

Internal Hotspot Monitoring Weekly Report for 2023

Week 5 – August 2023

28 August – 03 September 2023
Malaysia & Indonesia



Overview



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RSPO Principles & Criteria 2018

Related Criteria

There is **no use of fire for pest control** unless in exceptional circumstances

7.1.3

Criteria 7.1

The unit of certification **does not use open fire for waste disposal.**

7.3.3

Criteria 7.3

The unit of certification **establishes fire prevention and control measures** for the areas directly managed by the unit of certification

7.11.2

Criteria 7.11

RSPO ISH Standard 2019

Related Criteria

Smallholders complete training on best management practices (BMPs) for peat. The group has an **action plan to minimise risk of fire**, to apply BMPs for planting on peat and manage water systems in the certification unit.

4.4 MSA

Criteria 4.4

Smallholders **implement** the group's **action plan based on BMPs**, including **fire** and water management, and monitoring of subsidence rate for existing planting on peat.

4.4 MSA

Criteria 4.4

Fire is not used on the oil palm plot **for preparing land** or for **pest control**, nor open fire for **waste management** on the farm.

4.6 E,
4.6 MSA,
4.6 MSB

Criteria 4.6



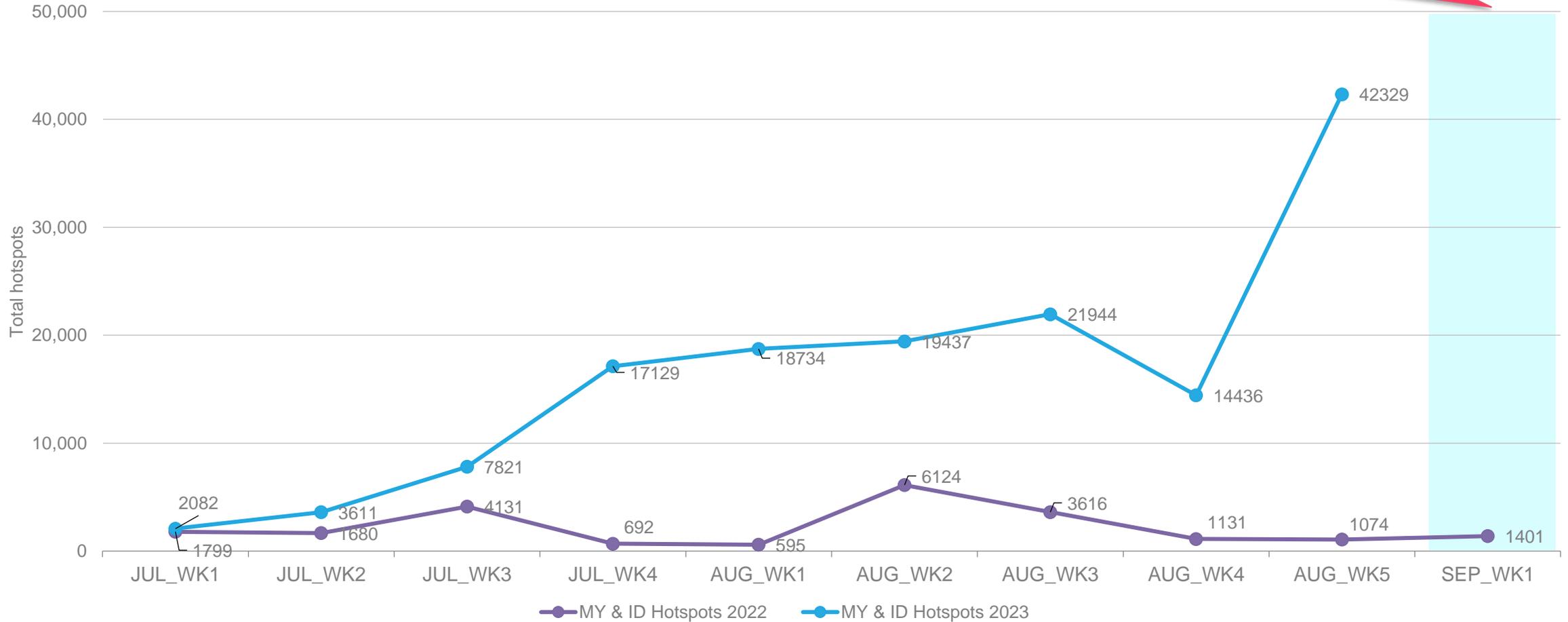
Weekly Analysis

Comparison to 2022 trend
Comparison to previous 10 weeks

Comparison to 2022: All hotspots



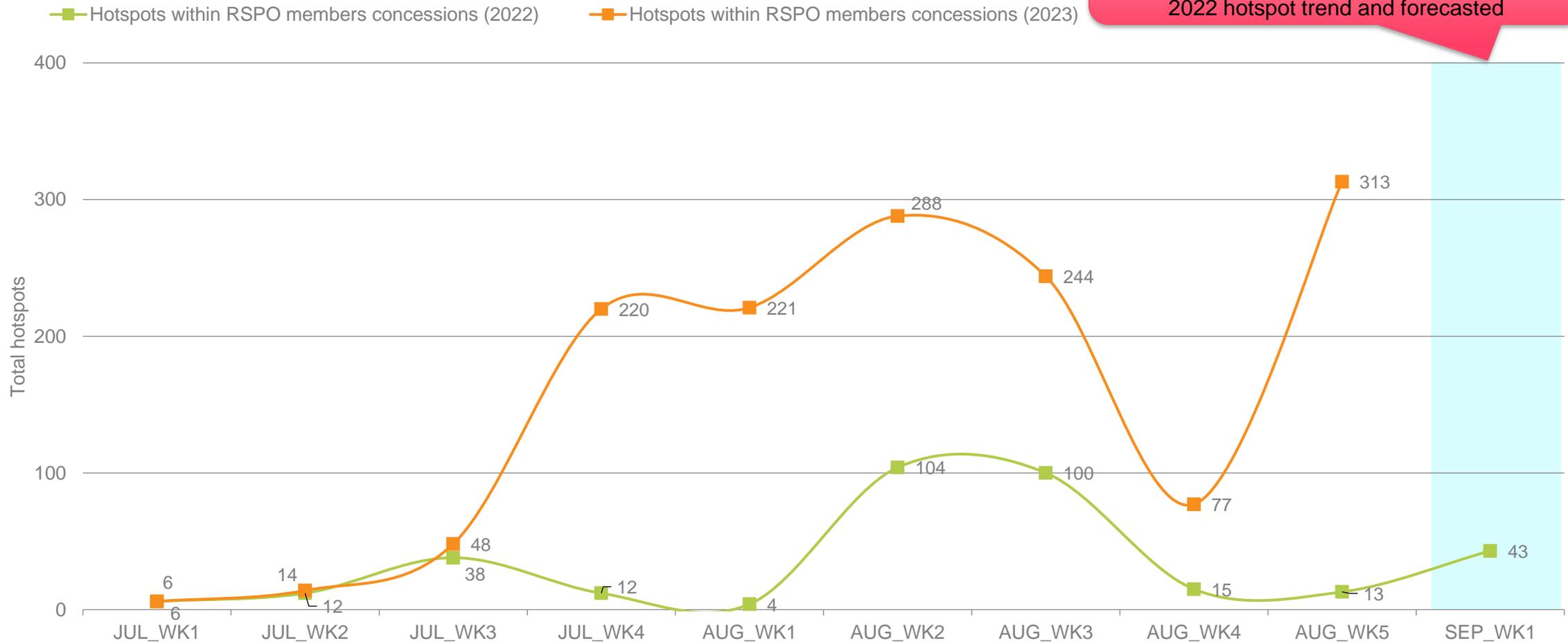
The number of hotspots for next week (September 2023: week 1) is predicted to be **increase** in the region as compared to 2022 hotspot trend and forecasted



