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COUNTRY REPORT INDONESIA

Dinda Tri Handayani

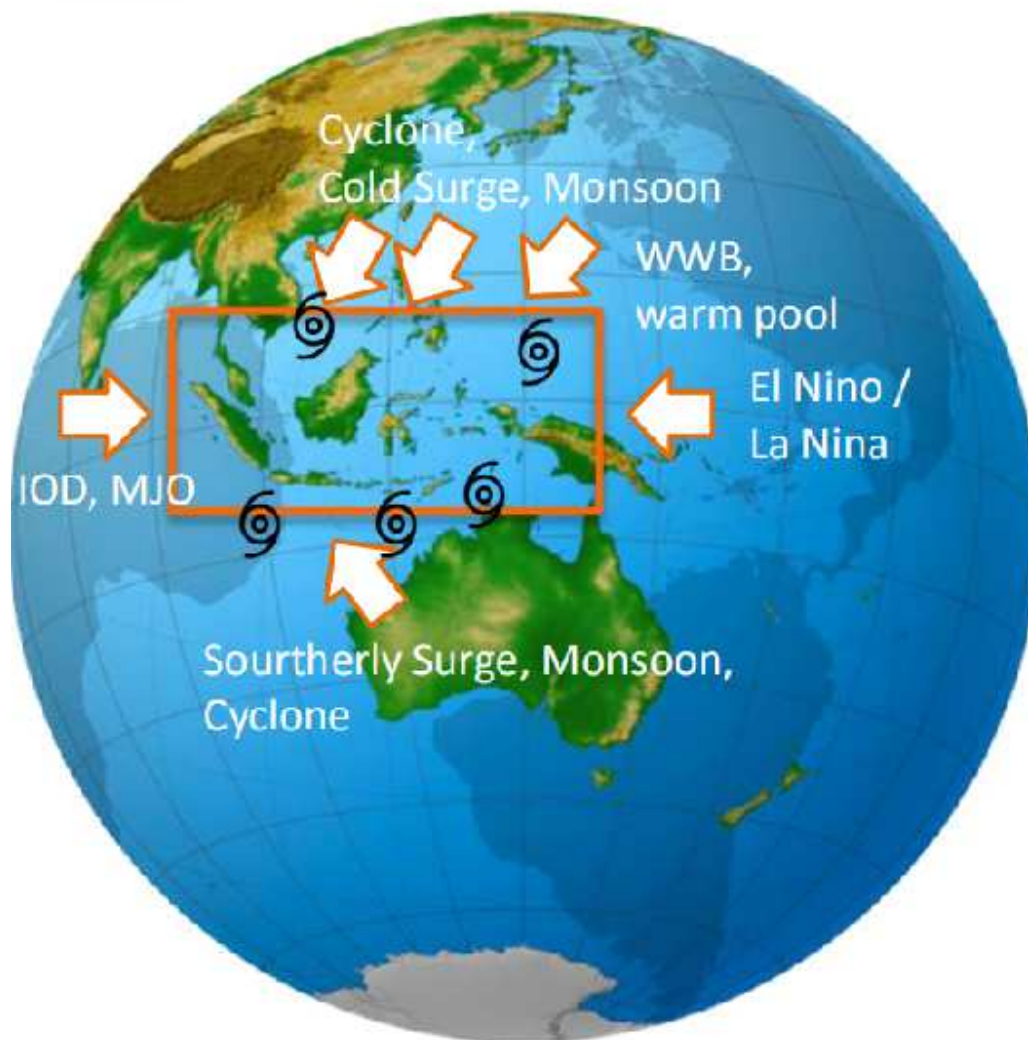
BADAN METEOROLOGI KLIMATOLOGI DAN GEOFISIKA



Outline

- **Indonesia Fact**
- **BMKG Background**
- **Jakarta Tropical Cyclone Warning Centre (TCWC Jakarta)**
- **Statistics of tropical cyclones in Indonesia**
- **Tropical Cyclone LILI**
- **Impact of TC LILI**

