



VANUATU CLIMATE UPDATE

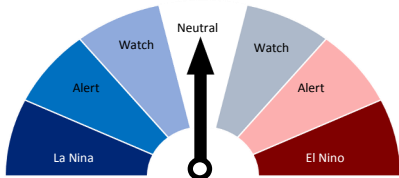
Vanuatu Meteorology and Geo-Hazard Department



ISSUE 57
August 2019

HIGHLIGHTS

ENSO Outlook: Neutral



Renfol Aotluk Nekis Tri Manis: Sep-Nov 2019

Ovarol Long Vanuatu:	Bilou nomo renfol
Noten Rijen:	Bilou nomol renfol
Saoten Rijen:	Bilou nomol renfol

Draot states: Las tri manis (May — Jul 2019)

Nogat Droat:	Sola
Waj:	
Woning:	
Draot:	Pekoa, Bauerfield, Whitegrass

Coral Reef Alert: 12 August 2019

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

Pas Renfol: Las tri manis (Apr—Jun 2019)

Abav nomol:	Aneityum
Nomol:	
Bilou Nomol:	Pekoa, Bauerfield, Whitegrass

Verifikeisen

Near consistent:	Aneityum
Consistent:	Pekoa, Bauerfield, Whitegrass
Inconsistent:	

KLAEMET AOTLUK Sep – Nov 2019

RENFOL FOKAST

Fokast blong manis Septemba kasem Novemba 2019.

Overall Vanuatu: Vanuatu hemi stap long nomol drae sisen blong hem, mo olsem everi yia, manis Okis mo Septemba hemi tufala draest manis long wan yia. Lukluk istap se long nekis tri manis, bae yumi save experiensem renfol we hemi bilou long nomol tru aot long kaontri.

Noten Rijen: Long ol station blong yumi long not (Sola, Pekoa mo Lamap), fokus I shoem bilou nomo renfol.

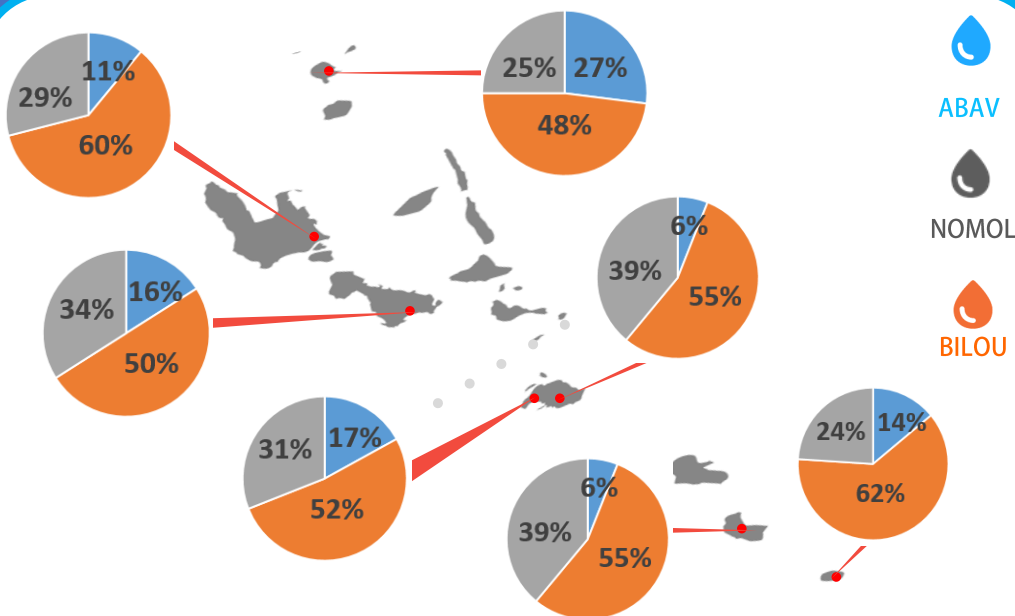
Confidence: Moderate to Good

Saoten Rijen: Fokas istap shoem se long ol station blong yumi long saot (Bauerfield, Port Vila, Whitegrass mo Aneityum), bae yumi experiensem renfol we hemi bilou long nomol.

