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Weekly Fire Situation Info

August 12, 2002

List of Information:

- Current Fire Danger Rating Index (1-12 August 2002) of six locations on East Kalimantan: Nunukan, Tanjung Selor, Tanjung Redeb, Tarakan, Samarinda and Balikpapan (figure 1-6)
- Average Fire Danger Rating Index from the six locations on East Kalimantan (figure 7 ; please note that these six locations are along the coast of East Kalimantan and therefore not representative for East Kalimantan inland area).
- Current Fire Danger Rating Index of Samarinda & Balikpapan compared to 1978-2000 and 1997 - 1998 (El Nino), based on monthly display (figure 8).
- Hotspot Map of East Kalimantan Detected by NOAA-AVHRR on August 6,8,9,12, 2002 (figure 9)
- Hotspot Coordinate Table of East Kalimantan (Table 3)
- Regional Surface Winds and Observed Smoke Haze/Hot Spots over Cloud-free Areas since August 06-12, 2002 (figure 10)
- Weather prediction for the next five days of five locations on East Kalimantan (Tanjung Selor, Tanjung Redeb, Tarakan, Samarinda and Balikpapan ; figure 11-15)
- Visibility Map since August 06-12, 2002 (figure 16)
- Temperature Map since August 06-12, 2002 (figure 17)
- Relative Humidity Map since August 06-12, 2002 (figure 18)
- Days since rain Map since August 06-12, 2002 (figure 19)
- Article :
- Summary Table of Current Weekly Fire Situation Information (Table 1)
- Last Week Summary Table of Weekly Fire Situation Information on August 05, 2002 (Table 2)
- List of Internet sites which contains fire related information (Table 4)

Summary

From the six locations where the weather data acquired, **Tanjung Redep**(08/08/02) **was on the extreme** fire danger Level, Samarinda was on the high fire danger level, meanwhile *Tanjung Selor was on the moderate level*, Balikpapan, Tarakan(08/08/02) and Nunukan were on the Low level (See figure 1 – 6). On average, the Fire Danger Rating was on Low level. (*figure 7, Average of 6 stasiun cuaca*)

According to weather forecast for the next five days (August 12–16, 2002), there will quite a lot of cloud coverage for the most of East Kalimantan area, otherwise sunny, warm and humid condition will be expected (figure 11-15; weather forecast).

According to Days Since Rain Map, during last week, there were rain on East Kalimantan Province but not spread evenly (figure 19 ; Days Since Rain Map).

According to NOAA Satellite's sensor that we received from FFPMP/PKA – JICA in Bogor, there were some hotspots detected on East Kalimantan Province on August 6,8,9,12, 2002. Total hotspots detected were 61, 11 hotspots on Tanjung Redep, 7 hotspots on Nunukan, 10 hotspots on Kutai Kertanegara, 7 hotspots on Kutai Barat, 6 hotspots on Bontang and 11 hotspots on Pasir. The local Forestry Service reported that there were no wild fire activities on their area, therefore the hotspots detected might be caused by the small scale agriculture activities by local community. High cloud coverage over East Kalimantan caused the limitation for the NOAA satellite's sensor (figure 9).

The visibility on East Kalimantan was on normal condition (5-20 km) (figure 16; Visibility Map).

Summary Table

Area	FDR	Hotspot	District Report	Weather Forecast	Readiness Level				
					N	3	2	1	Note
Samarinda	High	No Detected	No Activity	Clouds, sunny, warm and humid		X			
Balikpapan	Low	No Detected	No Activity	Clouds, sunny, warm and humid	X				
Tanjung Redeb/Berau	Extreme	7	No Activity	Clouds, sunny, warm and humid		X			
Tanjung Selor/Bulungan	Moderate	No Detected	No Activity	Clouds, warm and humid		X			
Tarakan	Low	No Detected	No Activity	Clouds, warm and humid	X				
Nunukan	Low	7	No Activity	-	X				
Kutai Timur/Sangatta	-	9	No Activity	-					
Kutai Kertanegara/Tengah	-	10	No Activity	-					
Kutai Barat/Melak	-	7	No Activity	-					
Malinau	-	No Detected	No Report	-					
Pasir	-	11	No Activity	-					
Bontang	-	6	No Activity	-					
Rata-rata 6 Wilayah	Moderate	61	-	Clouds, sunny, warm and humid		X			

Table 1 : Summary information of FDR, Hotspot, Weather Forecast and Readiness Level

Summary Table for August 05, 2002

Area	FDR	Hotspot	District Report	Weather Forecast	Readiness Level				
					N	3	2	1	Note
Samarinda	High	No Detected	No Activity	Clouds, showers and humid		X			
Balikpapan	Low	No Detected	No Activity	Clouds, showers and humid	X				
Tanjung Redeb/Berau	Extreme	6	No Activity	Clouds and humid		X			
Tanjung Selor/Bulungan	Moderate	1	No Activity	Clouds, warm and humid		X			
Tarakan	Low	No Detected	No Activity	Clouds, warm and humid	X				
Nunukan	Low	1	No Activity	-	X				
Kutai Timur	-	No Detected	No Activity	-					
Kutai kertanegara/ Tengah	-	4	No Activity	-					
Kutai Barat	-	1	No Activity	-					
Malinau	-	No Detected	No Report	-					
Pasir	-	4	No Activity	-					
Bontang	-	-	No Activity	-					
Rata-rata 6 Wilayah	Moderate	17	-	Clouds, warm and humid	X				

Table 2 : Summary information of FDR, Hotspot, Weather Forecast and Readiness Level

