



# VANUATU CLIMATE UPDATE

Vanuatu Meteorology and Geo-Hazard Department

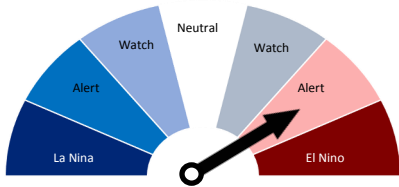


ISSUE 50

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## HIGHLIGHTS

### ENSO Outlook: El Nino Alert



### Renfol Aotluk Nekis Tri Manis

<b>Ovarol Long Vanuatu:</b>	Nomol mo bilou nomol renfol
<b>Noten Rijen:</b>	Nomol mo bilou nomol renfol
<b>Saoten Rijen:</b>	Nomol mo bilou nomol renfol

### Draot states (Las Tri manis)

<b>Nogat Droat:</b>	Pekoa, Lamap, Bauerfield, Port Vila, Whitegrass, Aneityum.
<b>Waj:</b>	Sola
<b>Woning:</b>	
<b>Draot:</b>	

### Coral Reef Watch

<b>No Stress:</b>	Torba, Sanma, Penama, Malampa, Shefa, Tafea
<b>Waj:</b>	
<b>Woning</b>	
<b>Alert Level 1:</b>	
<b>Alert Level 2:</b>	

### Pas Renfol (Octoba — Decemba 18)

<b>Abav nomol:</b>	Bauerfield and Port Vila
<b>Nomol:</b>	Sola, Pekoa, Lamap, Whitegrass, Aneityum.
<b>Bilou Nomol:</b>	

### Verifikeisen

<b>Near consistent:</b>	Sola, Pekoa, Lamap, Bauerfield, Aneityum.
<b>Consistent:</b>	Whitegrass
<b>Inconsistent:</b>	Port Vila

## KLAEMET AOTLUK FEB—APR 2019

### RENFOL FOKAST

Fokast blong manis Februari kasem April 2019.

**Overall Vanuatu:** Yumi sud expektem nomol mo bilou nomol renfol long ol tri manis we istap kam truaot long Vanuatu.

**Noten Rijen:** Long ol provins blong yumi long Not (Torba, Sanma, Malampa, mo Penama), fokast i showem renfol bae hemi

kasem bilou nomol long Sola mo Lamap. Renfol bae hemi nomol lo Pekoa.

**Confidence:** Low to moderate

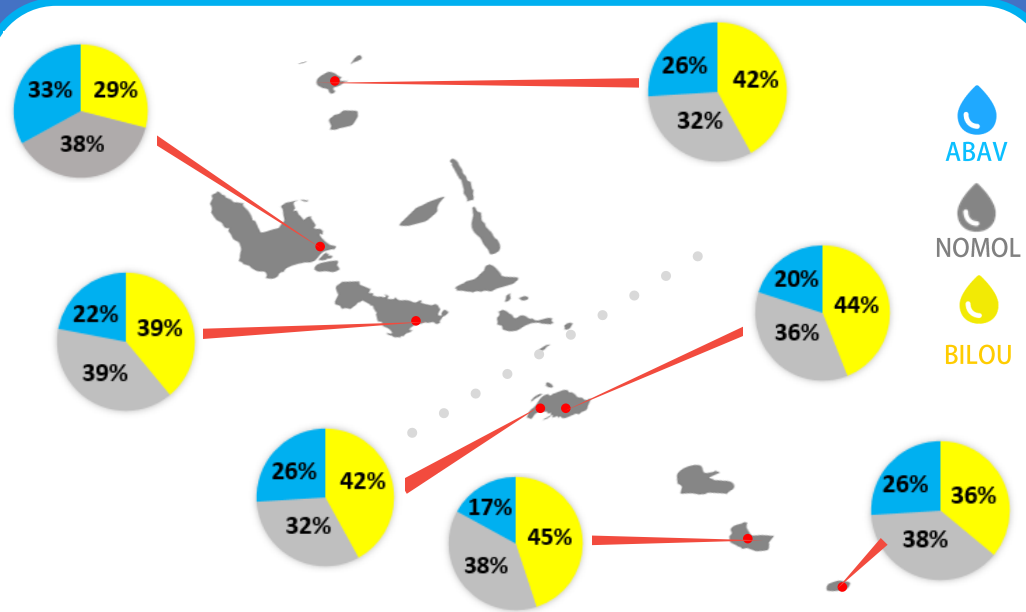
**Saoten Rijen:** Long ol provins blong yumi long Saot (Shefa mo Tafea) fokast I showem bilou nomol renfol long Bauerfield, Port Vila, mo Whitegrass. Renfol bae hemi nomol lo Aneityum.

