



Climate Outlook

Tropical Cyclone Outlook for November 2019 – April 2020 period

Two (2) to three (3) cyclones are predicted to pass within 400km radius of the Samoan region with at least one (1) tropical cyclone to reach Category 3 (wind speed at least 178km/hr to 111miles/hr) or greater (Category 4 to Category 5).

Historical trends on Tropical Cyclones for Samoa (period 1990 – to date)

Date/Year	Tropical Cyclone (TC)	Category	Comment	Cost of Damage
Feb 03 - 19/2018	Gita	4	Affected Samoa from Feb 9 – 11 (Cat 1) Winds of 39 – 54 mph gust at 72mph	WST\$2.5mil
Apr 20 – 24/2016	Amos	3	Affected Samoa from April 21 – 24 (Cat 2) Winds of 55 – 72 mph	n/a
Dec 9 - 19/2012	Evans	4	Affected Samoa from Dec 11 – 15 (Cat 2) Winds of 55 – 72 mph	WST\$465mil
Feb 10 – 23/2005	Olaf	5	Affected Samoa from Feb 10 – 13 (Cat 1) then intensify rapidly to Cat4 as it moves east-south-east Winds of 39 – 54 mph	n/a
Dec 25 – Jan 12 2003 - 2004	Heta	5	Affected Samoa from Jan 2 – 4 (Cat 2) Winds of 55 – 72 mph	NZ\$85mil
Dec 4 – 17/1991	Val	4	Affected Samoa from Dec 7 – 9 (Cat 4) Winds gust exceeding 145mph (230km/h)	WST\$700mil
Jan 30 – Feb 10 1990	Ofa	4	Affected Samoa from Feb 1 – 4 (Cat 3) Winds gust exceeding 95mph (150km/h)	WST\$300mil

Season	Baseline(30 years 1981-2010)	Actual	Comment	Responsible Ministry
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Tropical Cyclones (TC) (SW Pacific Region: 160°E – 120°W and 0° to 25°S)

2018-2019 Season	7-11 named TC from Nov 2018 – April 2019	Sep 2018: 1 Nov 2018: None Dec 2018: 1 Jan 2019: None Feb 2019: 3 Mar 2019: 0 Apr 2019: 0	Sep 2018: TC Liua (TD01F) Dec 2018: TC Mona (TD04F) Feb 2019: TC Neil (TD07F) TC Oma (TD09F) TC Pola (TD11F) Total of 5 named Tropical Cyclone (TC) developed in our region so far for 2018/19 season. Note - TC Liua developed in September prior to the official start of the TC season i.e. Nov 2018 – April 2019. Total of 14 Tropical Depression developed within the region.	MNRE/MET
2019-2020 Season		Nov 2019: 1	Nov 2019: TC Rita (TD01F)	

Climate Change Mitigation

(i) Electricity/ Renewable Energy	Total(tCO ₂ e) Jan-Nov 2019	Total (kWh) Jan-Nov 2019	%Electricity Generation (Jan 2010 - Nov 2019)	Responsible Agency
Hydro	25,679,386.72	42,114,194.22	26.3%	EPC
Wind	127,743.90	209,500.00	0.1%	EPC
Solar	13,603,421.77	22,309,611.70	13.9%	EPC
Biomass	Afolau Biomass Gasification Plant construction commenced in July 2019. Commissioning of the plant is scheduled for February 2020.			STEC

mm- millimeters
mph- miles per hour
TD- Tropical Depression

Ha - hectares
C - Degrees Celsius
Kwh – kilowatt hour
tCO₂e- carbon equivalent

Sq.km - square kilometres
TC- Tropical Cyclone
c-ton -carbon tonne



Climate Change Mitigation

(iv) Forestry

Forest Cover	Baseline 2017	Auctual	Comment	Responsible Agency
MNRE	National Forest	165,048.89ha (58%)	386,765 trees planted/dispatched –	MNRE
2015 – Dec	Inventory Report	45,736,227 c-ton	MNRE (need to calculate/obtain missing	
2019	2017		data on area under FD)	
(Two Million		440,409 trees	53,644 seedlings planted/dispatched –	
Tree Planting		planted/dis-	Private & Communities	
Campaign		patched	(verification and data collection in	
		436.418 hac area	progress for communities and private	
		planted	organisation/NGOs)	

Climate Change Governance

Activity	Yes/No	Timeframe	Status	
National Climate Change Policy	Yes		Stakeholder consultation	MNRE
Community Integrated Management Plans (CIM) 43 Plans	Yes	2019 – 2029	Implementation - ongoing	MNRE / All Stakeholders

International obligation to UNFCCC

Samoa's 3rd National Communication Report 2020-2023

-National Circumstances

-National GHG Inventory

-Vulnerability & Adaptation Assessment

Development the First Biennial Update Report (BUR) on Climate Change / Knowledge Management M & E

inception workshop

MNRE

Climate Change Financing

NATIONAL PROJECTS					
Partner/Source	Project Title / Grant	Amount (USD)	Status (% of Delivery) Nov 2019	Remaining Funds	Responsible Agency
Global Environment Facility	SMSMCL(2015-2020	\$4,736,363.00	\$3,694,363.00 / 82%	\$494,795.81	MNRE/MoF
	EWACC (2015-2021)	\$12,322,936.00	\$8,634,455.20 / 70%	\$3,688,481.00	MNRE/MoF
	IMPRESS (2017-2022)	\$6,076,000.00	\$3,128,002.10 / 58%	\$2,557,865.00	MNRE/MoF
Green Climate Fund	GCF (2017 -2023)	\$65,718,000.00	\$4,992,371.00 / 7%	\$60,725,629.00	MoF/ MNRE/MoH MWTI/ LTA
IDA/World Bank	ECR/PPCR Project (2013-2020)	\$14,600,000.00	\$7,423,507.15 / 53%	\$5,430,087.07	MoF/MNRE
REGIONAL PROJECT					
IDA/World Bank	Pacific Resilience Project	\$16,790,000.00	\$4,026,423.25/ 25%	\$11,452,645.16	MNRE

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