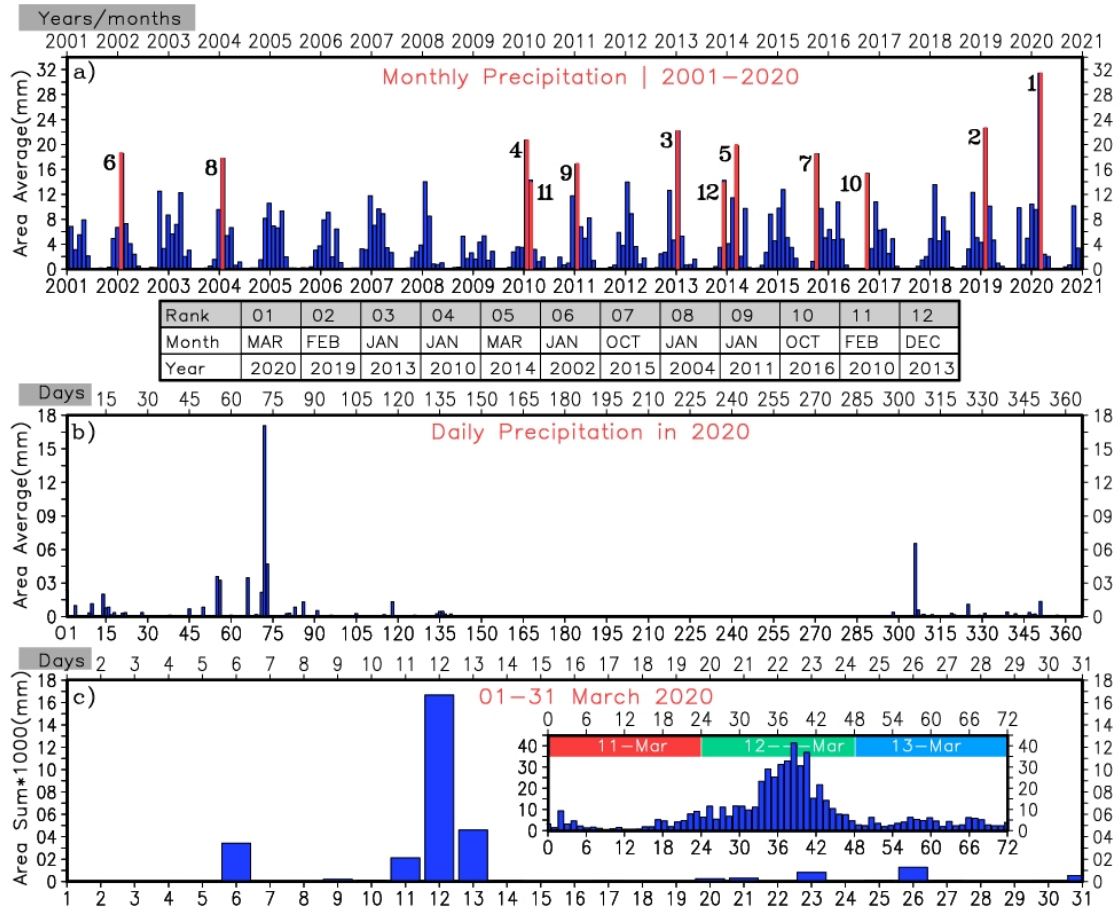
Figure S6. The regional averaged precipitation amounts over the of Sinai Peninsula: a) areal averaged monthly precipitation timeseries for the climatology period of 2001-2020 (240 months), and the table ranks 12 months/years with the highest rainfall received over the past two decades; b) daily precipitation timeseries in 2020; c) daily precipitation of the period 1-31 March 2020, and the subplot indicates the rainfall event of 11-13 March in hourly interval.
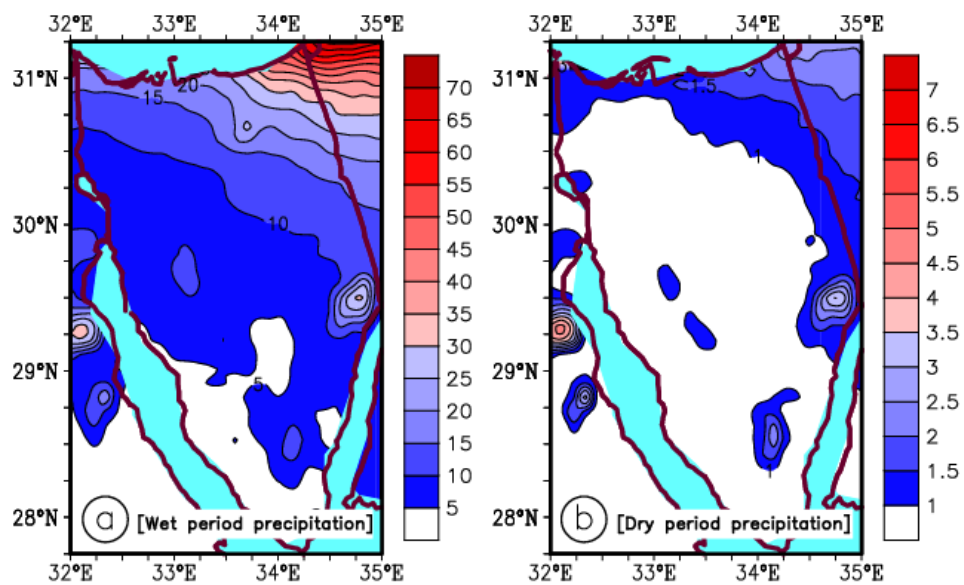
Figure S7. Mean monthly precipitation (mm/month) for: (a) wet period from October to March, and (b) dry period from April to September in the Sinai Peninsula for the climatology period of 2001-2020. Units are in mm.