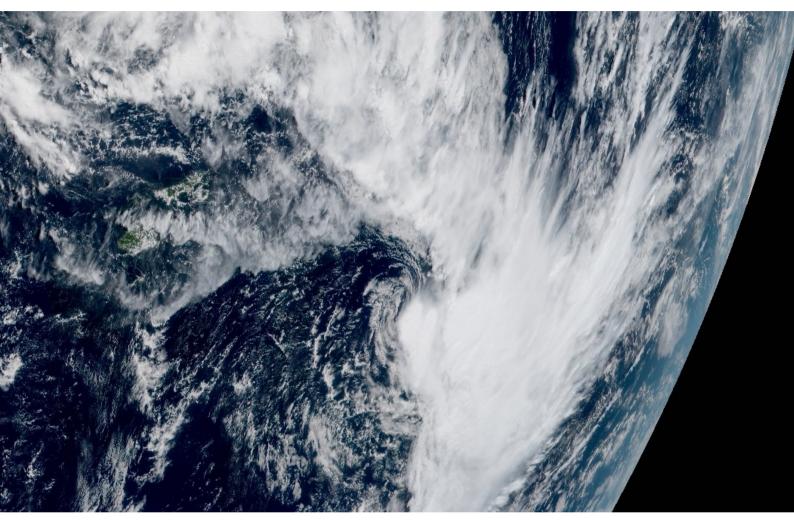
2017

Force Thirteen Cyclone Reports

Cyclone 14P (201712)



Cyclone 14P was an unnamed cyclone which only attained tropical storm status briefly, though persisted in the South Pacific for over a week.

Compiled by Nathan Foy at Force Thirteen, April 17, 2017 Direct contact: force-13@hotmail.co.uk

Cover photo: Himawari image of Cyclone 14P, captured late on April 5, 2017.



Contents

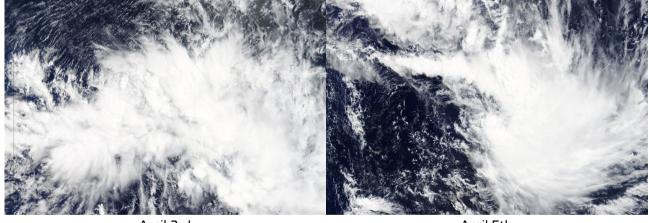
1.1. Synoptic History	3
1.2. Best Track	4
1.3. Track chart	5
1.4. Comparison with other agencies	6
2. Effects on land	7
3. Forecasting Critique	8
4. Cyclone Destruction Potential Scale	12
5. Force Thirteen's Coverage on 14P	13

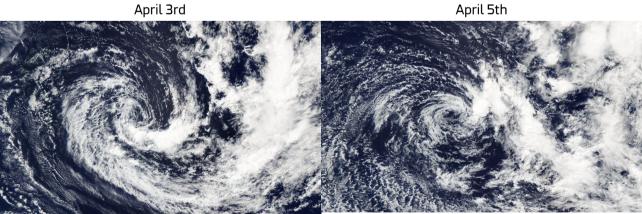


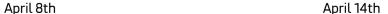
1.1. Synoptic History

Early in April, an energetic but disorganised area of convection was located over the Fiji and Samoa region of the South Pacific. A circulation developed near Samoa and was initially very elongated and took some time to become more presentable. By April 4th when the system was moving south near Niue, the circulation looked better, with deep convection established on the eastern side of the system. However, this was blown away to the southeast by high wind shear early on April 5th. Throughout much of the day, the center of the storm was devoid of new convection until new thunderstorms sprung up over the system on the afternoon of April 5th. By evening, the convection remained and was determined to have attained tropical storm status for a short period of time until the convection dissipated early on April 6th.

Some residual convection continued during the 6th, and by April 7th the system was mostly exposed, and was picked up by a front early on the 9th. The extratropical remnants of the storm did reattain gale force winds on April 12th as it curved back towards the east and eventually east-northeast into the 13th.







