



SOLOMON ISLANDS

MalaClim RAINFALL WATCH

July 2018



This Rainfall WATCH bulletin is based on the monthly Rainfall Tracking for October to December annually as an Early Warning System for Malaria transmission Risk on the North Guadalcanal using the MalaClim model.

Coming Up:

- Below normal Malaria transmission risk is predicted for North Guadalcanal for the period—January to June 2018.
- El Nino Southern Oscillation (ENSO) is at El Nino WATCH.
- No rainfall guidance is likely for North Guadalcanal region for the period—August to October 2018.

Malaria Rainfall WATCH Update

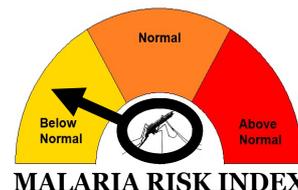
Northern Guadalcanal Malaria Early Warning System
OCTOBER—DECEMBER 2017 Rainfall Thresholds (mm) for Honiara

| | |
|--------------|--------------|
| LOWER | UPPER |
| 370 | 540 |

The rainfall received for the period **October to December 2017** was **635.4mm**. The amount is above the threshold of **540mm** and is consistent with the forecast for the period.

| HONIARA RAINFALL | | | | |
|------------------|------|-------|-------|--------------|
| Year | Oct | Nov | Dec | Total |
| 2016 | 65.3 | 391.3 | 209.6 | 666.2 |
| 2017 | 67.1 | 205.3 | 363.0 | 635.4 |

"Therefore; the Malaria transmission risk for the Northern Guadalcanal region for the period **January—June 2018** is expected to be **BELOW NORMAL** and the malaria cases expected for the period is likely to be below **3,261** cases.



El Nino Southern Oscillation (ENSO) Update

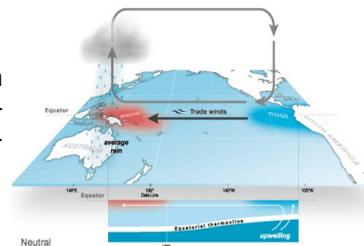
EI NINO—Associated with Below normal rainfall.

NEUTRAL—Associated with Normal rainfall.

LA NINA—Associated with Above normal rainfall.

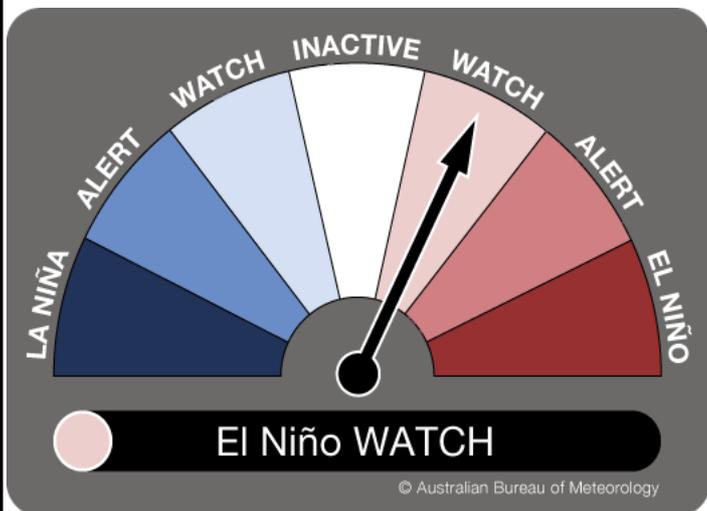
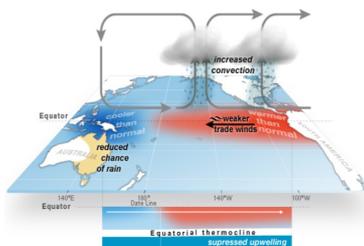
Current status:

The El Nino Southern Oscillation (ENSO) still remains **NEUTRAL** - neither El Nino nor La Nina condition.

