



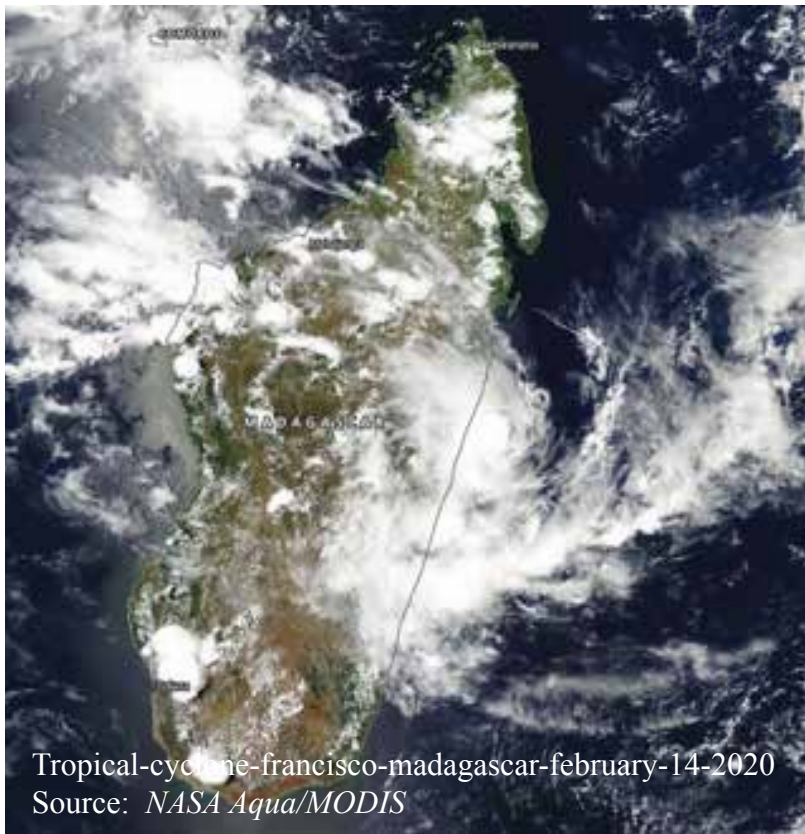
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Tropical-cyclone-francisco-madagascar-february-14-2020  
Source: *NASA Aqua/MODIS*

# Tropical Cyclone "Francisco" makes landfall south of Toamasina, Madagascar

Francisco, the 6th named storm of the 2019/20 Southwest Indian Ocean cyclone season, made landfall on at 18:00 UTC on February 14 over the southeast coast of the Atsinanana Region, close to Vatomandry City.

In the south - west Indian Ocean, on the Eastern coast of Africa, tropical cyclones form south of the equator and west of 90° E to the coast of Africa.

The tropical cyclones can affect some Indian Ocean island nations as well as countries along Africa's east coast. Usually, warmer the water, more the frequency of cyclones.

The southern African sub-continent, meanwhile, experiences one landfall of cyclone every few years. This is partly because most of the South Indian Ocean tropical cyclones make landfall on Madagascar and never reach the main continent. The island that gets hit by an average of three to four of these aggressive storms each year.

Another research reveals that storm reaching South African coast are considerably weakened after passing over Madagascar and Mozambique, by cooler waters off the east coast, or interfering non-tropical weather systems.

Annexure 1 shows the major cyclones hit Madagascar since 2010.

## **Economic Impacts**

The cyclones damage properties, crops and kill people. A great deal of the population and economy relies on agriculture that, most of time, gets destroyed in cyclones. The majority of the country's population, more than 65%, also live in rural areas that become inaccessible when the storms hit and destroy the weak infrastructure.

The country experiences about \$100 million in economic losses annually from cyclones, earthquakes, and floods. Tropical cyclones, combined with wind, rain, and storm surge, cause about 86 % of total annual losses.

General Insurance premium is around 0.50 % of the GDP. Therefore, a huge protection gap exists. A big disaster can impact the country's economic growth.