Comparison to 2022: Hotspot within RSPO Members Concessions



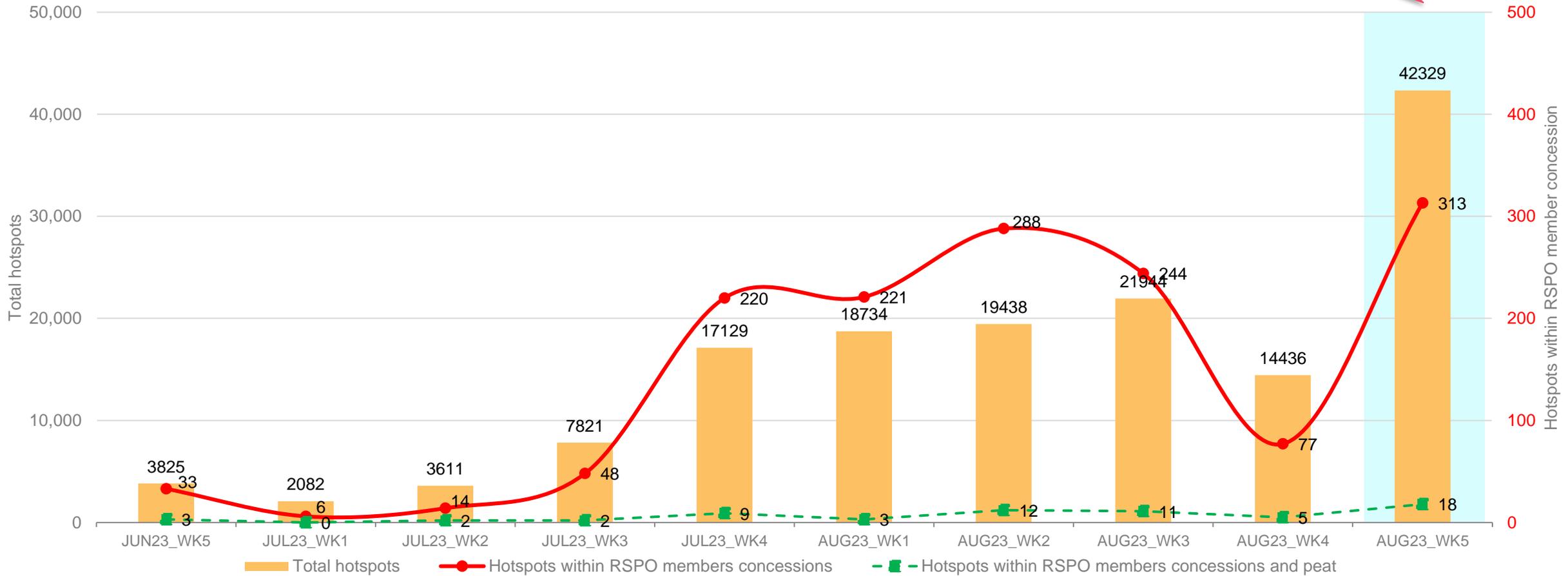
The number of hotspots within RSPO member is expected to be **higher** for next week (September 2023: week 1) as compared to 2022 hotspot trend and forecasted