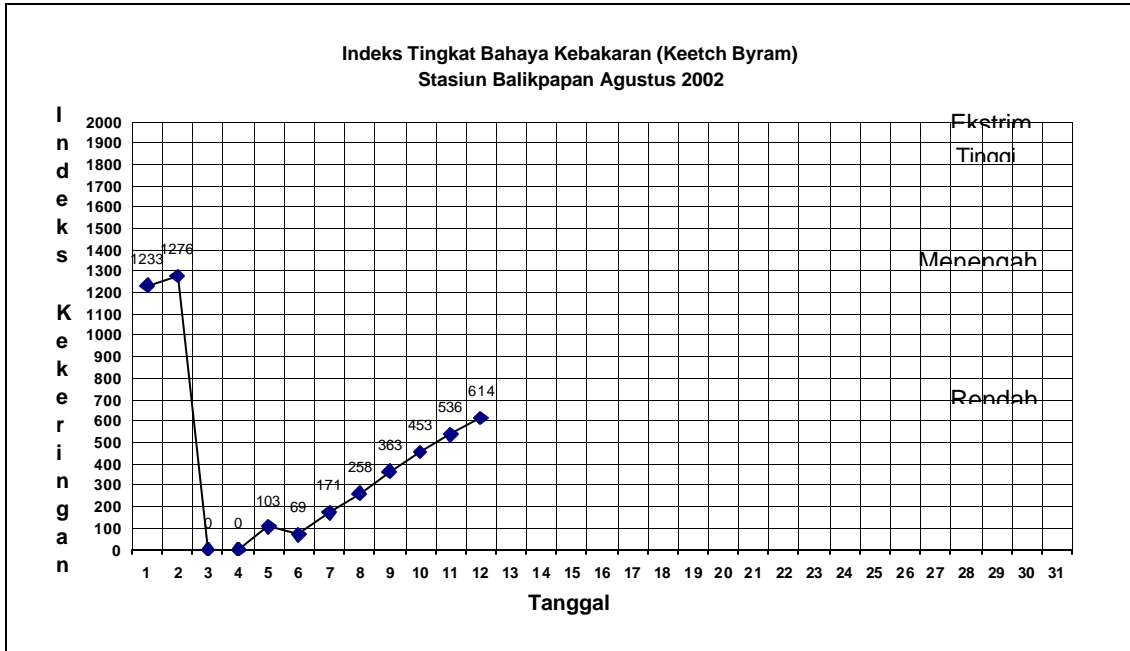


Figure 1 : FDR stasiun Balikpapan

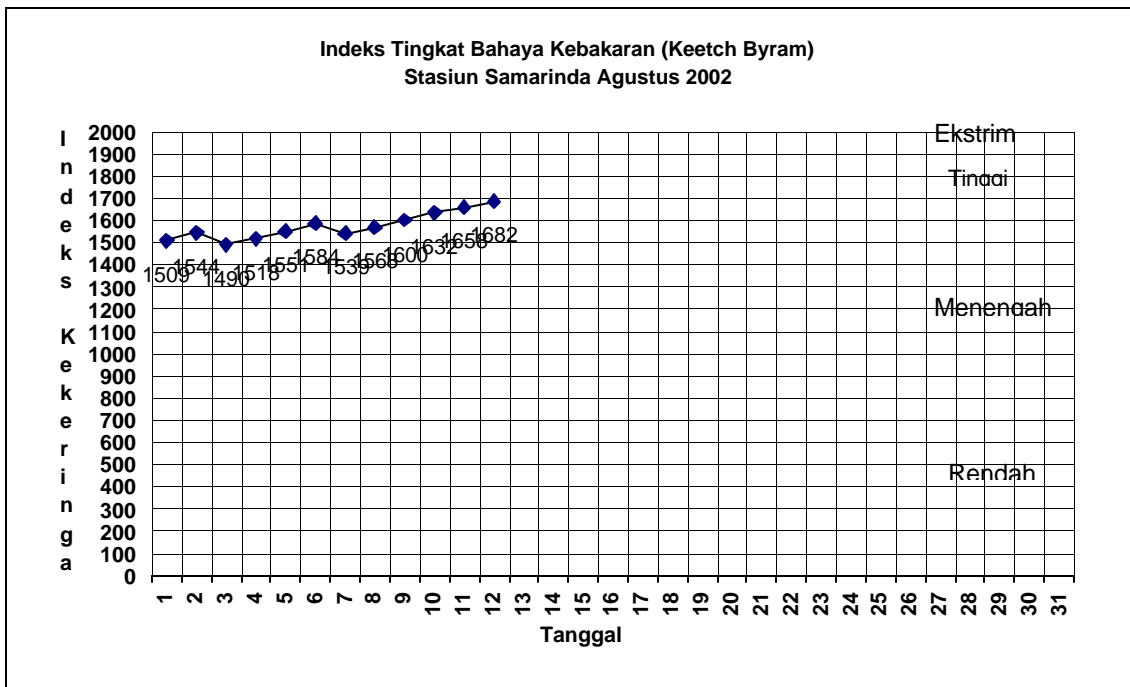


Figure 2 : FDR stasiun Samarinda

Source : BMG Balikpapan

Keterangan :
 0 - 1000 = Low
 1000 - 1500 = Moderate
 1500 - 1750 = High
 1750 - 2000 = Extreme

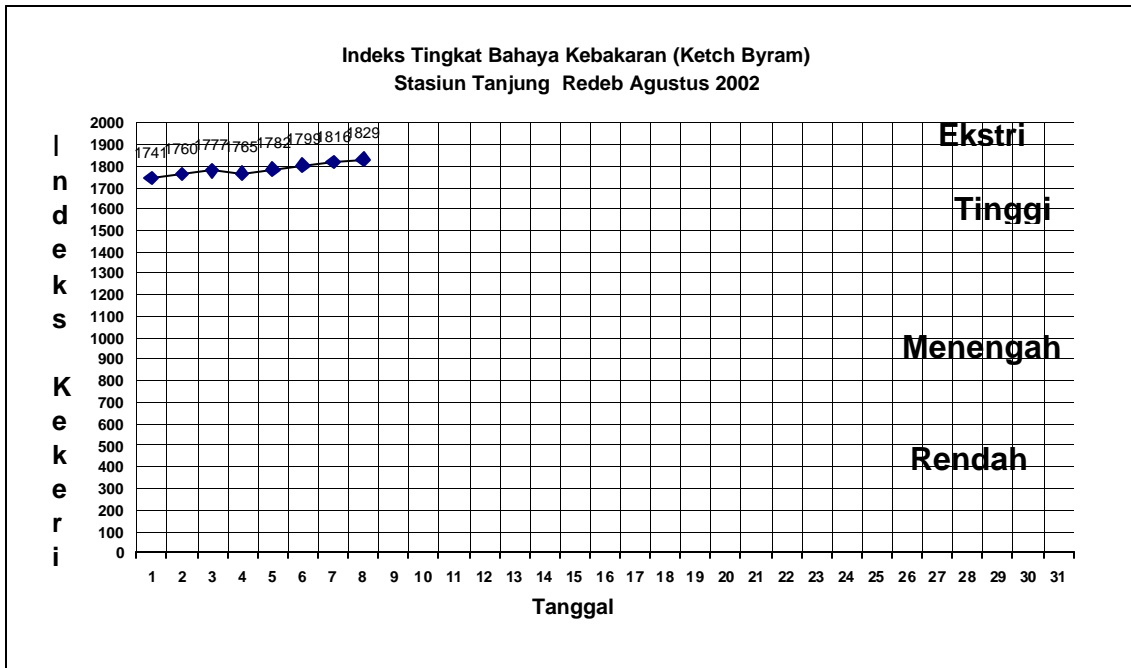


Figure 3 : FDR stasiun Tanjung Redeb

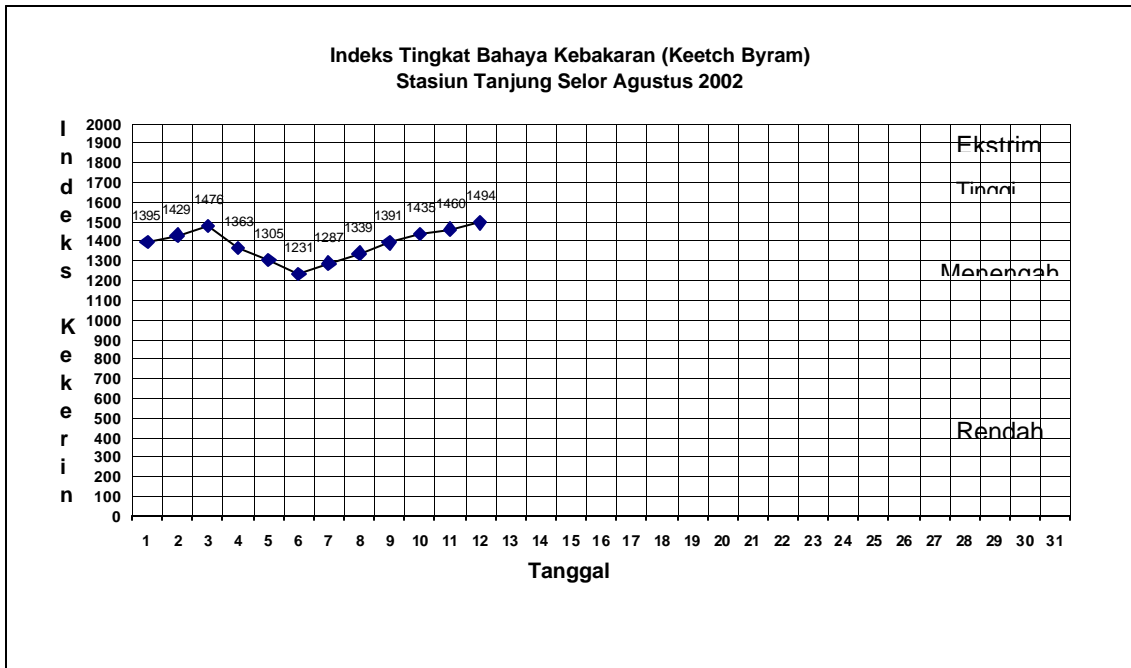


Figure 4 : FDR stasiun Tanjung Selor

Source : BMG Balikpapan

Keterangan :

