

DROUGHT CONDITION AND MANAGEMENT STRATEGIES IN INDONESIA

Indonesia Agency for Meteorology, Climatology and Geophysics (BMKG)
Ministry of Forestry, Republic of Indonesia.

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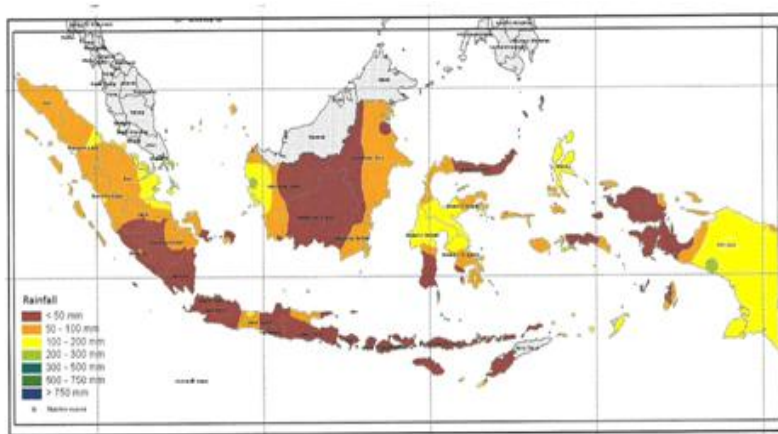


Monthly rainfall distribution of Indonesia 1997

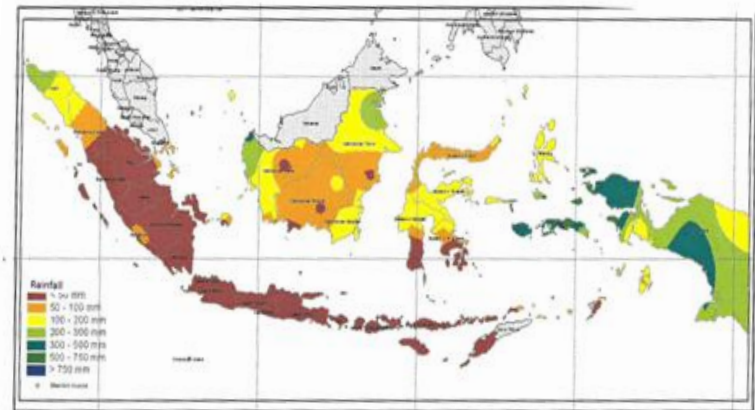
El Nino year



June 1997



July 1997



August 1997



DROUGHT PHENOMENA IN INDONESIA



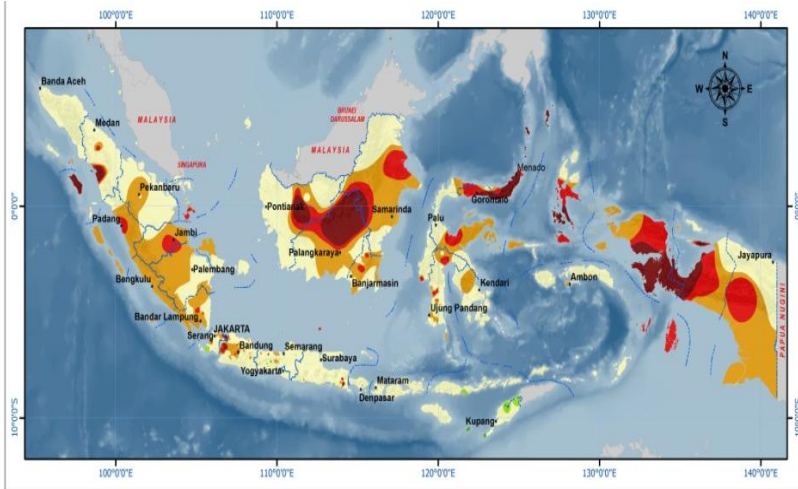
- Drought in Indonesia generally occurs in dry season period.
- The impacts of drought worsen when occur in coincidence with El Nino → severe drought impacts in 1997, 2002, and 2007, associated with forest fires in Sumatra and Kalimantan.
- Other factors influencing drought in Indonesia: nature of land/forest, desertification, climate anomaly



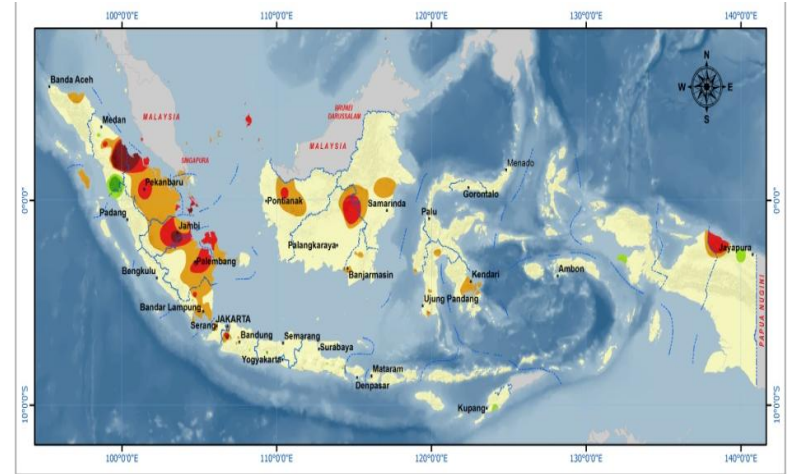
Drought Monitoring and Early Warning System