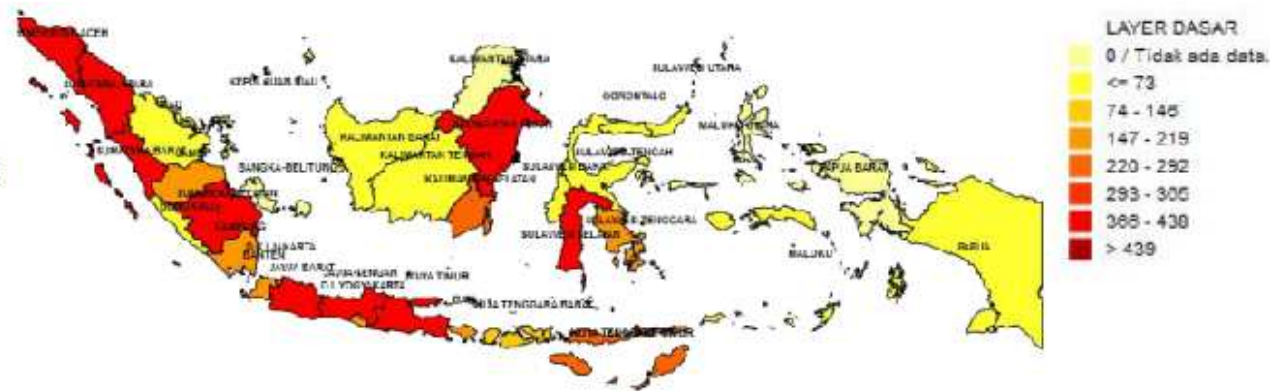
INDONESIA - FACT



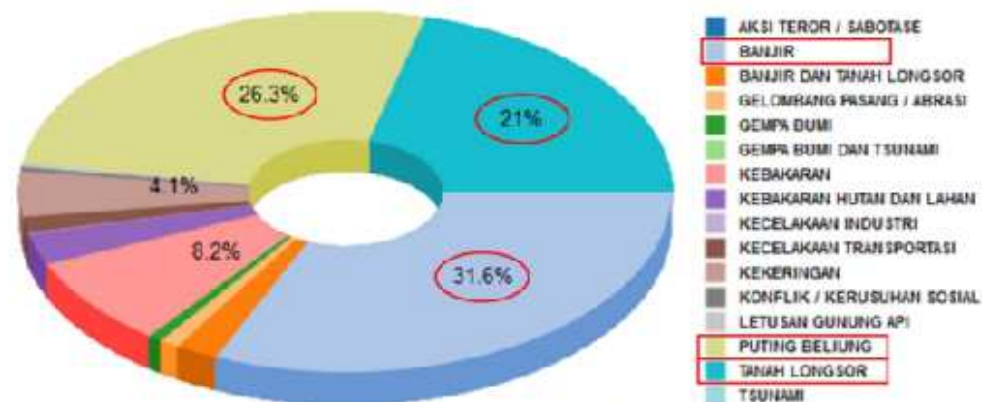
- Archipelagic country ~ 17,504 islands, right at the equatorial line;
- 4 M-km² width of ocean and 2 M-km² land, 6,000 km distance from east to west, and 80,000 km of coastal length;
- Exposed by 3 types of rain, > 220 seasonal variation zone.
- Located on a meeting point of several tectonic plates, continental plates: the Eurasian Plate and Australian Plate ; and oceanic plates: the Philippine Sea Plate and Pacific Plate.
- 150 volcanoes parts of the Pacific Ring of Fire

DISASTER IN INDONESIA

- Indonesia is one of the most disaster vulnerable country.
- On average, 350 disasters occurred in each province during 2010-2017 period.
- Hydrometeorological related disasters covering more than 50% of occurrence
- 31.6% Flood; 26.3% small scale tornado; 21% Landslide.