- 0 - 1000 = Low
- 1000 - 1500 = Moderate
- 1500 - 1750 = High
- 1750 - 2000 = Extreme

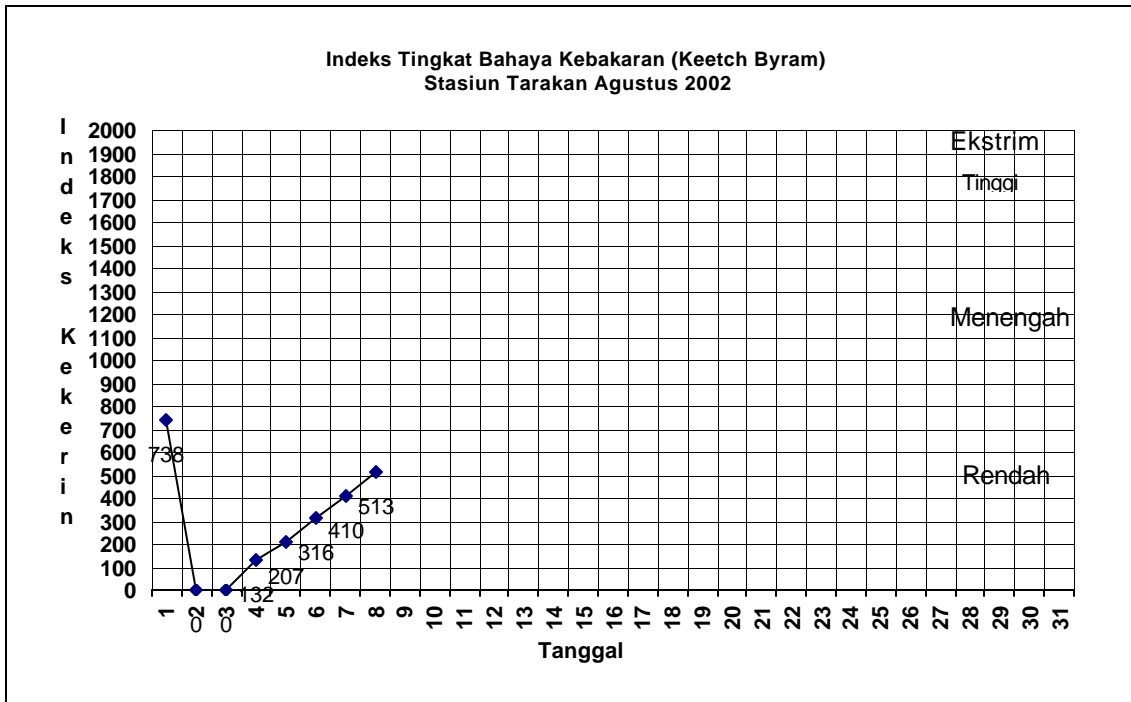


Figure 5 : FDR stasiun Tarakan

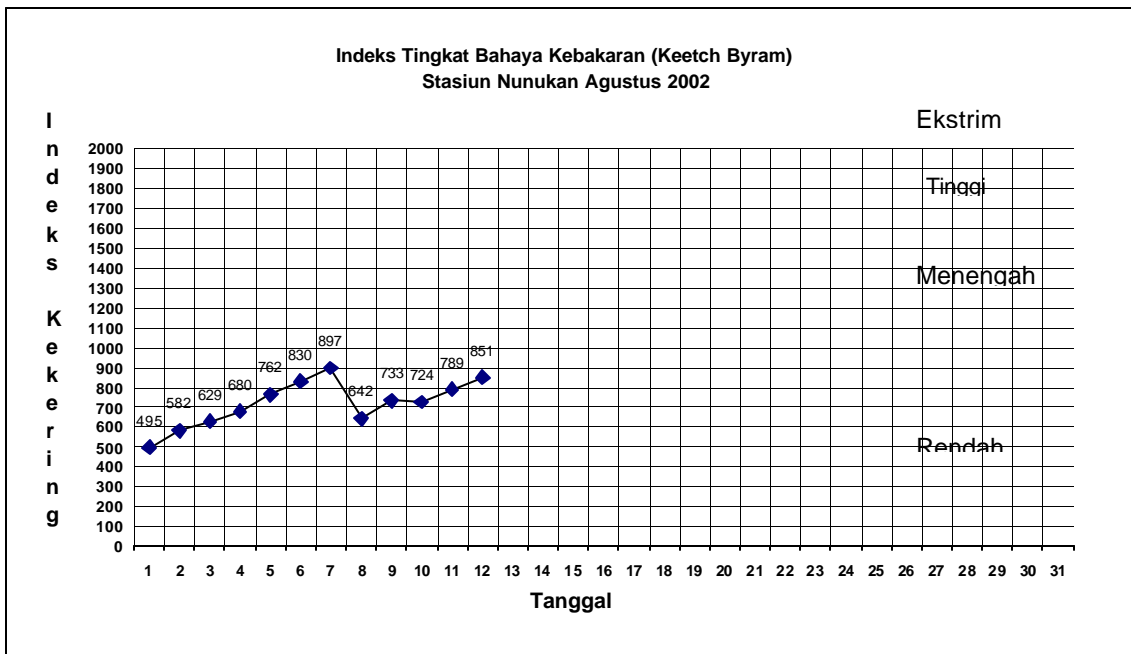


Figure 6 : FDR stasiun Nunukan

Source : BMG Balikpapan

Keterangan :

- 0 - 1000 = Low
- 1000 - 1500 = Moderate
- 1500 - 1750 = High
- 1750 - 2000 = Extreme

