

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 151

Country: Kiribati

TABLE 1: Monthly Rainfall

| Station (include data period) | Jan-2020 | Feb-2020 | Mar-2020 | | | | |
|-------------------------------|------------|------------|---------------|---------|---------|--------|-------|
| | | | Total (mm) | 33%tile | 67%tile | Median | Rank |
| | Total (mm) | Total (mm) | Rainfall (mm) | | | | |
| Beru (1932-2020) | 346.5 | 442.1 | | 26.3 | 150.0 | 69.5 | |
| Butaritari (1931-2020) | 301.2 | 544.0 | 413.6 | 186.9 | 402.0 | 281.0 | 57/82 |
| Kanton (1937-2020) | | 158.4 | 70.5 | 20.2 | 65.7 | 40.0 | 45/62 |
| Kiritimati (1921-2020) | 3.4 | 114.6 | 93.4 | 74.9 | 152.0 | 96.5 | 43/96 |
| Tarawa (1950-2020) | 393.6 | 384.1 | 515.7 | 113.7 | 270.9 | 178.9 | 67/71 |

TABLE 2: Three-month Rainfall for January to March 2020

| Station | Three-month Total | | 33%tile | 67%tile | Median | Rank | SCOPIC forecast probabilities based on NINO3.4 October-November 2019 | | | | Verification: Consistent, Near-consistent, Inconsistent? |
|------------------------|-------------------|--------------|---------|---------|--------|-------|---|----|-----|------|---|
| | Rainfall (mm) | | | | | | B-N | N | A-N | LEPS | |
| Beru (1932-2020) | | | 138.7 | 502.0 | 292.3 | | 8 | 36 | 56 | 35 | |
| Butaritari (1931-2020) | 1258.8 | Above normal | 698.3 | 1121.7 | 856.0 | 65/81 | 19 | 37 | 44 | 15 | Consistent |
| Kanton (1937-2020) | | | 54.6 | 202.0 | 111.9 | | 15 | 26 | 59 | 34 | |
| Kiritimati (1921-2020) | 211.4 | Normal | 113.2 | 300.7 | 201.8 | 43/94 | 16 | 27 | 57 | 36 | Near-consistent |
| Tarawa (1950-2020) | 1293.4 | Above normal | 348.3 | 945.9 | 688.1 | 64/71 | 13 | 37 | 50 | 30 | Consistent |

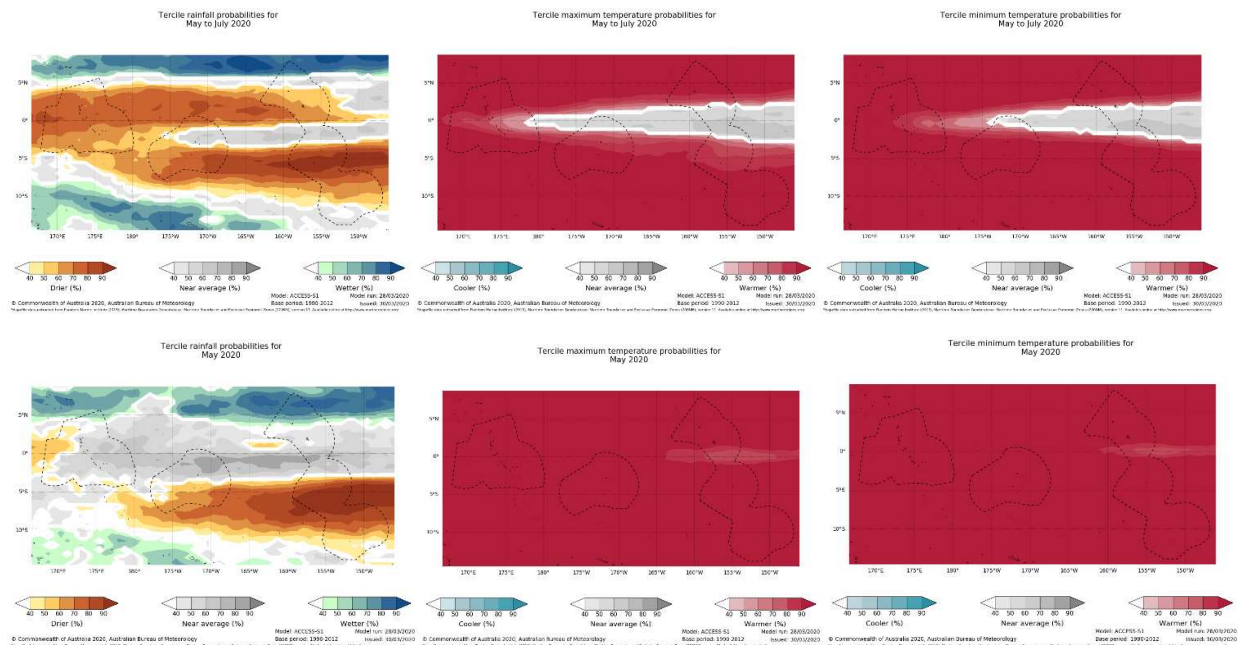
TABLE 3: Seasonal Climate Outlooks using SCOPIC for May to July 2020