Disaster occurrence map on 2010-2017 (Source: BNPB)



Disaster Data 2010-2017 (Source: BNPB)

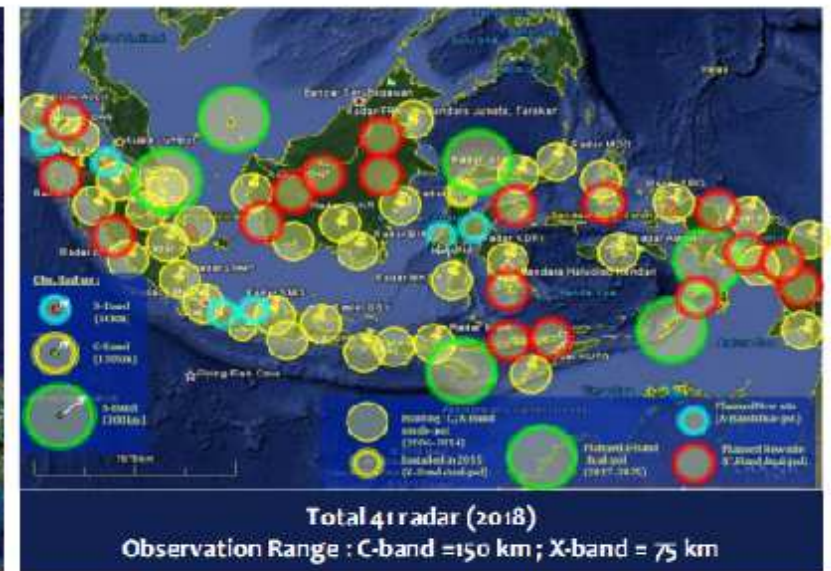
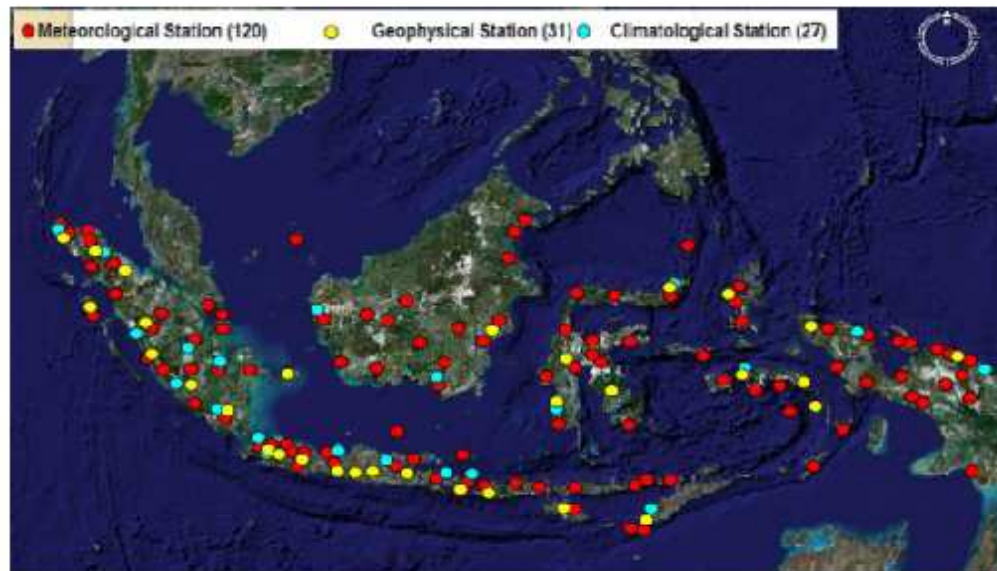
An accurate and multi- timescale forecasting needed for disaster mitigation plan



BMKG (METEOROLOGICAL, CLIMATOLOGICAL, AND GEOPHYSICS AGENCY)



BMKG OBSERVATION NETWORK



109 meteorological stations in airports and 2 MWO



AWS Total 361 sites :
178 BMKG Station
183 outside BMKG Station



Total 22 radiosonde station & 2
Wind Profiler



AWOS in 91 Airports



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BMKG BROADCAST INFORMATION

FRIDAY, SEPTEMBER 13, 2019 INDONESIA STANDARD TIME 05:24:48 WIB / 22:24:48 UTC ID EN

PROFILE WEATHER CLIMATE AIR QUALITY EARTHQUAKE & TSUNAMI IT & INFRASTRUCTURE

Weather Forecast

Denpasar	Serang	Bengkulu	Yogyakarta
27°C	27°C	23°C	20°C

13 September 2019 | Bali
Waspadalah potensi tinggi gelombang laut dapat mencapai 2 meter atau lebih di sekitar perairan Selatan Bali. [More Information...](#)