**Indeks Tingkat Bahaya Kebakaran (Keetch Byram)
Rata-rata 6 Stasiun Agustus 2002**

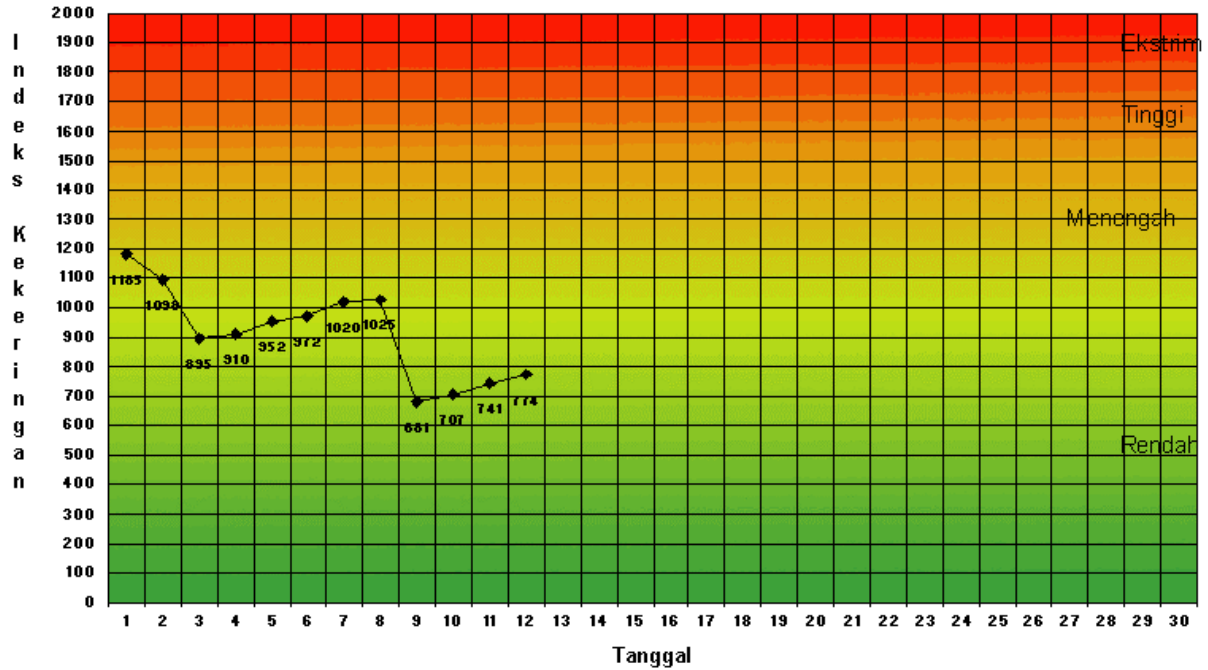
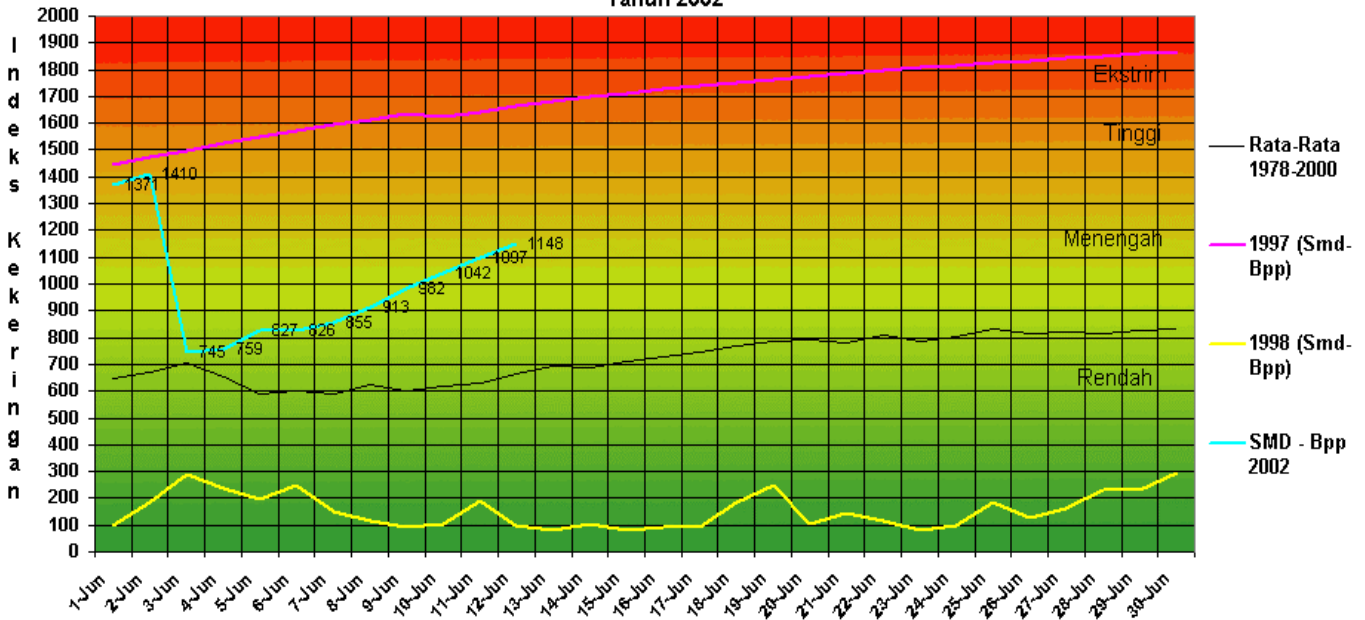


Figure 7 : Grafik rata-rata Indeks Tingkat Bahaya Kebakaran dari 6 stasiun

**Perbandingan Rata-rata Indeks Tingkat Bahaya Kebakaran Samarinda & Balikpapan, Bulan Agustus
Tahun 1978-2000, Tahun 1997 & Tahun 1998 (El Nino) dan
Tahun 2002**



Gambar 8 : Perbandingan Rata-rata Indeks Tingkat Bahaya Kebakaran Samarinda & Balikpapan, Bulan Agustus Tahun 1978-2000, Tahun 1997 & Tahun 1998 (El Nino) dan Tahun 2002

Source : BMG Balikpapan

Keterangan :
 0 - 1000 = Low
 1000 - 1500 = Moderate
 1500 - 1750 = High
 1750 - 2000 = Extreme