Weekly trend from last 10 weeks



Higher in hotspot count than previous week



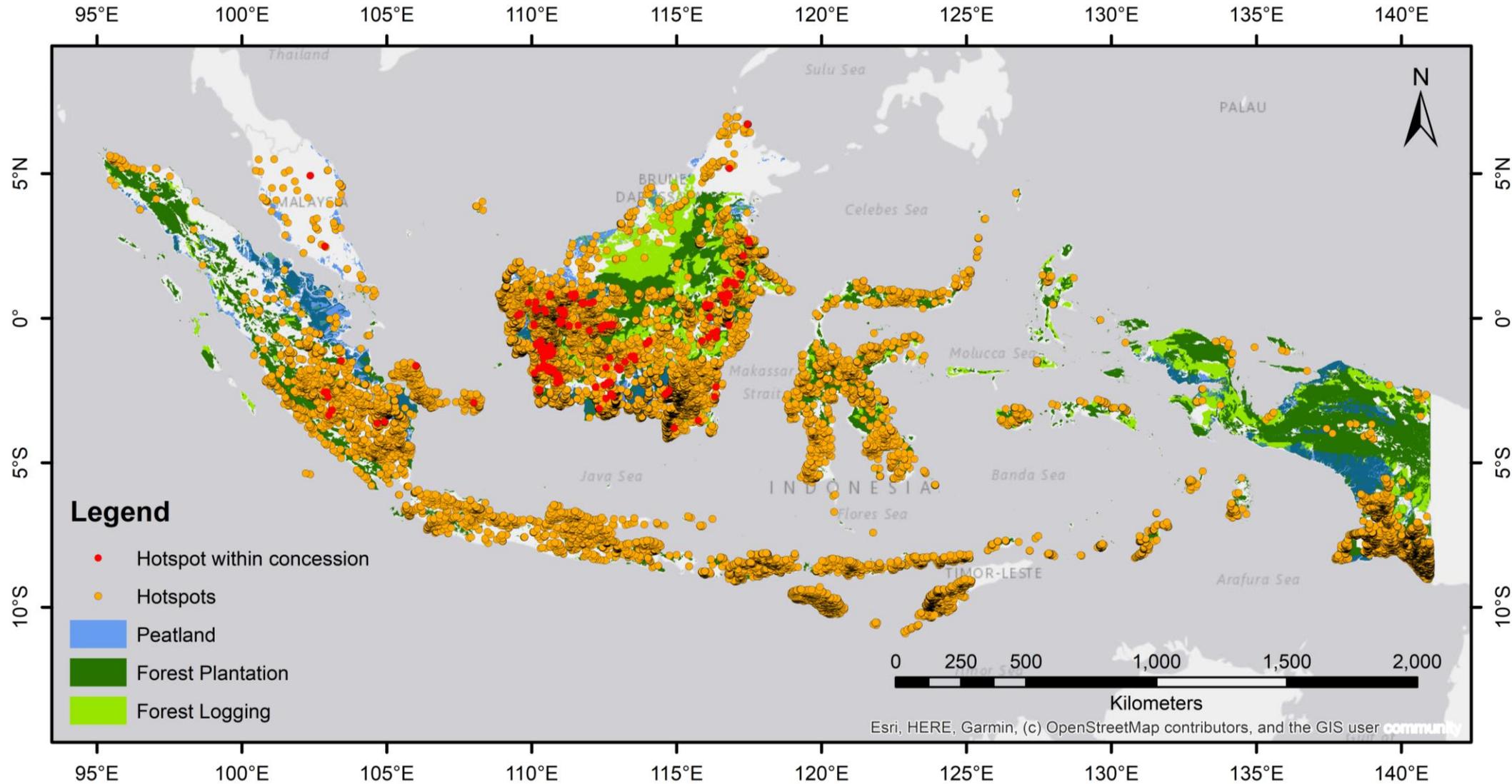