Early Warning

Latest Earthquake

13 Sep 2019, 02:02 WIB
Magnitude 3.4
Depth 10 km
Location 2.60 LS - 140.71 BT
Pusat gempa berada di darat 7 km BaratDaya Kota Jayapura
Felt (MMI Scale)-III Jayapura

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4.9 out of 5 - Based on the opinion of 1,975 people

Community See All

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DIRGAHAYU REPUBLIK INDONESIA

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The official Twitter of BMKG Indonesia - Twitter resmi BMKG - Informasi Cuaca, Iklim, dan Gempabumi di Indonesia - Badan Meteorologi, Klimatologi, dan Geofisika



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Badan Meteorologi, Klimatologi, dan Geofisika
Weather

★★★★☆
49,837

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Informasi Cuaca, Iklim, Kualitas Udara, dan Gempabumi dalam satu pengaman

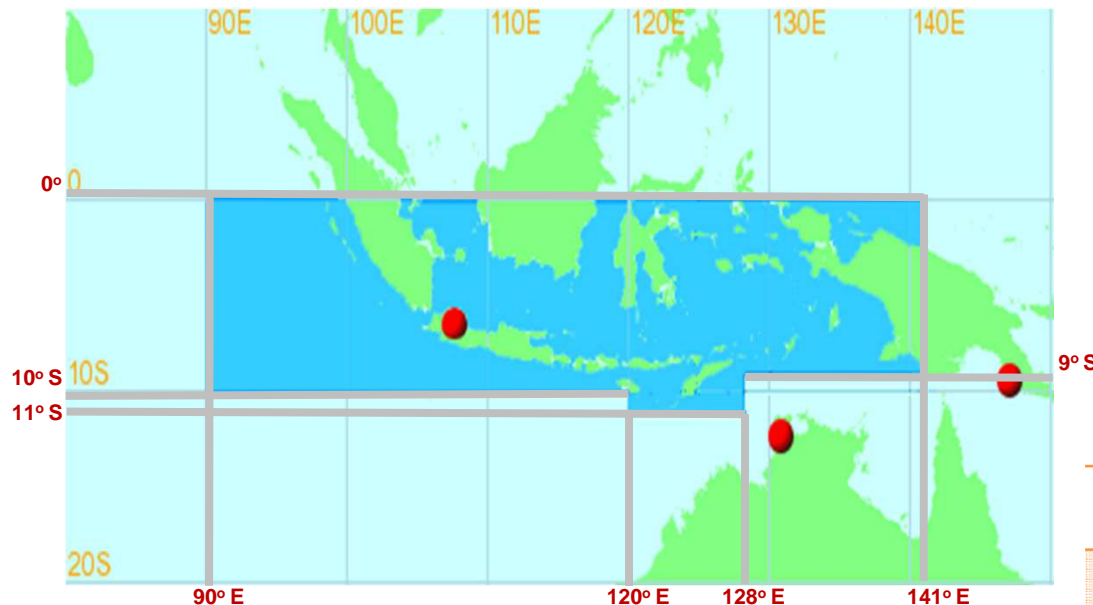
Informasi cuaca seluruh Kabupaten/Kota di Indonesia dalam 3 hari


Informasi dan notifikasi gempabumi terkini M > 5.0 dan dirangsang di seluruh wilayah Indonesia


Informasi dan dengan peta interaktif



Jakarta Tropical Cyclone Warning Center (TCWC Jakarta)



 Area of Responsibility

 Area of Monitoring

- Mandate of the World Meteorological Organization (WMO)
- first operated in September 2007