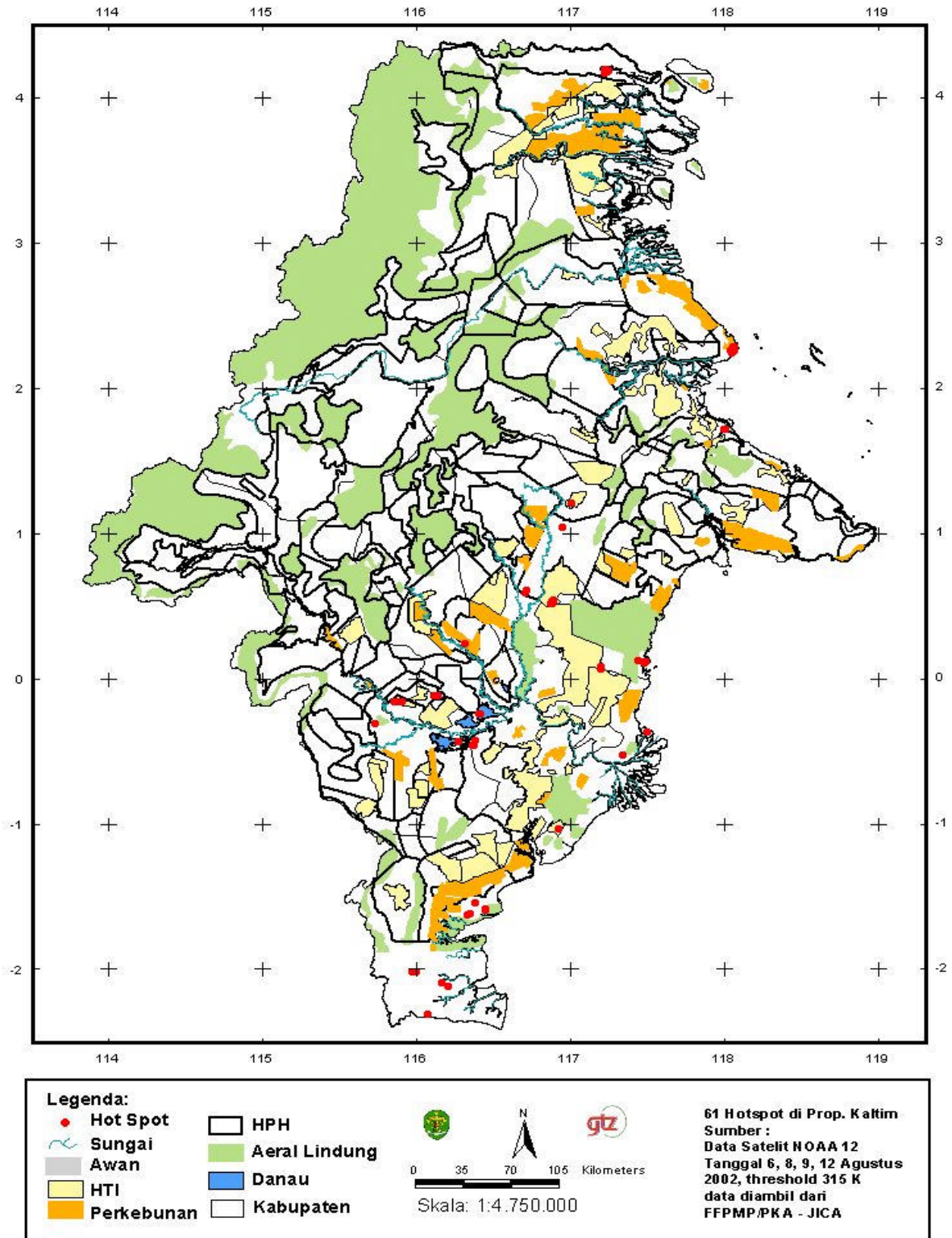


Figure 9 : Hotspot Map of East Kalimantan

Source : FFPMP/PKA - JICA

List of Hotspot Coordinate detected by NOAA-AVHRR Satellite

Tanggal 06 Agustus 2002

LATITUDE	LONGITUDE	KAPUPATEN	LOKASI
0.111	117.486	KOTAMADYA BONTANG	
0.112	117.493	KOTAMADYA BONTANG	
-0.163	115.893	KUTAI BARAT	
-0.438	116.280	KUTAI BARAT	
-0.432	116.388	KUTAI TENGAH	HPH PT ITCI
-0.465	116.371	KUTAI TENGAH	HPH PT ITCI
-0.464	116.379	KUTAI TENGAH	HPH PT ITCI
-0.530	117.348	KUTAI TENGAH	
0.101	117.488		
-0.308	115.740	KUTAI BARAT	
1.713	118.008	BERAU	HPH PT SEGARA INDOCHEM
1.714	118.015	BERAU	HPH PT SEGARA INDOCHEM
1.035	116.955	KUTAI TIMUR	HPH PT KIANI LESTARI
2.239	118.056	BERAU	
-0.161	115.902	KUTAI BARAT	
-0.160	115.910	KUTAI BARAT	
0.538	116.896	KUTAI TIMUR	HTI PT. KIANI HUTAN LESTARI
0.527	116.890	KUTAI TIMUR	HTI PT. KIANI HUTAN LESTARI
0.528	116.898	KUTAI TIMUR	HTI PT. KIANI HUTAN LESTARI
0.515	116.877	KUTAI TIMUR	HTI PT. KIANI HUTAN LESTARI
0.516	116.885	KUTAI TIMUR	HTI PT. KIANI HUTAN LESTARI
1.205	117.009	KUTAI TIMUR	HTI PT. SUMALINDO LESTARI JAYA
0.238	116.322	KUTAI TENGAH	PT PAKAR MULA BAKTI
2.280	118.061	BERAU	PT. SENTOSA KALIMANTAN JAYA (Perkebunan)
2.281	118.068	BERAU	PT. SENTOSA KALIMANTAN JAYA
2.282	118.075	BERAU	PT. SENTOSA KALIMANTAN JAYA
2.271	118.070	BERAU	PT. SENTOSA KALIMANTAN JAYA
0.602	116.717	KUTAI TIMUR	HPH PT KIANI LESTARI
0.591	116.712	KUTAI TIMUR	HPH PT KIANI LESTARI
-0.246	116.413	KUTAI TENGAH	
-0.245	116.421	KUTAI TENGAH	

Tanggal 08 Agustus 2002

LATITUDE	LONGITUDE	KAPUPATEN	LOKASI
-0.163	115.858	KUTAI BARAT	HPH-PT.NEW TIMBER RAYA CORP
0.076	117.205	KOTAMADYA BONTANG	HPH-PT.SEGARA INDOCHEM
0.066	117.207	KOTAMADYA BONTANG	HPH-PT.SEGARA INDOCHEM

Sumber : FFPMP/PKA-JICA

Tanggal 09 Agustus 2002

LATITUDE	LONGITUDE	KAPUPATEN	LOKASI
0.122	117.442	KOTAMADYA BONTANG	HPH-HSA-W
-0.374	117.506	KUTAI TENGAH	
-1.039	116.932	KUTAI TENGAH	
-2.123	116.210	PASIR	HPH-HSA-W
-2.316	116.081	PASIR	HPH-PT. PAMUKAN JAYA
-2.099	116.169	PASIR	HPH-TIDAK ADA DATA
-1.589	116.455	PASIR	
-1.598	116.457	PASIR	
-1.548	116.390	PASIR	HPH-Ex. PT.HAYAM WURUK
-1.627	116.341	PASIR	HPH-Ex. PT.HAYAM WURUK
-1.625	116.350	PASIR	HPH-Ex. PT.HAYAM WURUK
4.189	117.228	NUNUKAN	HPH-PT.JAMAKER
4.191	117.240	NUNUKAN	HPH-PT.JAMAKER
4.180	117.230	NUNUKAN	HPH-PT.JAMAKER
4.182	117.242	NUNUKAN	HPH-PT.JAMAKER
4.183	117.254	NUNUKAN	HPH-PT.JAMAKER
4.170	117.232	NUNUKAN	HPH-PT.JAMAKER
4.172	117.244	NUNUKAN	HPH-PT.JAMAKER
2.253	118.048	BERAU	HPH-PT.SENTOSA KALIMANTAN JAYA
2.255	118.061	BERAU	HPH-PT.SENTOSA KALIMANTAN JAYA
2.257	118.074	BERAU	HPH-PT.SENTOSA KALIMANTAN JAYA
2.245	118.063	BERAU	HPH-PT.SENTOSA KALIMANTAN JAYA
-2.024	115.998	PASIR	HTI-PT. HUTANI TRANS KENCANA
-2.023	116.007	PASIR	HTI-PT. HUTANI TRANS KENCANA

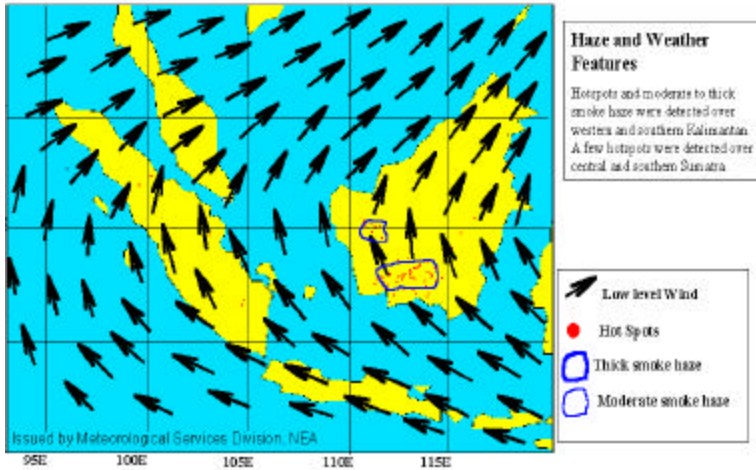
Tanggal 12 Agustus 2002

LAT	LONG	KABUPATEN	LOKASI
-0.122	116.118	KUTAI BARAT	HPH-PT.MARIMUN TIMBER
-0.117	116.148	KUTAI TENGAH	HPH-PT.MARIMUN TIMBER
-2.022	115.982	PASIR	HTI-PT. HUTANI TRANS KENCANA

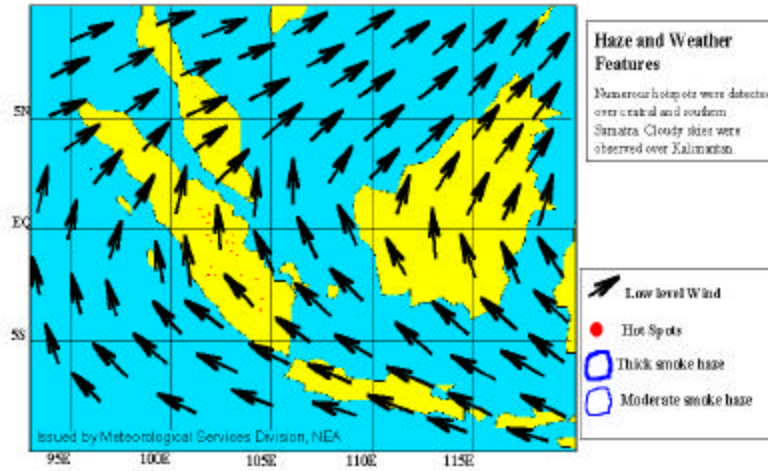
Table 3 ; List of Hotspot Coordinate of East Kalimantan