**Confidence:** Low to moderate

**ENSO aotluk** i stap long El Nino ALERT

Bae yumi save kasem renfol kasem bilou nomol long next tri manis.

## 3 MANIS RENFOL AOTLUK



Rijen Station	Aotluk Hemi baias iko long	Bilou mm (probability)	Nomol mm (probability)	Abav mm (probability)
Sola	Bilou Nomol	<1048(42%)	1048 - 1323(32%)	>1323(26%)
Pekoa	Nomol	<739(29%)	739 - 953(38%)	>953(33%)
Lamap	Nomol - Bilou Nomol	<635(39%)	635 - 756(39%)	>756(22%)
Bauerfield	Bilou Nomol	<786(42%)	786 - 1000(32%)	>1000(26%)
Port Vila	Bilou Nomol	<771(44%)	771 - 922(36%)	>922(20%)
Whitegrass	Bilou Nomol	<422(45%)	422 - 587(38%)	>587(17%)
Aneityum	Nomol	<682(36%)	682 - 920(38%)	>920(26%)

## GENERAL LUK LUK

Ol samting we oli influensem klaemet blong Vanuatu.

**Southern Oscillation Index (SOI):** Latest 30 dei valiu blong hem since Januari 13<sup>th</sup> i stap long +2. SOI hemi stap long neutral range mo bae I save go daon moa.

**Tred Win:** Ol tred win oli stap long nomol lo Equatorial Pacific long Decemba. Long early Decemba ol tred win oli weaker than nomol.

**Tempereja Blong Solwota:** Ol tempereja blong solwota oli weak warm lo noten rijen, mo stap long nomol long saoten rijen blong Vanuatu.

**Ol Model Fokast:** Ol klaemet model we VMGD I stap usum oli soem se ENSO hemi stap long El Nino long nekis 3 manis.

**ENSO Event Aotluk:** VMGD I wantem infoem ol pipol long Vanuatu se I gat bigfala Janis se bae yumi save gat El Nino long end blong 2018 kasem beginning blong 2019. ENSO aotluk hemi El Nino ALERT.

**Coral Reef Watch:** Coral bleaching alert hemi stap long No Stres ova long Vanuatu nekis 4 wiks.



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## ENSO TERMS

**El Nino Southern Oscillation (ENSO):** Hemia hemi tokbaot saekol blong El Nino mo La Nina mo ifek we tufala igat long renfol blong yumi.

**El Nino:** Hemia hemi taem we ol tred win long



Pasifik oli lusum paoa blong olgeta mo ol wom wota oli mov igo long is. Long taem ia klaod nasara tu imuv wetem wom wota. Long Vanuatu wan El Nino hemi minim se bai renfol hemi go daon bitim nomol

**La Nina:** Hemia hemi taem we ol tred win long Pasifik oli kam



strong moa mo oli pusum ol wom wota igo long wes Pasifik mo muvum klaod nasara tu igo lo wes. Hemia hemi oposit blong El Nino. Long Vanuatu La Nina hemi minim se bai i gat renfol we i bitim nomol. Samtaem oli stap talem se La Nina hemi wan anti-ENSO (anti-El Nino Southern Oscillation) event.

**ENSO Situation Hemi Neutral:** Hemi taem we inogat wan El Nino o wan La Nina.

**SOI (Southern Oscillation Index):** Hemia hemi mesament blong difrens long ea presa bitwin Darwin (12° S, 131° E) mo Tahiti (17°S, 150° W). Taem difrens hemi stap bitwin +8 mo -8 hemia iminim se yumi stap long wan Neutral ENSO. Taem difrens hemi bitim +8 hemia iminim se atmosfera hemi stap long condisen blong La Nina mo bai yumi save kasem plante ren. Be sapos hemi bitim -8 hemia iminim se atmosfera hemi stap long condisen blong El nino mo bai ples hemi save drae.

**SST (Sea Surface Temperature):** Tempereja o hot blong solwota.

## GLOSSARY

**Baias Towards:** Taem model hemi soem se yumi usum probability blong calculetem se wanem probability nao hemi mo hae. Probability we hemi hae moa nao yumi usum olsem forecast blong yumi.