Source: *NASA, GFDRR, The World Bank*



## Annexure 1

<b>Sr. No.</b>	<b>Name of Cyclone</b>	<b>Date / Year of Occurrence</b>	<b>Country(ies) Impacted</b>	<b>Impact</b>
1	Francisco	3-15 February 2020	Madagascar	Heavy rains and flooding
2	Diane	22-26 January 2020	Madagascar, Mauritius	Widespread flooding in Madagascar.
3	Belna	2-14 December 2019	Seychelles, Mayotte, Comoros, Madagascar	Economic Damage over US\$ 25 Million.
4	Idai	4-21 March 2019	Mozambique, Malawi, Madagascar, Zimbabwe	Economic Damage of more than US\$ 2.2 Billion
5	Eliakim	March 13-20, 2018	Madagascar	Flooding
6	Ava	December 27, 2017- January 2, 2018	Madagascar	Economic damage of over US\$ 3.1 million.
7	Enawo	March 2-9, 2017	Madagascar, Reunion	Economic damage of over US\$ 20 million.
8	Fantala	April 11-23, 2016	Agaléga, Seychelles, Madagascar, Kenya, and Tanzania	Economic damage of US\$ 4.5 million in Seychelles. Heavy rain and flooding damaged crop in Kenya and Tanzania.
9	Daya	Feb 8-12, 2016	Madagascar, Réunion, and Mauritius	Heavy rain in Madagascar, Réunion, and Mauritius. Flash floods in Mauritius.
10	Haliba	March 7-10, 2015	Madagascar, Mauritius	Destruction of rice fields in Madagascar. Floods in Mauritius, and agricultural damage of around US\$ 6.4 million in Reunion.
11	Fundi	Feb 5-8, 2015	Madagascar, Mozambique	Severe Flooding in Madagascar
12	Chedza	January 14-22, 2015	Malawi, Mozambique, Zimbabwe, Madagascar, Réunion	Economic damage of US\$ 40 million in Madagascar. Heavy rainfall and flooding in Mozambique, Malawi, Zimbabwe, and Reunion.
13	Hellen	March 26-April 5, 2014	Mozambique, Comoros Island, and Madagascar	Heavy rainfall and flooding in Mozambique, Comoros Island, and Madagascar

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14	Deliwe	January 14-22, 2014	Madagascar	Heavy rains and flooding
15	Bejisa	December 27, 2013 - January 4, 2014	Reunion, Mauritius, Seychelles, Madagascar	Economic damage of US\$ 89 million in Reunion, heavy rainfall in Seychelles, Mauritius, and Madagascar
16	Amara	December 14-28, 2013	Rodrigues Island, Mauritius	Widespread infrastructural damage
17	Haruna	February 14 - February 28, 2013	Mozambique, Madagascar	Damage of infrastructure due to strong winds and floods.
18	Felleng	January 26-February 3, 2013	Madagascar, Reunion	Heavy rains and flooding of low-lying houses and rice fields in Madagascar. Floods in Reunion.
19	Irina	February 25-March 14, 2012	Madagascar, Mozambique, South Africa	Severe flooding and landslides
20	Giovanna	February 7-24, 2012	Madagascar, Mauritius, Reunion	Destruction of houses in Madagascar due to heavy rainfall and flooding.
21	Funso	January 17-29, 2012	Mozambique, Malawi	Destruction of hundreds of houses in Mozambique. Heavy flooding in Malawi.
22	Dando	January 10-16, 2012	Mozambique, Zimbabwe, Swaziland. South Africa	Heavy rains and flooding
23	Chanda	January 5-10, 2012	Madagascar	Heavy rainfall and flooding.
24	Subtropical Depression 03	December 19-23, 2011	Madagascar	Heavy rainfall in Madagascar.
25	Bingiza	February 9-19, 2011	Madagascar	Damage to thousands of houses and crop field.
26	Hubert	March 9-15, 2010	Madagascar	Damage to thousands of due to heavy rainfall and flooding.

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