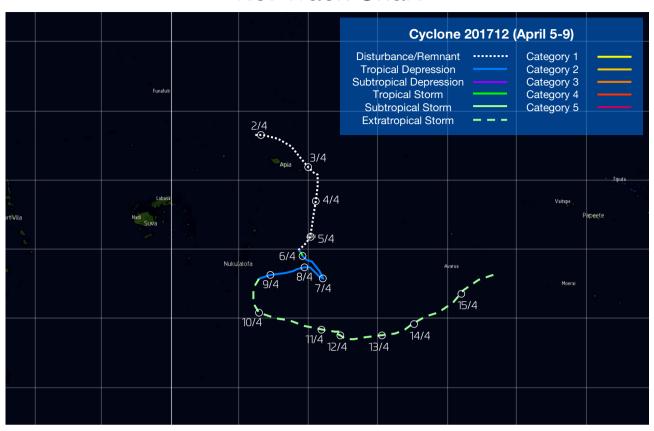


1.2. Best Track

Below is the best track analysis from Force Thirteen, using Force Thirteen's SATOPS—a tool which uses infrared satellite imagery and cloud temperatures to estimate a storm's wind speed and air pressure. SATOPS does not take precedence over surface observations.

01/04/2017 18:00 -12.1 -173.8 10 1012 Tropical Disturban 02/04/2017 00:00 -12.1 -173.1 15 1011 Tropical Disturban 02/04/2017 06:00 -12.3 -172.2 20 1012 Tropical Disturban 02/04/2017 12:00 -12.8 -171.4 20 1012 Tropical Disturban 02/04/2017 18:00 -13.4 -170.6 20 1011 Tropical Disturban 03/04/2017 06:00 -14.4 -169.6 25 1009 Tropical Disturban 03/04/2017 12:00 -14.7 -169.4 30 1006 Tropical Disturban 03/04/2017 18:00 -15.6 -169.4 30 1006 Tropical Disturban 04/04/2017 18:00 -16.4 -169.5 30 1005 Tropical Disturban 04/04/2017 06:00 -17.3 -169.6 30 1005 Tropical Disturban 04/04/2017 12:00 -18.6 <td< th=""><th>Date (dd/mm/yyyy)</th><th>Time</th><th>Latitude</th><th>Longitude</th><th>Wind</th><th>Press</th><th>Stage</th></td<>	Date (dd/mm/yyyy)	Time	Latitude	Longitude	Wind	Press	Stage
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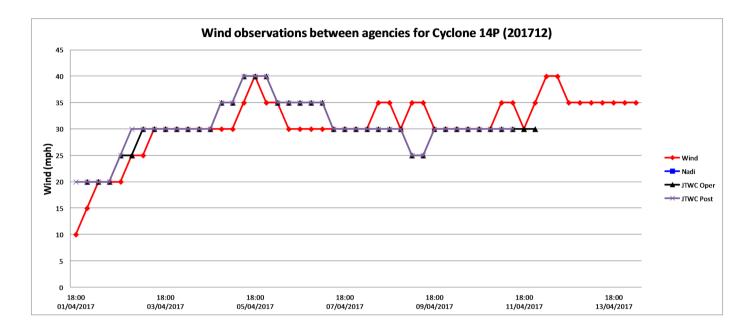
1.3. Track Chart

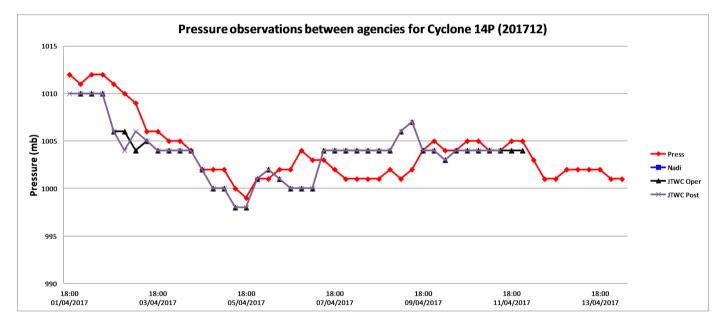




1.4. Comparison with other agencies

14P was monitored by the Regional Specialized Meteorological Centre, in this instance the Fiji Meteorological Service, and by the U.S. Joint Typhoon Warning Center (JTWC). Data from Fiji is not yet available, and so the charts below show comparisons between Force Thirteen's best track and the JTWC's observations.