Predictor and Period used: NINO3.4 for February to March 2020

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS (%) [whole numbers] | Hit-rate (%) [whole numbers] |
|------------------------|---------------------------|----------------------------|---------------------------|--|--------------------------------|------------------------------------|
| Beru (1932-2020) | 42 | 240.1 | 59 | | 5 | 58 |
| Butaritari (1931-2020) | 45 | 807.0 | 55 | | 1 | 60 |
| Kanton (1937-2020) | 42 | 221.9 | 59 | | 6 | 59 |
| Kiritimati (1921-2020) | 43 | 184.5 | 57 | | 4 | 56 |
| Tarawa (1950-2020) | 42 | 403.0 | 58 | | 6 | 59 |

| Station | Below Normal (prob) | 33%ile Rainfall (mm) | Normal (prob) | 67%ile Rainfall (mm) | Above Normal (prob) | LEPS (%) [whole numbers] | Hit-rate (%) [whole numbers] |
|------------------------|---------------------------|----------------------------|------------------|----------------------------|---------------------------|--------------------------------|------------------------------------|
| Beru (1932-2020) | 29 | 179.0 | 30 | 294.2 | 41 | 8 | 39 |
| Butaritari (1931-2020) | 29 | 684.3 | 34 | 881.0 | 38 | 1 | 45 |
| Kanton (1937-2020) | 34 | 189.5 | 28 | 276.9 | 38 | 0 | 35 |
| Kiritimati (1921-2020) | 32 | 128.0 | 30 | 251.7 | 39 | 1 | 37 |
| Tarawa (1950-2020) | 25 | 332.4 | 36 | 510.9 | 39 | 5 | 39 |

Monthly and Seasonal Climate Outlooks using ACCESS-S for May to July 2020



Summary Statements

Rainfall for March 2020:

Butaritari, Kanton and Tarawa recorded above normal rainfall for March, while normal rainfall was recorded at Kiritimati.

Tarawa had its fifth wettest March on record.

Accumulated rainfall for January to March 2020, including outlook verification:

Above normal rainfall was recorded at Butaritari and Tarawa with consistent verification outlook for the period of January to March. However, Kiritimati recorded normal rainfall with near-consistent verification.

Tarawa recorded its eighth wettest January to March on record.

Outlooks for May to July 2020:

1. SCOPIC:

The outlook for Beru shows above normal as the most likely outcome, with normal the next most likely. Below normal is the least likely.

The outlook for Tarawa shows a near-equal likelihood of above-normal rainfall and normal rainfall. Below normal is the least likely.

For Butaritari, Kanton and Kiritimati the outlook offers little guidance as the chances of below normal, normal and above normal rainfall are similar.

Forecast skill for Beru and Tarawa is low, while it is moderate at Butaritari, Kanton and Kiritimati.

2. ACCESS-S:

Seasonal rainfall:

Drier than average is favoured for Beru, Butaritari, Kiritimati and Tarawa. The outlook for Kanton shows that near average rainfall is more favoured.

Seasonal maximum temperature:

Warmer maximum temperature is favoured for Beru, Butaritari, Kanton and Tarawa. For Kiritimati, the outlook offers little guidance as the chances of cooler, near average and warmer are similar.

Seasonal minimum temperature:

Beru, Butaritari, Kanton and Tarawa are favoured warmer minimum temperature. However, Kiritimati shows that the outlook offers little guidance as the chances of cooler, near average and warmer are similar.

Monthly rainfall:

Near average rainfall is favoured for Beru, Kanton, Kiritimati and Tarawa. For Butaritari, the outlook offers little guidance as the chances of cooler, near average and warmer are similar.

Monthly maximum temperature:

Warmer maximum temperature is favoured for all stations.

Monthly minimum temperature:

Warmer minimum temperature is favoured at Beru, Butaritari, Kanton, Kiritimati and Tarawa.

NB: The X LEPS % score has been categorised as follows:

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

Moderate $5 \leq X < 10$

Good: $10 \leq X < 15$

High: $15 \leq X < 25$

Table: 5 Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

| Product | Date: March 2020 | Stakeholder | Total Number of Participants | Number of male | Number of female |
|---------------------|------------------------|---|---------------------------------|-------------------|---------------------|
| Climate Bulletin | 11 th March | Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, SPREP, General Public and internal staffs. | +118 | +45 | +73 |
| EAR Watch | 11 th March | Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, SPREP, General Public and internal staffs. | +118 | +45 | +73 |
| Media Release | 12 th March | Media Colleagues- Government and Non- Government entities. And Internal staffs. | 43 | 28 | 15 |
| Ocean Bulletin | 11 th March | Government Sectors, Non- Government Organisations, Fisheries (coastal and offshore) Sector, SPREP, General Public and internal staffs. | +118 | +45 | +73 |
| Total | | | 161 | 73 | 88 |