



# Earth



J. B. BODA

1943 - 2018



Years

---

WE BELIEVE

---

Issue: May 2018





## Cyclone Risk in South East Africa

Damage in Mozambique due to Cylcone Dineo in Feb 2017  
Source: [clubofmozambique.com](http://clubofmozambique.com)

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

The tropical cyclones that form in this area can affect some of the various Indian Ocean island nations and or various countries along Africa's east coast.

The southern African sub-continent, 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.

Another research reveals that storms 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.



Damage by Cyclone Enawo in Madagascar, March 2017  
Source: [www.gbcghana.com](http://www.gbcghana.com)



Damage of Beach Property in Mauritius due to Cylcone Berguitta in January 2018  
Source: *Express.co.uk*

### Country Wise Risk Classification:

Country	Cyclone Risk
Ethiopia	Very low-low
Somalia	Very low-low
Kenya	Very low
Tanzania	Low
Uganda	Very Low
Malawi	Very Low
Zambia	Very low- low
Zimbabwe	Medium
Botswana	Very low- low
Mozambique	High
Swaziland	Low
Lesotho	Very Low
Namibia	Very Low
South Africa	Medium
Madagascar	High
Seychelles	High
Mauritius	High
Reunion	High
Mayotte	High

## Historic Cyclones and damage caused

Table below shows cyclone occurred since 1999-2000

Sr. No.	Name of Cyclone	Date / Year of Occurrence	Country(ies) Impacted	Impact
1	Eliakim	March 13-20, 2018	Madagascar	Flooding
2	Berguitta	January 9-20,2018	Mauritius	Heavy rain and flooding. Damage to beach property.
3	Ava	December 27, 2017- January 2, 2018	Madagascar	Economic damage of over US\$ 3.1 million.
4	Enawo	March 2-9, 2017	Madagascar, Reunion	Economic damage of over US\$ 20 million.
5	Dineo	February 13-17, 2017		Economic damage of over US\$ 200 million in Zimbabwe. Heavy flooding in Botswana.
6	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.
7	Daya	Feb 8-12, 2016	Madagascar, Réunion, and Mauritius	Heavy rain in Madagascar, Réunion, and Mauritius. Flash floods in Mauritius.
8	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.
9	Fundi	Feb 5-8, 2015	Madagascar, Mozambique	Severe Flooding in Madagascar
10	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.
11	Hellen	March 26-April 5, 2014	Mozambique, Comoros Island, and Madagascar	Heavy rainfall and flooding in Mozambique, Comoros Island, and Madagascar



<b>Sr. No.</b>	<b>Name of Cyclone</b>	<b>Date / Year of Occurrence</b>	<b>Country(ies) Impacted</b>	<b>Impact</b>
12	Edilson	February 3-4, 2014	Mauritius	Heavy rainfall
13	Deliwe	January 14-22, 2014	Madagascar	Heavy rains and flooding
14	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
15	Amara	December 14-28, 2013	Rodrigues Island, Mauritius	Widespread infrastructural damage
16	Imelda	April 5-16, 2013	Mauritius, Reunion	Not available
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	Dumile	December 29, 2012 - January 5, 2013	Mauritius, Reunion	Insured Loss of US\$ 4.7 million and Economic Loss of US\$ 41.3 million in Reunion. Heavy rains in Mauritius.
20	Irina	February 25- March 14, 2012	Madagascar, Mozambique, South Africa	Severe flooding and landslides
21	Giovanna	February 7-24, 2012	Madagascar, Mauritius, Reunion	Destruction of houses in Madagascar due to heavy rainfall and flooding.
22	Funso	January 17-29, 2012	Mozambique, Malawi	Destruction of hundreds of houses in Mozambique. Heavy flooding in Malawi.
23	Dando	January 10-16, 2012	Mozambique, Zimbabwe, Swaziland. South Africa	Heavy rains and flooding
24	Chanda	January 5-10, 2012	Madagascar	Heavy rainfall and flooding.
25	Subtropical Depression 03	December 19-23, 2011	Madagascar	Heavy rainfall in Madagascar.