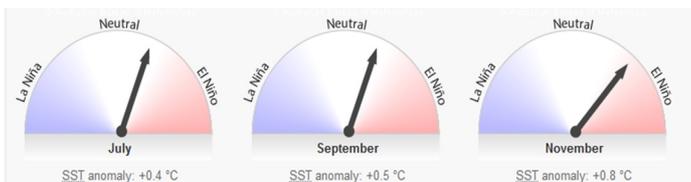


Outlook:

The ENSO **NEUTRAL**—normal condition will continue however; slowly warming in central Pacific ocean and may reach El Nino threshold between September and November 2018.



Source—Bureau of Meteorology (BOM), Australia, July 2018



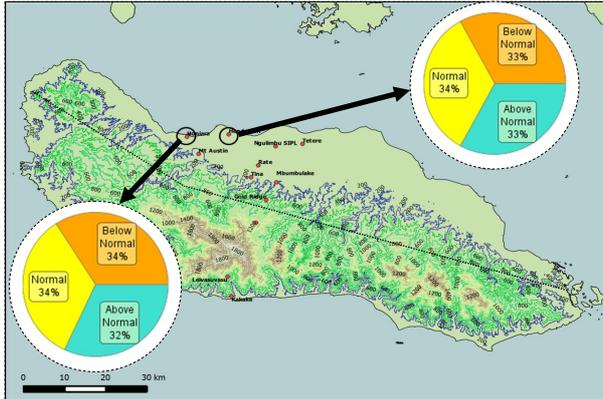
Source— BOM, ENSO model Outlook - July to November 2018

Northern Guadalcanal Rainfall Prediction—August to October 2018

HONIARA

| | | |
|--------------|-----------------------|-------------------|
| Above Normal | Rainfall Greater than | 359.8mm |
| Normal | Rainfall Between | 257.1 and 359.8mm |
| Below normal | Rainfall Less than | 257.1mm |

No rainfall guidance for Honiara for the period—August to October 2018.



HENDERSON

| | | |
|--------------|-----------------------|-------------------|
| Above Normal | Rainfall Greater than | 319.6mm |
| Normal | Rainfall Between | 246.6 and 319.6mm |
| Below normal | Rainfall Less than | 246.6mm |

No rainfall guidance for Henderson for the period—August to October 2018.

Neither ABOVE NORMAL, NORMAL or BELOW NORMAL rainfall is predicted for the period—August to October 2018 for north Guadalcanal region however; it must be noted that this is the dry season period which normally associated with normal to below normal rainfall in the northern region of Guadalcanal.

Observed Rainfall—April to June 2018

| STATIONS | TOTAL Rainfall (mm) | Forecasted Rainfall (mm) | Forecast Verification | 33% Rainfall (mm) | 66% Rainfall (mm) | Median Rainfall (mm) |
|-----------|---------------------|--------------------------|-----------------------|-------------------|-------------------|----------------------|
| Henderson | 343 | Above normal | Near consistent | 303 | 375 | 340 |
| Honiara | 368 | Above normal | Near consistent | 339 | 472 | 380 |

Above normal rainfall was predicted for both Henderson and Honiara for the period—April to June 2018.

Observed data shows that both Henderson and Honiara were inconsistent to their forecast both recorded normal rainfall.

Malaria case Verification—January to June 2017

The forecasted Malaria cases for the period—January to June 2017 was likely to be below normal with an expected cases of less than **3078** with the observed rainfall for the period—October to December 2016 of **666.2mm**—the rainfall amount falls above the threshold of **upper 540mm**.

As a result of malaria cases (data) received from the Vector Borne Disease Control Program, **928** cases has been reported for northern Guadalcanal for the period—January to June 2017. The result is consistent to the forecast—**below normal** malaria transmissions less than **3078 cases**.

Disclaimer:

The Rainfall WATCH Bulletin provided in this document is presented for the Health sector—Malaria (vector borne) operations. The information should be used as a guide only. Solomon Islands Meteorological Service takes all measures in providing accurate information however, it does not guarantee 100% accuracy of the forecast provided in this summary. The Vector borne operations should be consulted for expert advice, clarification and further information when necessary. The user take all risks resulting indirectly or directly from the use of the rainfall prediction information.

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