2. Effects on Land

Since Cyclone 14P was weak, no effects were reported on land. However, the storm delivered some rain to some locations in the South Pacific. Below is a list of satellite derived rainfall totals. Despite the center of the cyclone passing almost directly over Niue, no significant rainfall was detected on the island.

Wallis and Futuna

Matā'utu 40mm

Tokelau

Atafu 120mm Nukunonu 120mm Fakaofo 80mm

Samoa

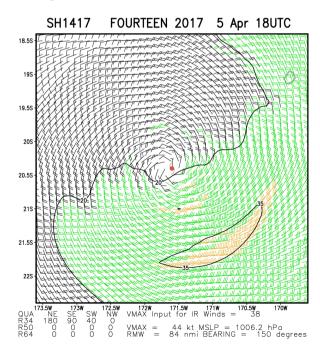
Safotu 40mm Vailoa 40mm Salelologa 30mm Faleasiu 10mm Apia 10mm Solosolo 20mm

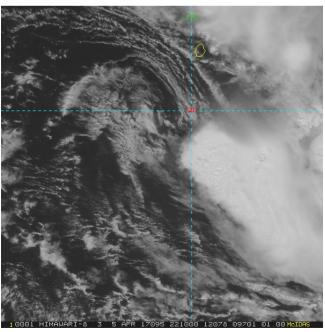
American Samoa

Futiga 70mm
Pago Pago 60mm
Olosega 40mm
Faleasao 70mm
Taulaga 130mm
Rose Atoll 70mm

Cook Islands

Pukapuka 140mm Kikau 60mm Manihiki 50mm Palmerston 110mm Beveridge Reef 300mm



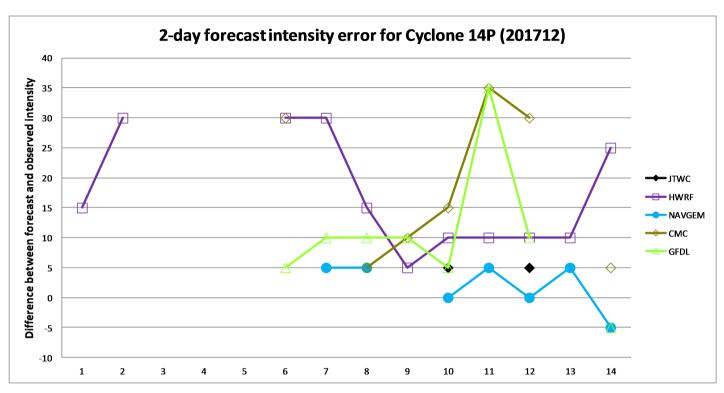


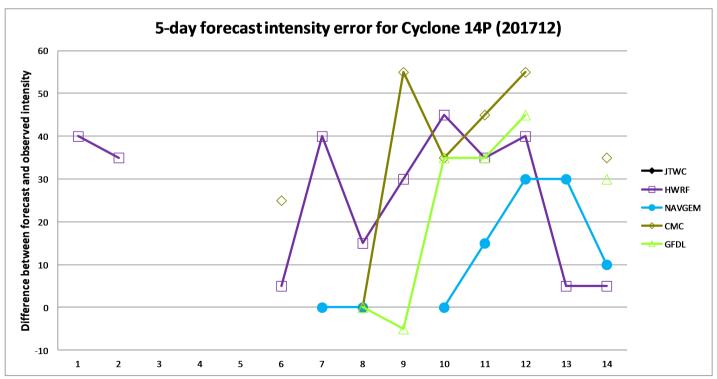
Satellite estimated winds and visible satellite image of Cyclone 14P near peak intensity.