Standardized Precipitation Index (SPI) 1 – Month of Indonesia 1997, El Nino year

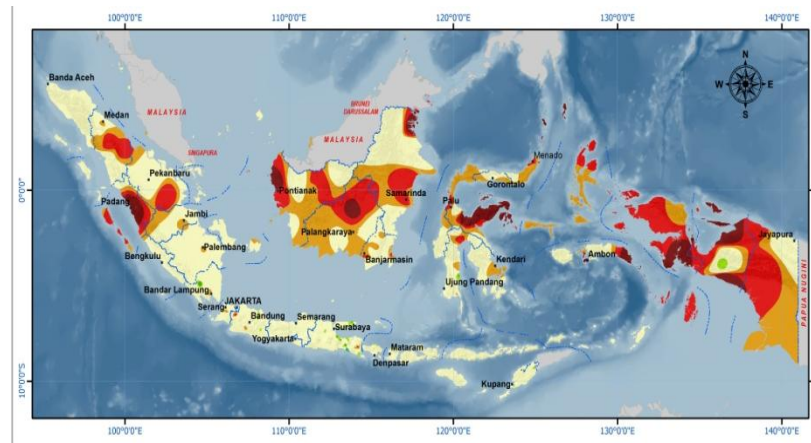
June 1997



July 1997



August 1997





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BADAN METEOROLOGI, KLIMATOLOGI, DAN GEOFISIKA

Climate Early Warning System

Climate Early Warning System

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SEARCH

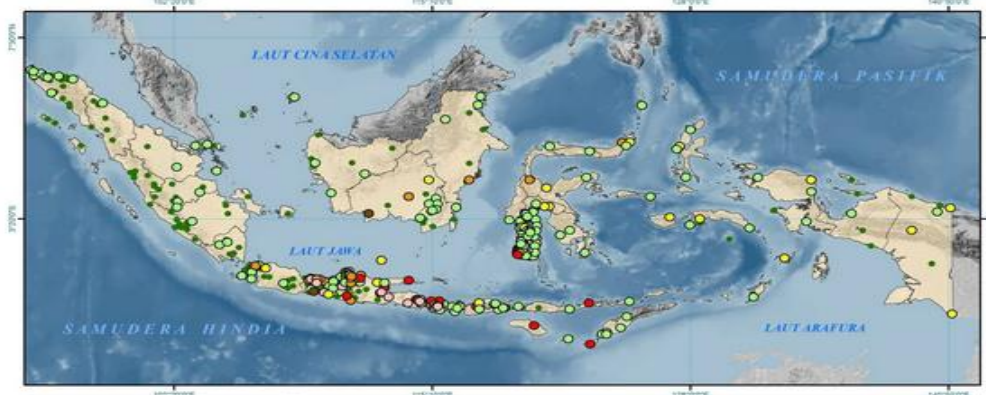
SISTEM OBSERVASI INFORMASI IKLIM EKSTREM DISEMINASI TERKINI PETA MITIGASI REPOSITORY

INFORMASI PENTING

Website CEWS ini masih dalam tahap pembangunan. Segala isi didalamnya masih bersifat sementara. Masukan untuk peningkatan kualitas informasi dapat disampaikan ke admin.cews@bmkg.go.id.
Terimakasih

Pilih Peta Pilih

Monitoring Hari Tanpa Hujan Berturut-turut



MONITORING HARI TANPA HUJAN BERTURUT-TURUT

MONITORING OF CONSECUTIVE NO RAIN DAYS

UPDATED 20 OCTOBER 2013

INDONESIA



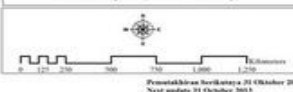
KLASIFIKASI (Jumlah Hari)

Classification (Days)

- 1 - 5 Sangat Pendek (Very Short)
- 6 - 10 Pendek (Short)
- 11 - 20 Menengah (Moderate)
- 21 - 30 Panjang (Long)
- 31 - 60 Sangat Panjang (Very Long)
- > 60 Kekeringan Ekstrem (Extreme Drought)
- Masih ada hujan s/d updating (No Drought)

KETERANGAN (LEGEND)

- ★ Ibukota Propinsi (Province Capital)
- Ibukota Kabupaten (District Capital)
- Batas Propinsi (Province Boundary)
- Batas Kabupaten (District Boundary)



PERINGATAN DINI KEKERINGAN

Update 01 November 2013, 23:46:27 WIB
Ditujukan ke :
Jakarta, Sulut, Sulteng, Sulsel, Sultra, Sulbar
Peringatan Dini Kekeringan: update
31/10/2013; Daerah tidak hujan berturut-turut 30 s/d 60 hari di Kab. Wajo bag. barat;
infoweb.cews.bmkg.go.id (CEWS BMKG)

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Government Regulation No. 45/2004

Article 18

Protection of *forest fires* is to avoid damage to forests caused by:

- a. human actions
- b. natural forces.