Weekly Hotspot Map

Malaysia & Indonesia



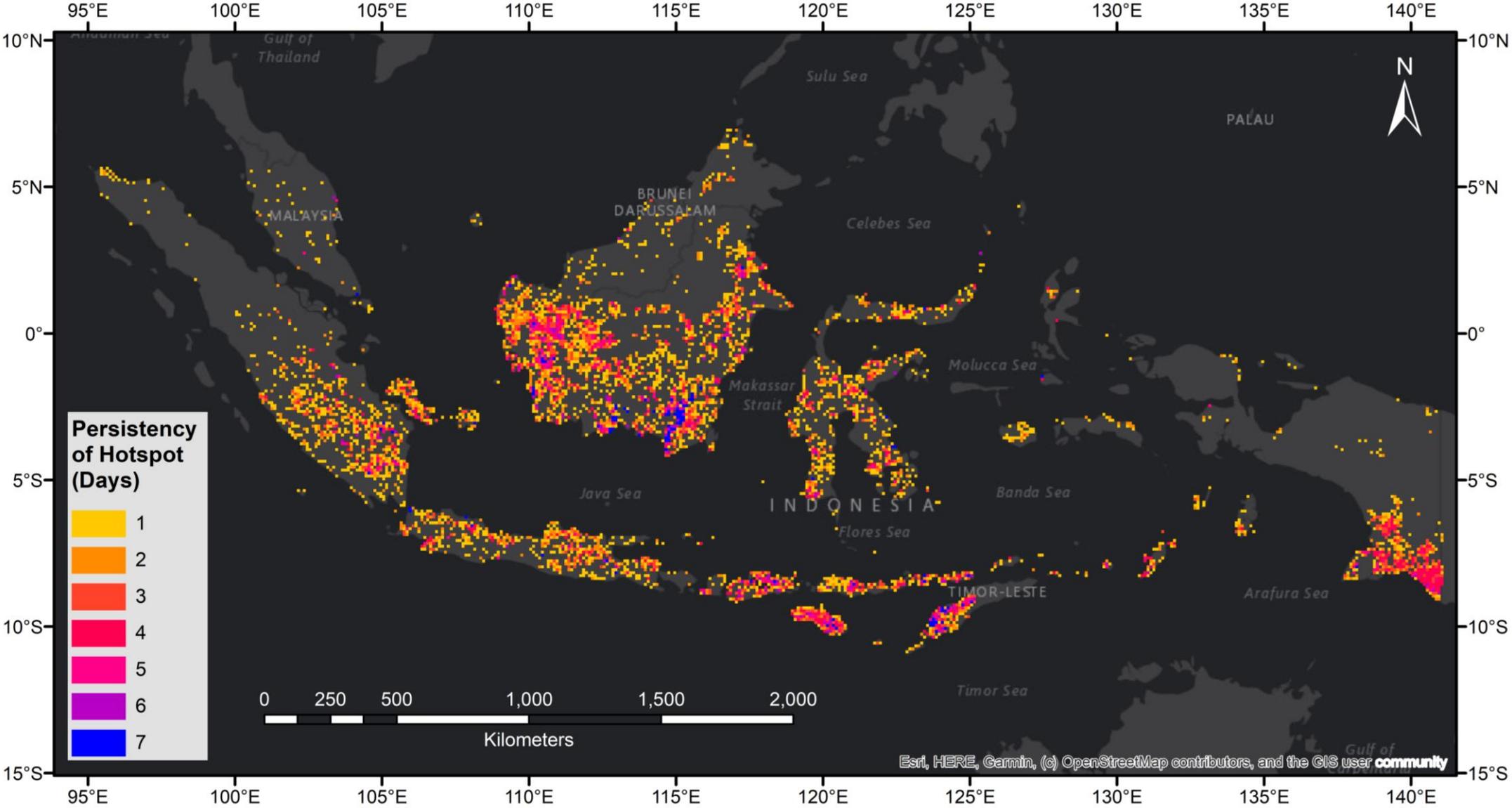
Hotspot Distribution by Peatland & Landuse Map