The next two pages show the track and intensity forecast error from the computer models and the JTWC during Cyclone 14P.

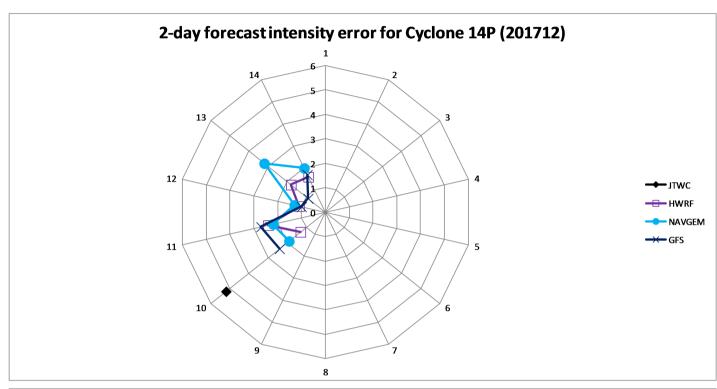
The intensity error charts show how many miles per hour the model predictions were from the observed intensity two and five days later. A value of 0 denotes a perfectly accurate prediction. Negative values correspond to predictions lower than the observation, and positive values show predictions higher than the observation.

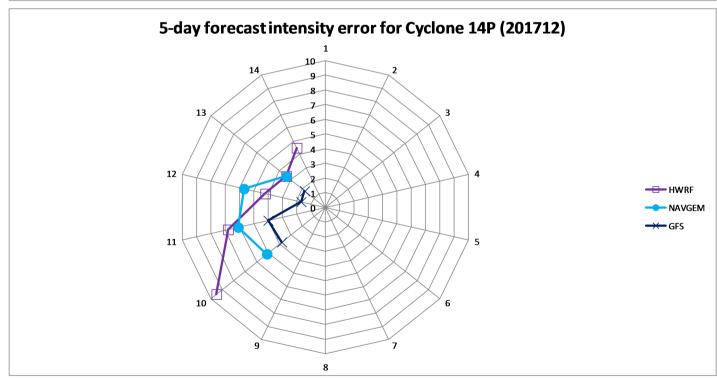






The track error graphics show how far away from a perfectly accurate positional prediction the computer models and the JTWC predicted two and five days before the fact. Values are expressed in angular degrees, and a value closer to 0 (the center of the graphic) indicates a more accurate prediction.







Data from the charts are published below.

2-day forecast intensity error								
Run	JTWC	FIJI	HWRF	GFS	NAVGEM	GFDN	CMC	GFDL
2017040306			15					
2017040312			30					
2017040318								
2017040400								
2017040406								
2017040412			30				30	5
2017040418			30		5			10
2017040500			15		5		5	10
2017040506			5				10	10
2017040512	5		10		0		15	5
2017040518			10		5		35	35
2017040600	5		10		0		30	10
2017040606			10		5			
2017040612			25		-5	·	5	-5

5-day forecast intensity error								
Run	JTWC	FIJI	HWRF	GFS	NAVGEM	GFDN	CMC	GFDL
2017040306			40					
2017040312			35					
2017040318								
2017040400								
2017040406								
2017040412			5				25	
2017040418			40		0			
2017040500			15		0		0	0
2017040506			30				55	-5
2017040512			45		0		35	35
2017040518			35		15		45	35
2017040600			40		30		55	45
2017040606			5		30			
2017040612			5		10		35	30

Model	Average	Predictions
JTWC	5	2
FIJI	40	2
HWRF	22	22
GFS	0	0
NAVGEM	7.1	14
GFDN	0	0
CMC	27.1	14
GFDL	15.7	14

Therefore, the best model for intensity was the NAVGEM



Data from the charts are published below.