<b>Sr. No.</b>	<b>Name of Cyclone</b>	<b>Date / Year of Occurrence</b>	<b>Country(ies) Impacted</b>	<b>Impact</b>
26	Bingiza	February 9-19, 2011	Madagascar	Damage to thousands of houses and crop field.
27	Hubert	March 9-15, 2010	Madagascar	Damage to thousands of due to heavy rainfall and flooding.
28	Jade	April 3-10, 2009	Madagascar	Heavy rainfall in Madagascar.
29	Izilda	March 22-27, 2009	Madagascar, Europa island, Mozambique	Moderate rainfall in south- west Madagascar and Europa Island
30	Gael	February 1-9, 2009	Réunion	Heavy rainfall in Réunion.
31	Fanele	January 17-22, 2009	Madagascar,	Damage to infrastructure due to flooding
32	Eric	January 16-22, 2009	Madagascar, the Mozambique Channel	Damage to infrastructure due to heavy rainfall.
33	Asma	October 15-24,2008	Madagascar, Mozambique, Tanzania	Heavy rainfall and flooding in North Madagascar. Un-seasonal rain in Mozambique and Tanzania.
34	Jokwe	March 11, 2008	Madagascar, Mozambique	Economic damage of over US\$ 8 million
35	Ivan	February 5-27, 2008	Madagascar	Economic damage of US\$ 30 million
36	Hondo	February 2-29, 2008	Mauritius, Reunion	Heavy rainfall in Reunion.
37	Fame	January 22- February 1, 2008	Madagascar, Reunion	Economic loss of US\$ 51,000 in Madagascar. Heavy rain in Reunion.
38	Elnus	December 29, 2007 - January 3, 2008	Europa Island, Malawi, Madagascar	Heavy rains in Madagascar. Minor flooding in Malawi.
39	Celina	December 11-23, 2007	Manutius, Reunion	Heavy rainfall and flooding
40	Jaya	March 26 -April8, 2007	Madagascar, Mozambique	Heavy rainfall and flooding in Madagascar.

<b>Sr. No.</b>	<b>Name of Cyclone</b>	<b>Date / Year of Occurrence</b>	<b>Country(ies) Impacted</b>	<b>Impact</b>
41	Indlala	March 9-18, 2007	Madagascar	Economic damage of US\$ 240 million. Heavy damage to infrastructure and crop.
42	Gamede	February 20- March 3, 2007	Mauritius, Reunion	Economic damage of US\$ 26 million in Reunion which includes damage to infrastructure and crops. Light infrastructure damage in Mauritius.
43	Favio	February 11-23, 2007	Madagascar, Mozambique, Zimbabwe, Tanzania, Malawi	Economic damage of US\$ 71 million in Mozambique. Damage to infrastructure in Zimbabwe. Rainfall and flooding in Madagascar.
44	Clovis	December 29, 2006 - January 4, 2007	Madagascar	Heavy rainfall and flooding
45	Bondo	December 15-28, 2006	Seychelles, Madagascar, Tanzania	Heavy rainfall and flooding
46	Diwa	March 2-8, 2006	St. Bernard island, Mauritius, Reunion	Heavy rainfall and flooding
47	Boloetse	January 20-February 5, 2006	Madagascar, Mozambique, Europa Island, Vacoas(Mauritius)	Heavy rainfall and flooding
48	Ernest	January 16-25, 2005	Mayotte, Madagascar	Widespread crop damage in Mayotte. Heavy rainfall and flooding in Madagascar.
49	Gafilo	March 1-15, 2004	Madagascar, Seychelles, Reunion, Mayotte	Economic damage of around US\$ 250 million in Madagascar. Heavy rainfall in Seychelles, Reunion, and Mayotte.
50	Elita	January 26- February 5, 2004	Madagascar, Mozambique, Malawi, Seychelles, Mauritius, Réunion	Damage of houses and crop land in Madagascar. Heavy rainfall in Malawi, Mozambique, Seychelles, Mauritius, and Reunion.