International obligations

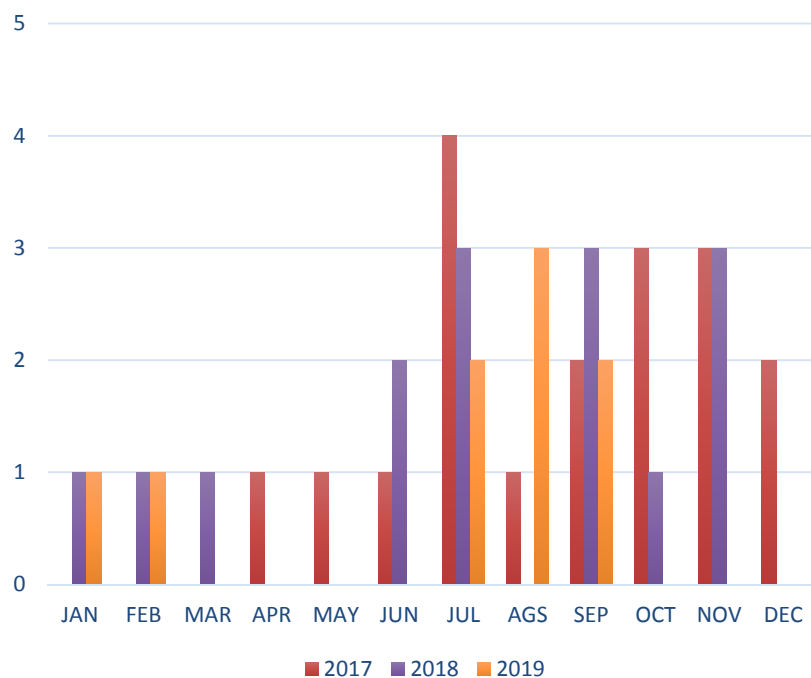
Forecast and early warning of tropical cyclones that grow in the area of responsibility.

National obligations

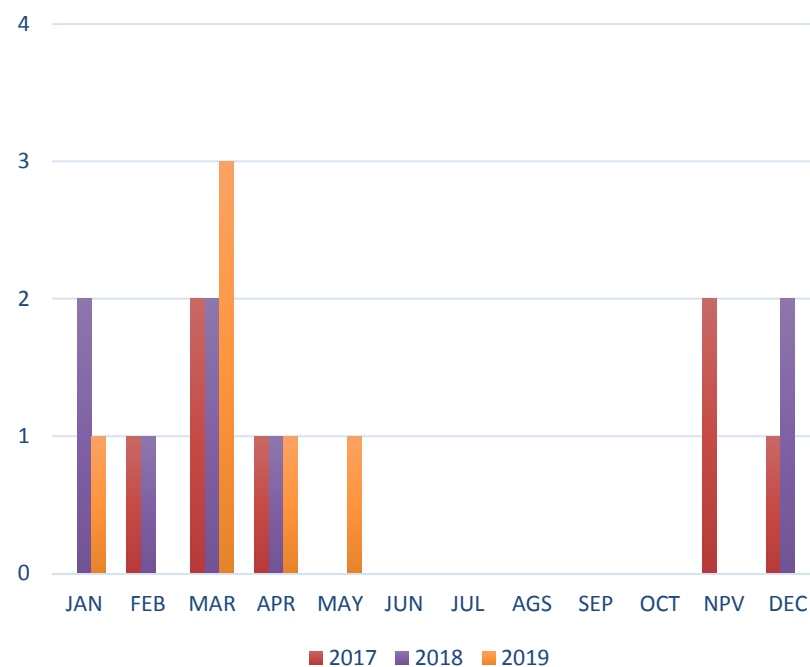
Forecast and early warning of the impact of tropical cyclones on Indonesian territory.