Source : FFPMP/PKA-JICA

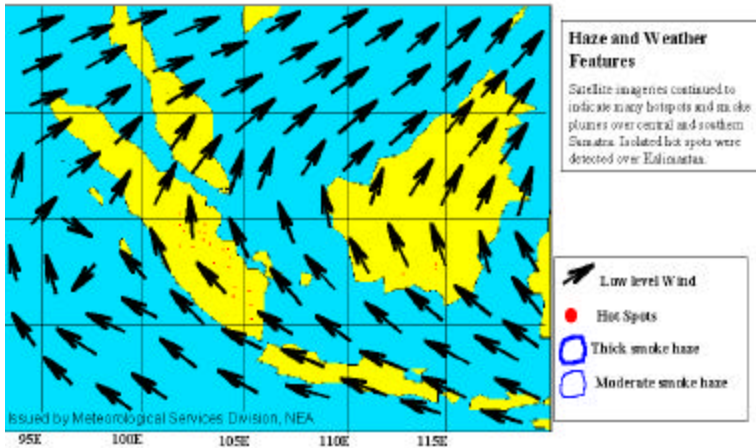
Regional Surface Winds and
Observed Smoke Haze/Hot Spots over Cloud-free Areas
Issued at 7:30 pm on 06 AUG 2002



Regional Surface Winds and
Observed Smoke Haze/Hot Spots over Cloud-free Areas
Issued at 7:30 pm on 07 AUG 2002



Regional Surface Winds and
Observed Smoke Haze/Hot Spots over Cloud-free Areas
Issued at 7:15 pm on 08 AUG 2002



Regional Surface Winds and
Observed Smoke Haze/Hot Spots over Cloud-free Areas
Issued at 7:00 pm on 12 AUG 2002

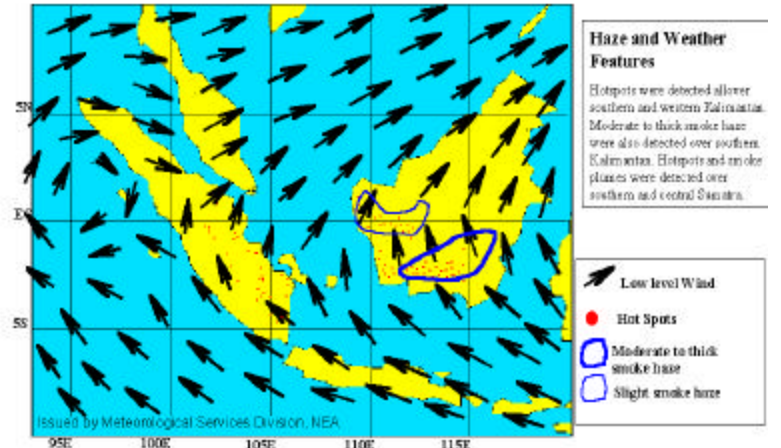


Figure 10 : Winds direction and Hotspot

Five Day Forecast for: BALIKPAPAN



Today

Clouds and sun; warm and humid.
High **28**. Max. UV 5. RealFeel Max.: **33**.



Tonight

Variable cloudiness and humid.
Low **24**. RealFeel Min.: **27**.



Tuesday

Clouds and sun; warm and humid.
High **29**. Low **24**. Max. UV 5. RealFeel Max.: **33**. Min.: **28**.



Wednesday

Very humid with clouds and sun.
High **28**. Low **24**. Max. UV 5. RealFeel Max.: **33**. Min.: **28**.



Thursday

Clouds and sun; warm and humid.
High **29**. Low **24**. Max. UV 5. RealFeel Max.: **33**. Min.: **28**.



Friday

Clouds and sun; warm and humid.
High **29**. Low **25**. Max. UV 5. RealFeel Max.: **34**. Min.: **29**.

Figure 11 : Weather for cast for Balikpapan

Five Day Forecast for: SAMARINDA/TEMINDUNG



Today

Clouds and sun; warm and humid.
High **31**. Max. UV 5. RealFeel Max.: **39**.



Tonight

Variable cloudiness and humid.
Low **22**. RealFeel Min.: **27**.



Tuesday

Clouds and sun; warm and humid.
High **32**. Low **22**. Max. UV 5. RealFeel Max.: **39**. Min.: **28**.



Wednesday

Steamy with clouds and sun.
High **31**. Low **22**. Max. UV 4. RealFeel Max.: **38**. Min.: **28**.



Thursday

Clouds and sun; warm and humid.
High **32**. Low **22**. Max. UV 4. RealFeel Max.: **39**. Min.: **28**.



Friday

Clouds and sun; warm and humid.
High **32**. Low **23**. Max. UV 5. RealFeel Max.: **39**. Min.: **29**.

Figure 12 : Weather for cast for Samarinda

Source : <http://www.accuweather.com>

Five Day Forecast for: TANJUNG REDEP/BERAU



Today
Mostly cloudy; warm and humid.
High **32**. Max. UV 6. RealFeel Max.: **43**.



Tonight
Mostly cloudy and sticky.
Low **23**. RealFeel Min.: **27**.



Tuesday
Some sun; warm and humid.
High **32**. Low **23**. Max. UV 8. RealFeel Max.: **44**. Min.: **28**.



Wednesday
Mostly cloudy; warm and humid.
High **31**. Low **24**. Max. UV 5. RealFeel Max.: **38**. Min.: **29**.



Thursday
Mostly cloudy; warm and humid.
High **31**. Low **23**. Max. UV 5. RealFeel Max.: **37**. Min.: **28**.



Friday
Clouds and sun; warm and humid.
High **32**. Low **24**. Max. UV 6. RealFeel Max.: **39**. Min.: **31**.

Figure 13 : Weather for cast for Tanjung Redep / Berau

Five Day Forecast for: TANJUNG SELOR



Today
Warm and humid with clouds.
High **31**. Max. UV 5. RealFeel Max.: **39**.



Tonight
Rather cloudy and steamy.
Low **23**. RealFeel Min.: **27**.



Tuesday
Some sunshine; warm and humid.
High **32**. Low **23**. Max. UV 8. RealFeel Max.: **43**. Min.: **28**.



Wednesday
Overcast; warm and humid.
High **31**. Low **23**. Max. UV 5. RealFeel Max.: **37**. Min.: **28**.



Thursday
Mostly cloudy; warm and humid.
High **31**. Low **23**. Max. UV 5. RealFeel Max.: **37**. Min.: **28**.



Friday
Mostly cloudy; warm and humid.
High **32**. Low **24**. Max. UV 5. RealFeel Max.: **38**. Min.: **31**.

Figure 14 : Weather for cast for Tanjung Selor / Bulungan

Source : <http://www.accuweather.com>

Five Day Forecast for: TARAKAN/JUWATA



Today

Cloudy; warm and humid.
High **31**. Max. UV 5. RealFeel Max.: **38**.



Tonight

Cloudy; warm and humid.
Low **23**. RealFeel Min.: **27**.



Tuesday

Clouds and sun; warm and humid.
High **32**. Low **23**. Max. UV 8. RealFeel Max.: **43**. Min.: **28**.



Wednesday

Cloudy; warm and humid.
High **31**. Low **23**. Max. UV 4. RealFeel Max.: **37**. Min.: **29**.



Thursday

Rather cloudy; warm and humid.
High **31**. Low **23**. Max. UV 5. RealFeel Max.: **38**. Min.: **28**.



Friday

Mostly cloudy; warm and humid.
High **32**. Low **24**. Max. UV 5. RealFeel Max.: **39**. Min.: **30**.