2-day forecast track error								
Run	JTWC	FIJI	HWRF	GFS	NAVGEM	GFDN	CMC	GFDL
2017040306								
2017040312								
2017040318								
2017040400								
2017040406								
2017040412								
2017040418								
2017040500								
2017040506								
2017040512	5.2		1.3	2.4	1.9			
2017040518			2.4	2.7	2.2			
2017040600	•		1.1	1	1.3			
2017040606	•		1.8	0.9	3.2			
2017040612	•		1.6	1.7	2			

5-day forecast track error								
Run	JTWC	FIJI	HWRF	GFS	NAVGEM	GFDN	CMC	GFDL
2017040306								
2017040312								
2017040318								
2017040400								
2017040406								
2017040412								
2017040418								
2017040500								
2017040506								
2017040512			9.5	3.8	5.1			
2017040518			6.8	4	6.1			
2017040600			4.2	1.7	5.7			
2017040606			3.4	1.8	3.4			
2017040612			4.5					

Model	Average	Predictions
JTWC	5.2	1
FIJI	0	0
HWRF	3.7	10
GFS	2.2	10
NAVGEM	3.4	9
GFDN	0	0
CMC	0	0
GFDL	0	0

Therefore, the best model for track predictions was the GFS.



4. Cyclone Destruction Potential Scale

The Cyclone Destruction Potential Scale (CDPS) is a new way of measuring cyclone impacts in a more meaningful way. For the past 45 years, storms worldwide have been measured using the Saffir-Simpson Hurricane Wind Scale, split into five categories. However, this scale measures wind alone, and does not correlate well with actual impacts on land, measured by monetary damage.

The CDPS measures other factors, such as storm size and forward speed as well as intensity to create a ten tiered scale that encompasses tropical storms as well as hurricanes.

Stage 1—Small or weak storms that are unlikely to cause a significant impact.

Stage 2—Generally disorganised storms that can cause significant damage.

Stage 3—Further organised systems that are likely to cause significant damage.

Stage 4—Somewhat powerful storms that are likely to cause extensive damage.

Stage 5—Powerful storms that are likely to cause devastating damages.

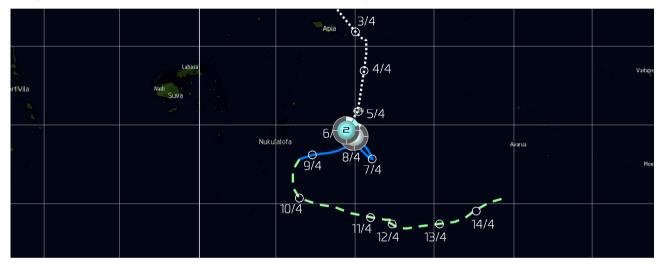
Stage 6—Very powerful storms that are likely to cause catastrophic damage.

Stage 7—Extremely powerful storms that are likely to cause catastrophic damage.

Stage 8—Super storms that are likely to cause incredible damage.

Stage 9—Super storms that may cause total damage.

Stage 10—Super storms that are likely to cause total damage.



Cyclone 14P was the tenth storm to be observed by Force Thirteen using the CDPS—a method which was adopted in January 2017.

14P was a Stage 2 cyclone at peak.

The Cyclone Destruction Potential Scale was created by Devon Williams in 2016. More information can be found at: https://drive.google.com/file/d/0B7pEWk6yHKggSE1STHg2UFJmbHM/view



5. Force Thirteen's Coverage on 14P

Due to Cyclone 14P's lowly status, it barely made it as a footnote in Force Thirteen's coverage due to the presence of Cyclones Cook and Ernie. Updates were being delivered by the Force Thirteen AU team since the main channel was taking a scheduled break.

Comments, suggestions and inquiries should be directed to force-13@hotmail.co.uk, or any of Force Thirteen's online platforms.