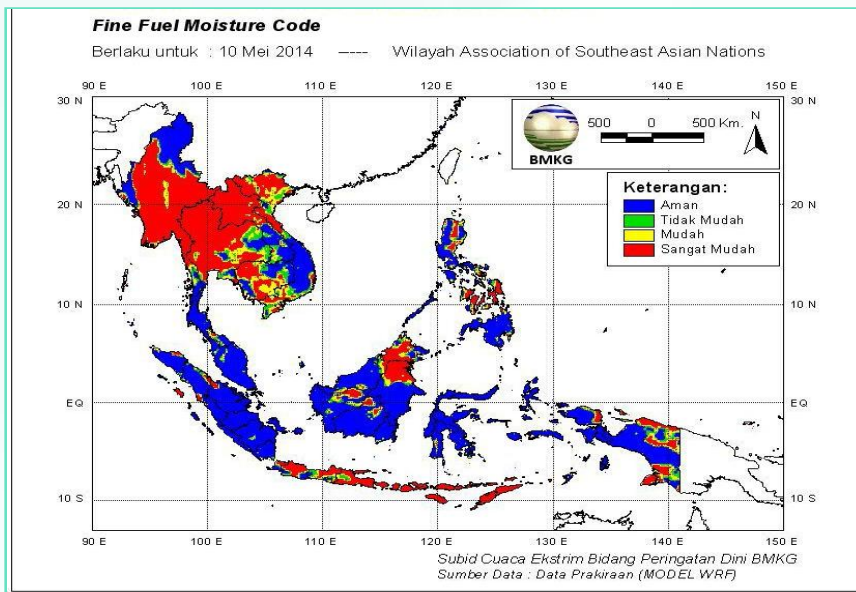
Article 23

In order to prevent *forest fires*, included : 1. create a map of the national forest flammability; 2. develop a forest fire information system; 3. establish a *partnership* with the community; 4. set the standard fire control equipment; 5. education programs and campaigns to make fire control; 6. set fire prevention training patterns; and 7. implement guidance and supervision

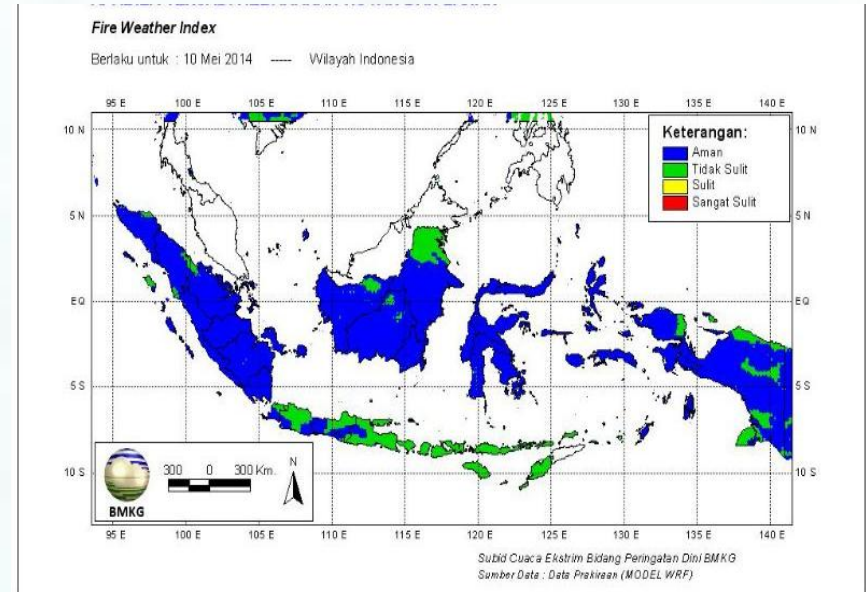
FIRE DANGER RATING SYSTEM (FDRS) Numerical Weather Prediction (NWP)



Fine Fuel Moisture Index



Level of Difficulty in Fire Management



Gaps and Expectations

- Capacity building in seasonal sub seasonal climate prediction (in relation to El Nino, rainfall anomaly, etc);
- capacity development on vulnerability, risk and impact assessment of drought.
- Drought prediction is essential for salt industry
- Public awareness campaign on better management of water, land and forest treatment
- Partnership and cooperation for sharing and enhancing drought monitoring and prediction



BMKG

Thank you...