Figure 15 : Weather for cast for Tarakan

Source : <http://www.accuweather.com>

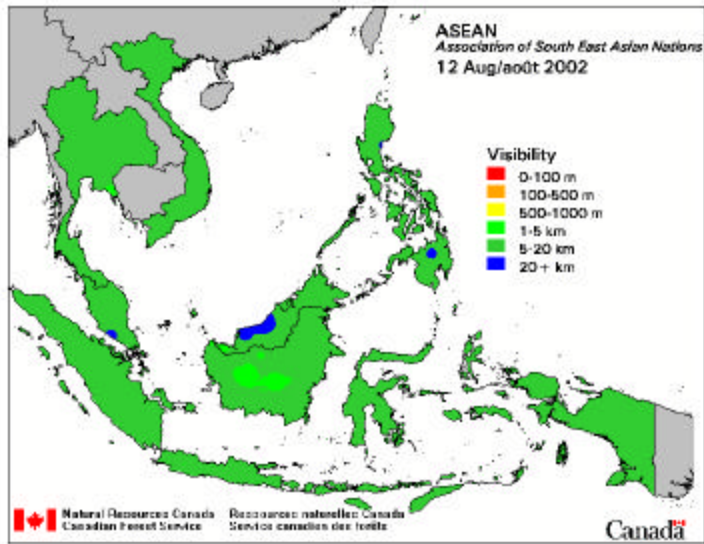
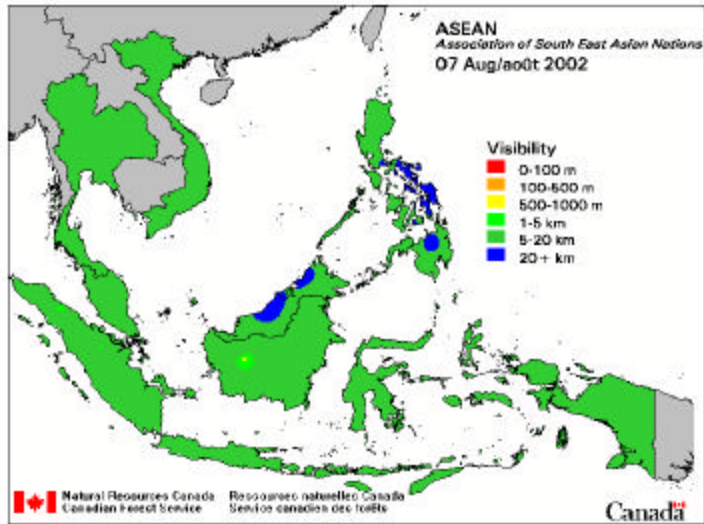
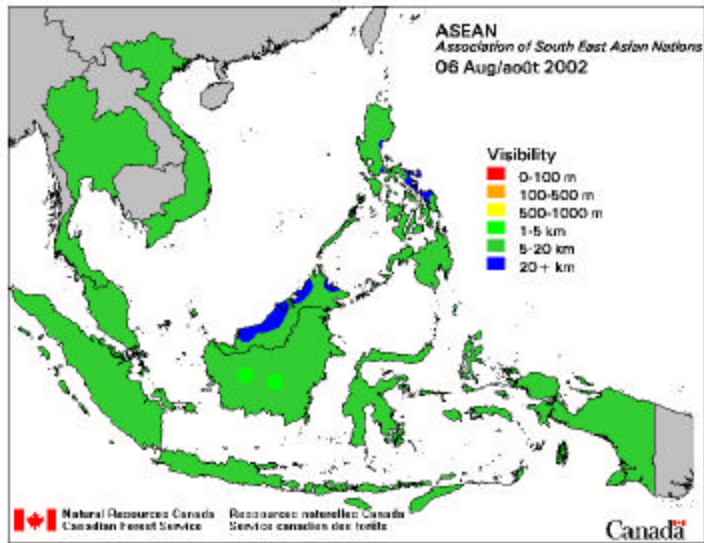


Figure 16 : Visibility Map
Source : <http://www.nofc.forestry.ca/fire/asean/map/>

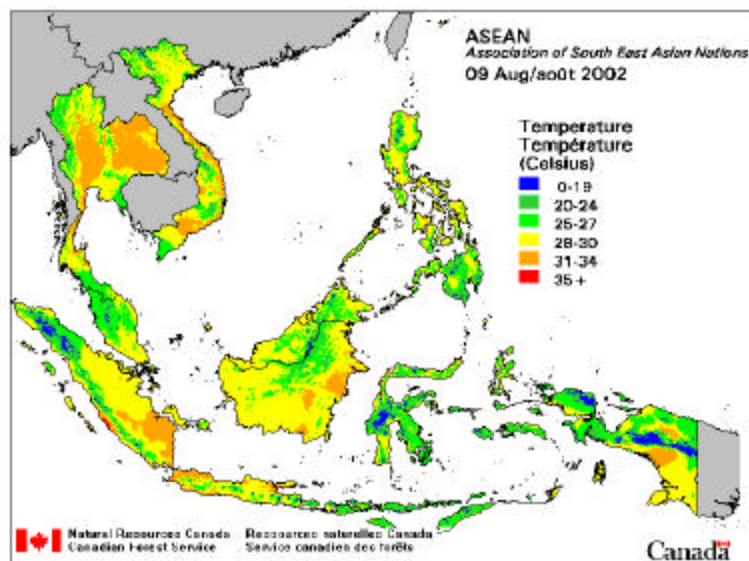
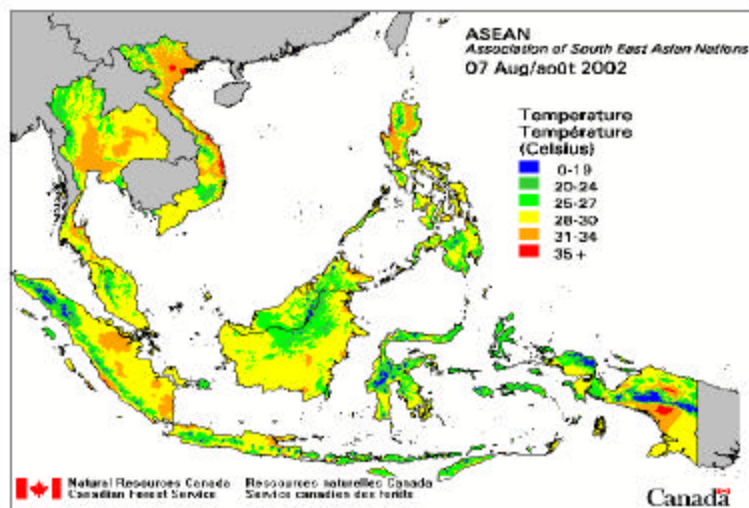
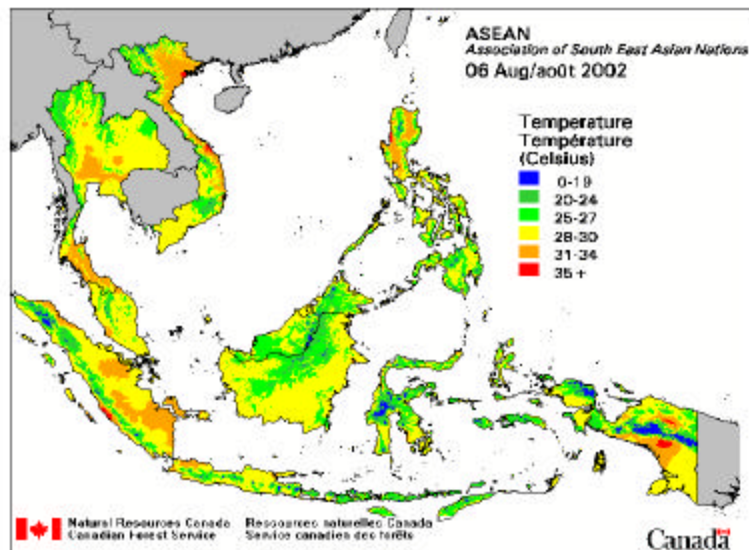


Figure 17 : Temperature Map
 Source : <http://www.nofc.forestry.ca/fire/asean/map/>