Confidence: Good to moderate

El Niño Southern Oscillation (ENSO) istap long neutral. Hemia I minim se inogat wan El Nino o La Nina. Janis blo gat wan El Nino, o bigfala drae taem, long 2019 I pas.

3 MANIS RENFOL AOTLUK



Rijen Station	Aotluk Hemi baias iko long	Bilou mm (probability)	Nomol mm (probability)	Abav mm (probability)
Sola	Bilou Nomol	<871(48%)	871—1147(25%)	>1147(27%)
Pekoa	Bilou Nomol	<329(60%)	329—521(29%)	>521(11%)
Lamap	Bilou Nomol	<269(50%)	269—407(34%)	>407(16%)
Bauerfield	Bilou Nomol	<233(52%)	233—437(31%)	>437(17%)
Port Vila	Bilou Nomol	<236(60%)	236—394(25%)	>394(15%)
Whitegrass	Bilou Nomol	<117(55%)	117—214(39%)	>214(6%)
Aneityum	Bilou Nomol	<263(62%)	263—425(24%)	>425(14%)

GENERAL LUK LUK

Southern Oscillation Index (SOI): Valiu blong SOI long las 30 dei istap long -8.1 . SOI istap shoem se ol pressure blong atmosfera oli stil stap long condisen blong wan El Nino.

Sea Surface Temperature (SST): Ol tempereja blong solwora oli aot long renj blong wan El Nino mo oli kambk finis long nomol. Long 4 Okis, tempereja blong solwora hemi warm by $+0.3^{\circ}\text{C}$. Sapos solwora hemi warm by $+0.8^{\circ}\text{C}$ bitim nomol tempereja blong hem,

hemia istap soem condisen blong wan El Nino.

Tred Win: Win we istap kam everi taem long SE istap long nomol tru aot long Pasifik. Wan bigfala drae taem bae I save kosem ol win ia blong godaon, mo I save kosem ol win ia blong stat blow ikam long wes.

Coral Bleaching Aotluk: Condisen blong ol korel istap long No Stress kasem nekis 4 weeks. Hemia I minim se I nogat janis blong ol corel oli lusum kala mo kakae blong olgeta folem hae tempereja blong solwora.

Ol Model Fokast: Ol klaemet model we VMGD I stap usum oli soem se bae tempereja blong solwora istap long nomol kasem en blong 2019.

ENSO Event Aotluk: VMGD I wantem infomem ol pipol long Vanuatu se ENSO I kambk long nomol. Bae I nogat Janis blong gat wan El Nino o wan La Nina kasem en blong yia 2019.



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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 pustum 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 +7 mo -7 hemia iminim se yumi stap long wan Neutral ENSO. Taem difrens hemi bitim +7 hemia iminim se atmosfera hemi stap long condisen blong La Nina mo bai yumi save kasem plante ren. Be sapos hemi bitim -7 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.

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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 bigfala janis se se bai i hapen.

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
WANEM WE YU KASEM

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

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.

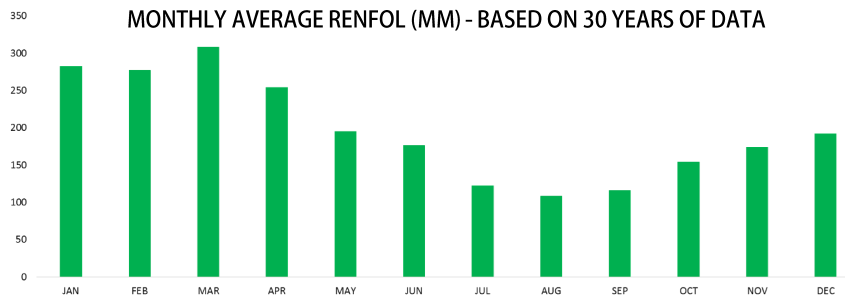
Weta Fokast: Hemi wan lukluk we yumi save expectem long wanem weta nao bai yumi save kasem nekis 2 wik.

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 long nekis yia.



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