**Confidence:** Taem model hemi givem wan aotluk yumi usum confidence blong luk se fokast ia i save hapen o no. Hae confidens i minim se igat bigfala janis se fokast bai i hapen.

**Drae Sisen:** Hemi ol manis long evri yia we renfol i smol bitim ol narafala manis. Long Vanuatu drae sisen i stat long manis Mei kasem Oktoba. Drought: Taem we renfol long wan eria hemi go daon bitim averej renfol mo hemi stat blong afektem ol plant mo wota long graon, hemia oli talem se eria ia i stap long wan draot.

**Favoured:** Wanem nao com-puta hemi stap luk; se bae igat

**Fokfast:** Wan lukluk blong wanem bai I save hapen long fiuja. Wan narafala toktok we oli usum tu hemi "outlook". I gat weta fokast mo sisenal fokast. Klamet: Averej paten blong weta blong wan ples ova long wan longfala taem (eksambol 30 yia o moa).

**Probability:** Fasin blong calculetem se wanem nao janis blong wan event hemi happen. SCOPIC hemi wan probability model.

KLAEMET HEMI WANEM WE YU EXPECTEM BE WETA HEMI WANEM WE I HAPPEN O

**Abav nomol renfol:** Renfol we hemi bigwan bitim averej renfol blong manis ia long wan station.



**Nomol renfol:** Renfol we i kasem averej amaon we yumi stap kasem oltaem blong manis ia.

**Bilou nomol renfol:** Renfol we i go daon tumas bitim averej

renfol blong manis ia.

**Sisenal Fokfast:** Hemi lukluk long wanem kaem kondisen nao bai i save happen long ol manis we oli stap kam folem ol kondisen blong solwota mo ea (eksambol hemi renfol).

**Verification:** Hemia wei blong checkem se renfol we yumi kasem long trifala manis we i pas hemi semak long wanem we yumi bin forecastem o no.

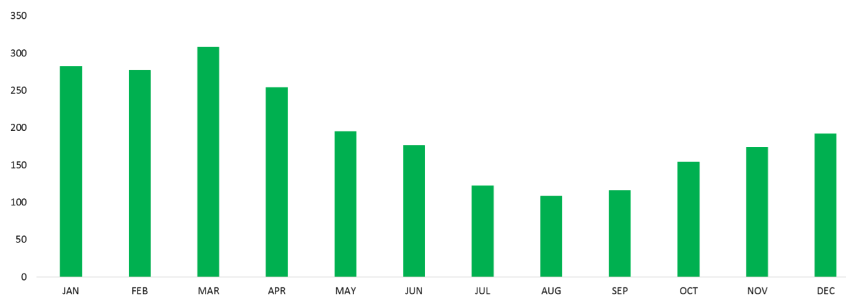
**Weta:** Kondisen blong ea olsem temperaja, renfol, spid blong win, long wan sot taem olsem samfala hour kasem samfala dei. Weta i jenis long evri dei mo ol jenis ia hemi isi blong yumi luk.

**Weta Fokast:** Hemi wan lukluk we yumi save expectem long wanem weta nao bai yumi save kasem nekis 2 wik.

**Wet Sisen:** (taem blong ren): Hemi ol manis long wan yia we yumi stap kasem tumas ren bitim ol narafala manis. Long Vanuatu taem blong ren hemi stap long Novemba kasem Epril

## HISOTORICAL RENFOL FOR ALL STATIONS IN VANUATU

MONTHLY AVERAGE RENFOL (MM) - BASED ON 30 YEARS OF DATA



STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL ANNUAL
Sola	395	361	417	443	385	312	246	323	270	376	373	355	4165
Pekoa	297	309	276	270	195	201	119	98	105	177	201	200	2448
Lamap	255	245	278	218	166	145	116	82	90	137	139	148	2019
Bauerfield	284	325	316	247	188	173	86	83	87	111	156	176	2232
Port Vila	274	209	319	233	170	154	103	92	91	107	141	183	2076
Whitegrass	175	199	198	124	88	87	59	54	60	58	71	90	1263
Aneitym	293	291	355	245	175	161	129	117	112	114	139	191	2322
Vanuatu	282	277	308	254	195	176	122	108	116	154	174	192	2358

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