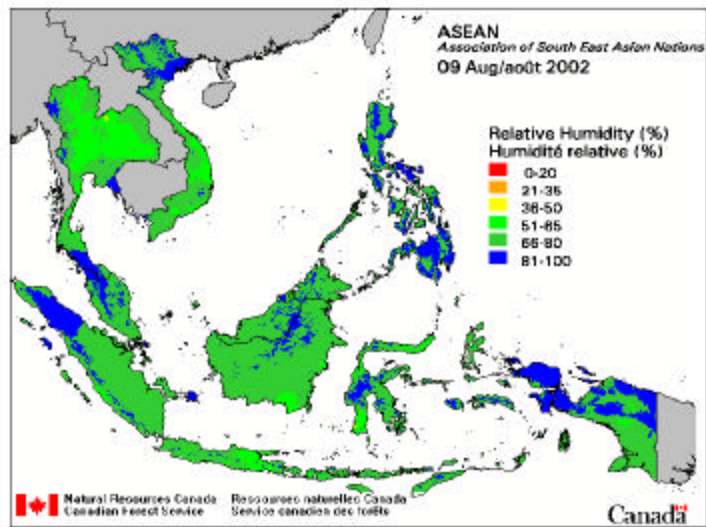
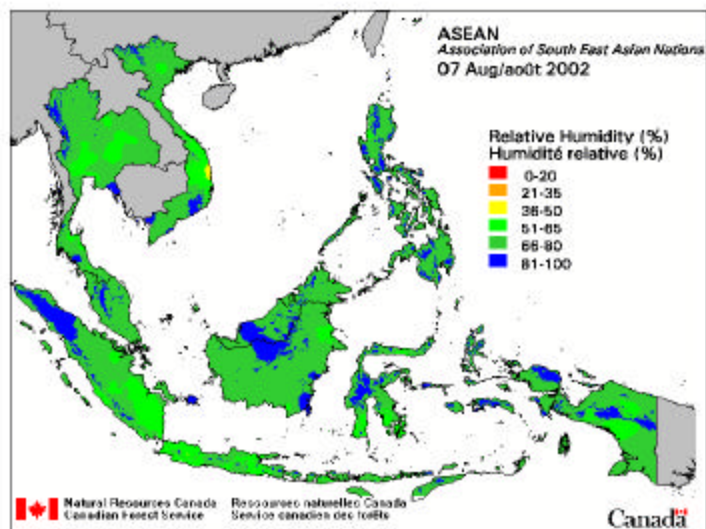
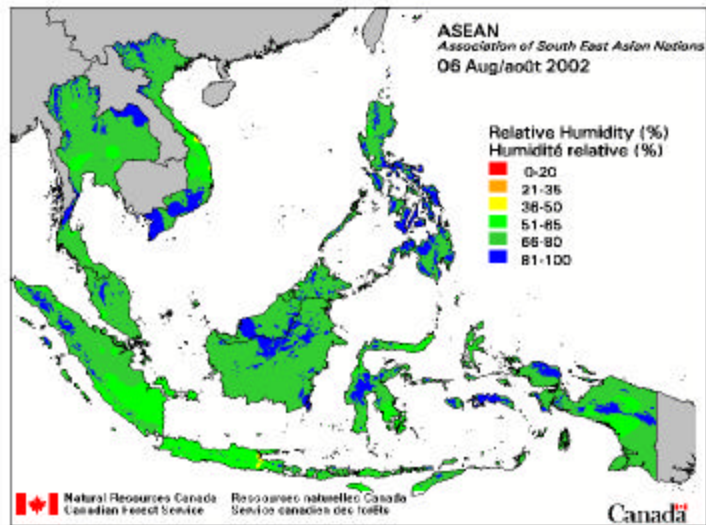


Figure 18 : Relatif Humidity Map
Source : <http://www.nofc.forestry.ca/fire/asean/map/>

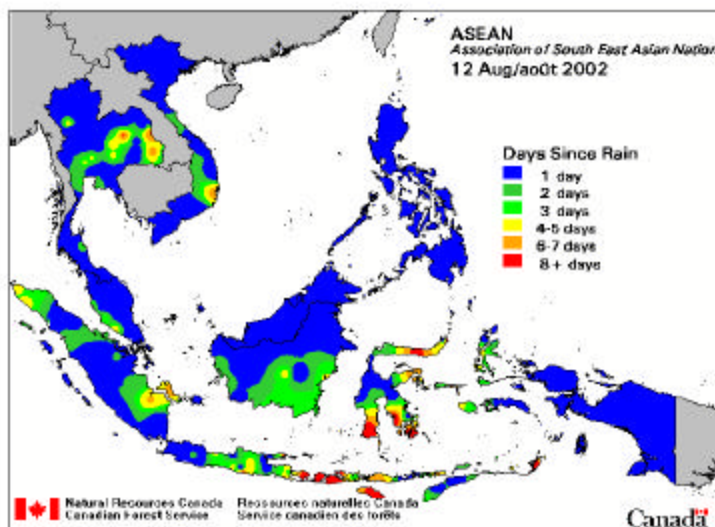
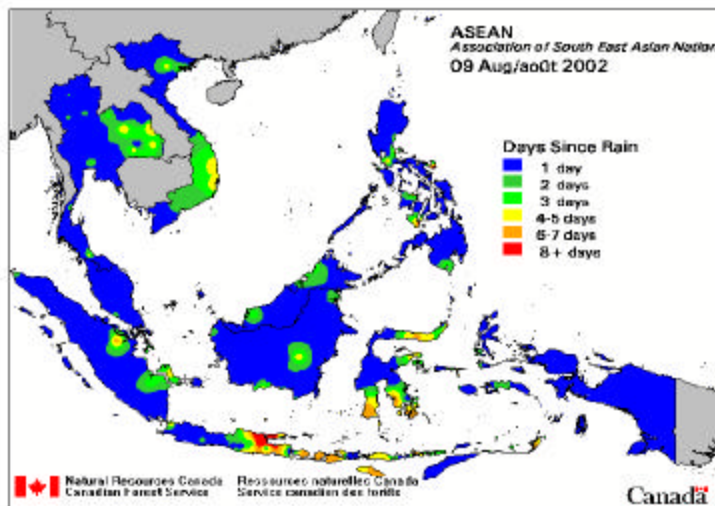
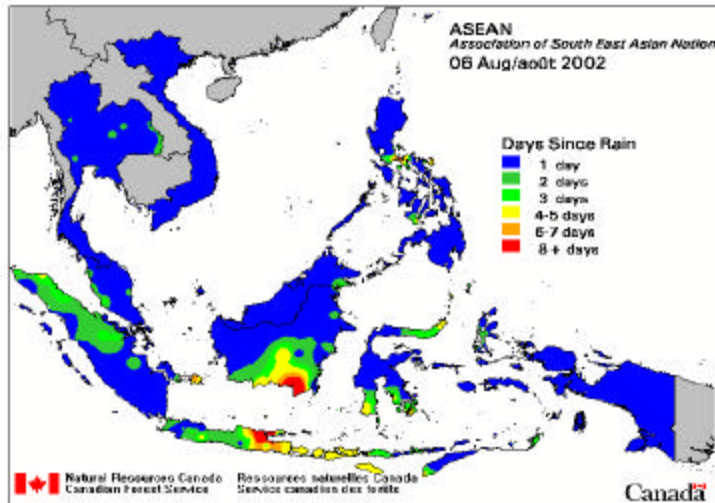


Figure 19 : Days Since Rain Map
 Source : <http://www.nofc.forestry.ca/fire/asean/map/>

<i>Tabel Situs Informasi</i>	
www.gov.sg/metsin	Wind Direction, Smoke/Haze, Hotspot, citra NOAA
www.accuweather.com	Weather Forecast for 5 Days
www.nofc.forestry.ca/fire	Information Map Of Temperature, Relative Humidity, Days Since Rain, Visibility.
www.haze-online.or.id	Informasi artikel tentang kabut asap yang terjadi
www.bmq.cbn.net.id	Meteorology Information, Smoke/Haze
www.pmel.noaa.gov/tao/elnino/	El nino Information
www.elnino.noaa.gov/	El nino Information
www.wmo.ch/	El nino Information

Table 3 : List of Source Information