<b>Sr. No.</b>	<b>Name of Cyclone</b>	<b>Date / Year of Occurrence</b>	<b>Country(ies) Impacted</b>	<b>Impact</b>
51	Cela	December 4-20, 2003	Madagascar	Heavy rainfall in north West Madagascar.
52	Beni	November 9-25, 2003	Mascarene Islands(Mauritius), Reunion	Heavy rainfall
53	Manou	May 2-13, 2013	Madagascar, Mauritius	Damage of infrastructure and crop in Madagascar. Heavy rainfall in Mauritius.
54	Kalunde	March 3-14, 2003	Rodrigues	Economic damage of over US\$ 3.15 million.
55	Japhet	February 25- March 6, 2003	Mozambique, Zambia, Zimbabwe	Heavy infrastructure damage in Mozambique. Damage of houses in Zimbabwe. Flooding in Zambia.
56	Gerry	February 5-15, 2003	Mauritius	Heavy rainfall in Mauritius.
57	Fari	January 24-31, 2003	Madagascar	Damage of houses and crop
58	Delfina	December 30, 2002 - January 9, 2003	Mozambique, Malawi	Economic damage of US\$ 3.5 million in Mozambique. Heavy rainfall and flooding in Malawi.
59	Atang	November 4 -13, 2002	Mozambique, Tanzania	Heavy rainfall in Mozambique and Tanzania
60	Kesiny	May 2-11, 2002	Madagascar	Damage of infrastructure due to heavy rainfall and floods.
61	Hary	March 5-17, 2002	Madagascar, Réunion, Mauritius	Damage of crop and infrastructure in Madagascar. Heavy rainfall in Reunion and Mauritius.
62	Dina	January 17-28, 2002	Mauritius, Réunion	Economic damage of US\$ 190 million in Reunion. Economic damage of US\$ 97 million in Mauritius including property and crop damage.



Sr. No.	Name of Cyclone	Date / Year of Occurrence	Country(ies) Impacted	Impact
63	Cyprien	December 30, 2001 - January 3, 2002	Madagascar, Mozambique	Economic damage of US\$ 181,000 in Madagascar. Heavy rainfall in Mozambique.
64	Dera	March 4-12, 2001	Mayotte, Europa Island, Mozambique	Heavy rainfall and flooding
65	Ando	December 31, 2000 - January 9, 2001	Seychelles, Reunion, Swaziland	Heavy rainfall in Seychelles. Damage of crops and houses in Reunion. Drought in Swaziland.
66	Hudah	March 25- April 9, 2000	Madagascar, Mozambique	Damage of infrastructure and crops
67	Gloria	February 27- March 10, 2000	Madagascar, Mozambique	Damage of infrastructure
68	Leon–Eline	February 8-29, 2000	Madagascar, Malawi, Mozambique, South Africa, Swaziland, Zimbabwe, Namibia	Economic damage of around US\$ 500 million in Mozambique and around US\$ 300 million in South Africa. Heavy rainfall and flooding resulted in damage of infrastructure and crops.
69	Connie	January 25 - February 1, 2000	Mauritius, Réunion, Mozambique	Heavy rainfall and flooding
70	Astride	December 23, 1999 - January 3, 2000	Mayotte, Malawi	Heavy rainfall and flooding

Most of the affected countries are developing and insurance penetration is very low. With increased economic activities, these countries may suffer more economic and insured losses in future.

References: *GFDRR, JTWC, Meteo-France, Regional newspapers*

For more details email us at: [earth@jbbodagroup.com](mailto:earth@jbbodagroup.com)

Address: J. B. Boda Reinsurance Brokers Pvt. Ltd. Maker Bhavan No. 1, Sir Vithaldas Thackersey Marg, Mumbai 400 020, India | Phone :+91-22-6631 4949

[www.jbboda.net](http://www.jbboda.net) | [in company/jb-boda](https://www.linkedin.com/company/jb-boda) | [f https://www.facebook.com/jbboda](https://www.facebook.com/jbboda)