statistics of tropical cyclones in Indonesia

Number of tropical cyclone event in Northern Indonesia

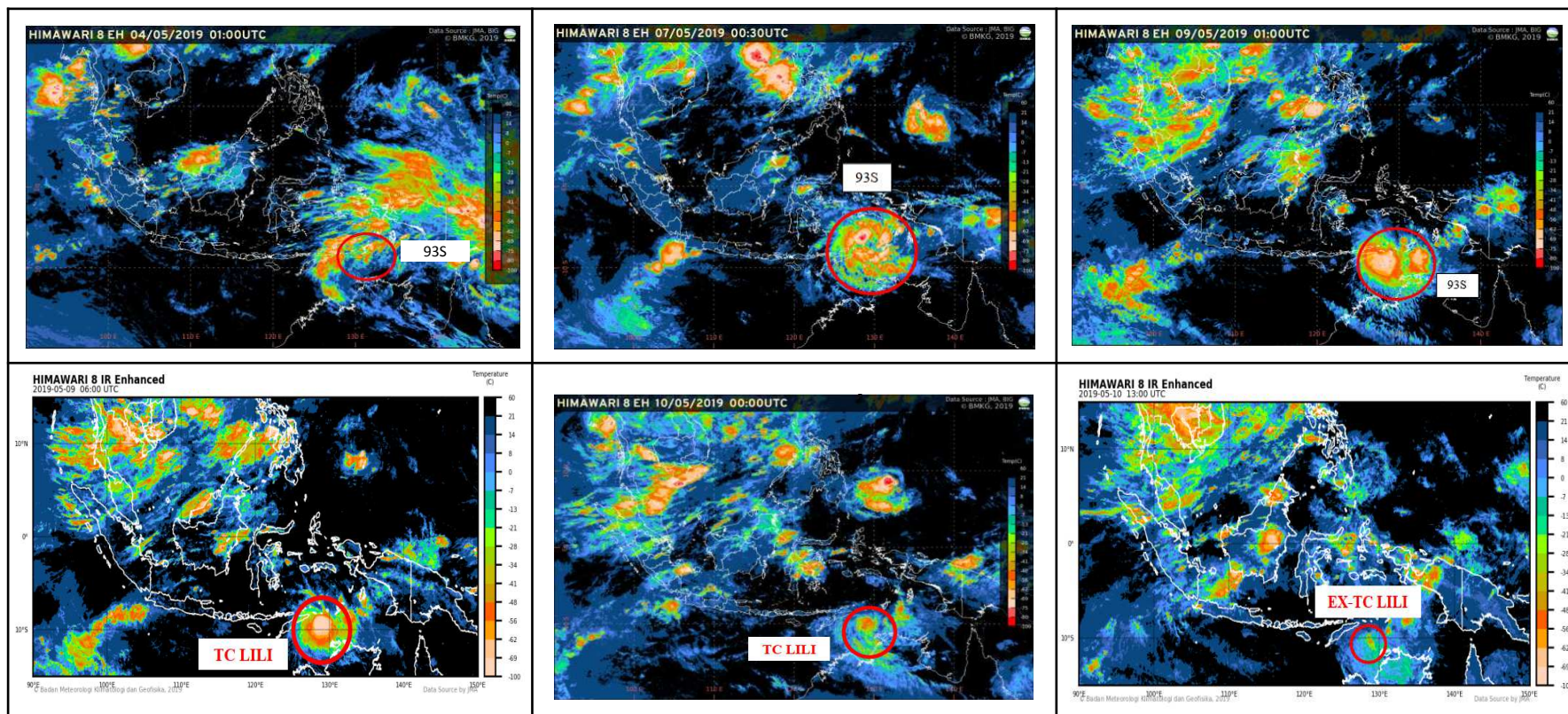


Number of tropical cyclone event in Southern Indonesia

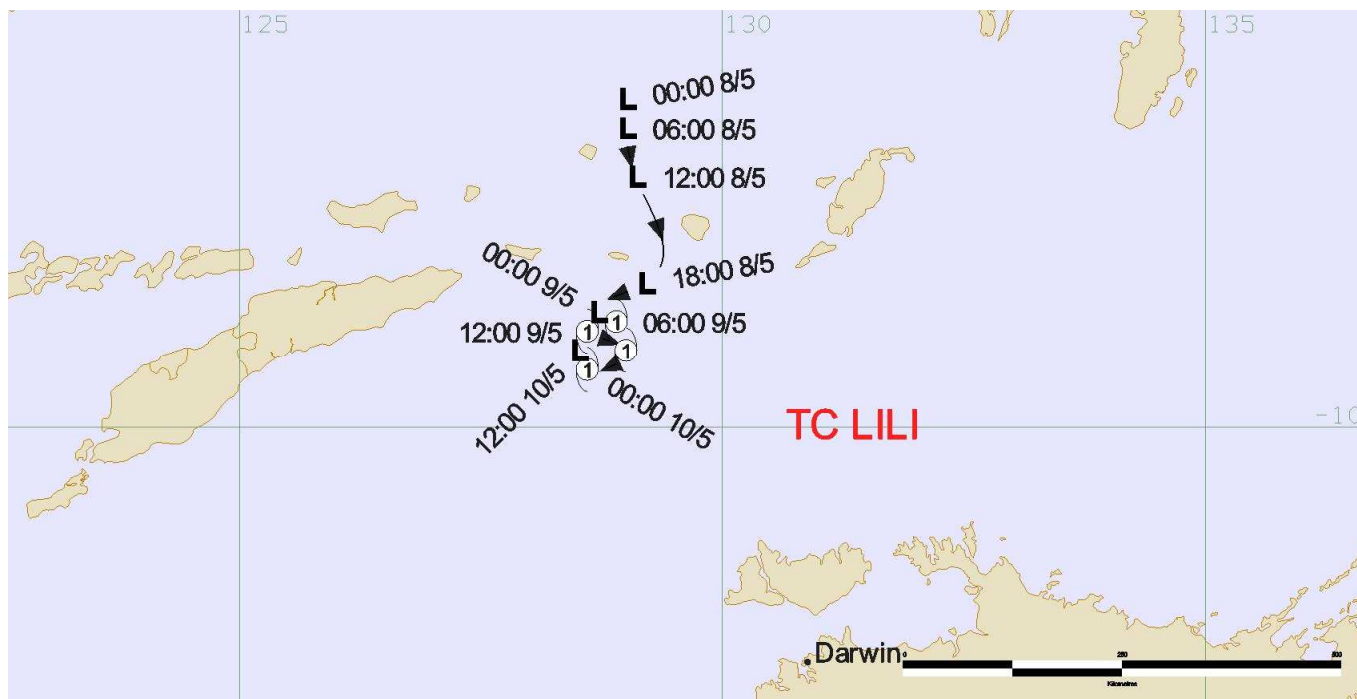


TROPICAL CYCLONE LILI

THE DEVELOPMENT OF TC LILI



TROPICAL CYCLONE LILI TRACK



Date	Time (UTC)	Latt	Long	Pressure (hpa)	Wind (kt)
4/5/2019	01.00	9.7 S	131.2 E	1007	15
7/5/2019	00.30	6.0 S	128.9 E	1006	20
9/5/2019	01.00	8.8 S	128.7 E	1000	30
9/5/2019	06.00	8.9 S	128.9 E	997	35
10/5/2019	00.00	9.4 S	128.6 E	999	40
10/5/2019	13.00	9.2 S	128.5 E	1006	30





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- **May 4**, based on last 12 hours satellite imagery, it was intensive convective activity but not well organized yet
- **May 7**, the intensity of convective cloud patterns increases. The minimum air pressure reaches 1006 hpa and the maximum wind speed is 20 knots.
- **May 9, 01:00 UTC**, maximum wind speed increased to 30 knots with a minimum pressure of 1000 hpa, well organized cloud pattern
- **May 9, 06:00 UTC**, System strengthened, with a maximum speed is 35 knots and the pressure is 997 hpa
- **May 10, 00.00 UTC**, maximum wind speed reaches 40 knots and the pressure is 999 hpa
- **May 10, 13:00 UTC**, Tropical Cyclone Lili weakens with a maximum wind speed 30 knots with a pressure 1006 hpa

IMPACT OF TROPICAL CYCLONE LILI



- Floods in Southwest Maluku
- Hundreds of people displaced
- Strong winds cause fallen trees and damaged buildings

IMPACT OF TC LILI



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NEXT TROPICAL CYCLONE IN DONESIA

Jakarta TCWC Area of Responsibility^	
List A	List B
Anggrek	Anggur
Bakung	Belimbing
Cempaka	Duku
Dahlia	Jambu
Flamboyen	Lengkeng
Kenanga	Mangga
Lili	Nangka
Mawar	Pisang
Seroja	Rambuta
Teratai	Sawo

MAWAR



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TERIMA KASIH