DATA	SOURCE
Hotspots	NASA FIRMS (https://firms.modaps.eosdis.nasa.gov/active_fire)
Peatland	World Resources Institute. "Peat lands". Accessed through Global Forest Watch on 17/11/2022. www.globalforestwatch.org
Forest Plantation	"Wood fibre concessions." Accessed through Global Forest Watch on 17/11/2022. www.globalforestwatch.org
Forest Logging	"Managed forest concessions." Accessed through Global Forest Watch on 17/11/2022. www.globalforestwatch.org



Hotspot Persistency Map



Each grid represents the number of days hotspots were detected within the 10km X 10km grid between 28 August 2023 – 03 September 2023

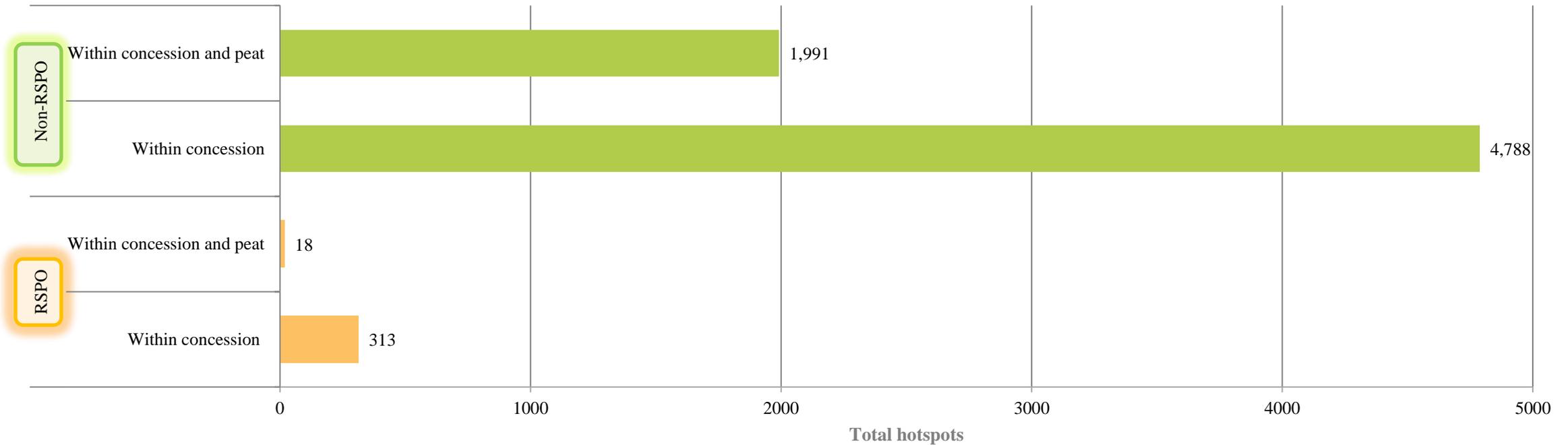
28 August 2023 – 03 September 2023



Week 5 - August 2023 Hotspot

Malaysia & Indonesia

RSPO vs non-RSPO comparison



Non-RSPO oil palm concession location data was derived from oil palm concessions dataset accessed through Global Forest Watch on 17/11/2022. www.globalforestwatch.org. The website states that this layer is a compilation of concession data from various countries and sources. The quality of these data can vary depending on the source. This layer may not include all existing concessions in a country, and the location of certain concessions can be inaccurate.

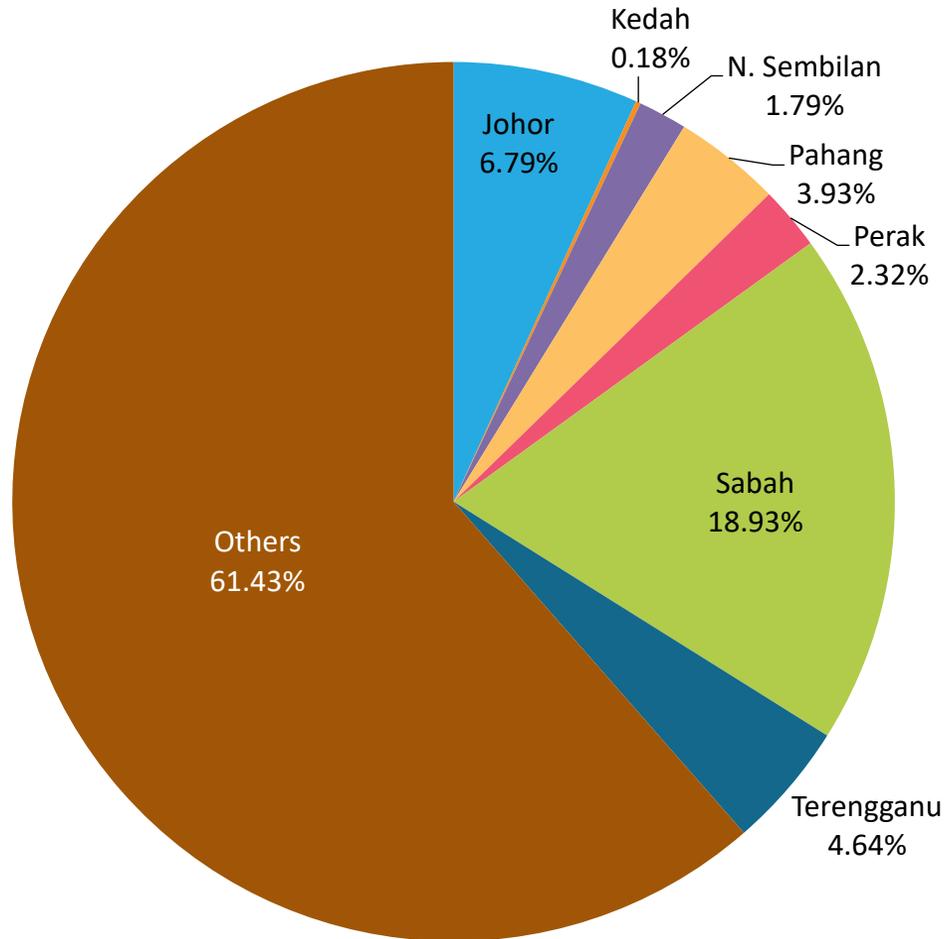
As such the data probably overstates the extent of oil palm plantations in some cases, as there are many licenses granted and the oil palm plantation has not been developed. In other cases, it may understate the extent of plantations as it does not take into account smallholders. Nevertheless, this appears to be the best data available of ALL oil palm in Indonesia.

The RSPO concession boundary data was overlaid with this data in the GIS and RSPO concessions were “clipped” out of this data, leaving only “non-RSPO” concessions.

Non-RSPO*: ~19,000,000 ha

RSPO: ~ 4,800,000 ha

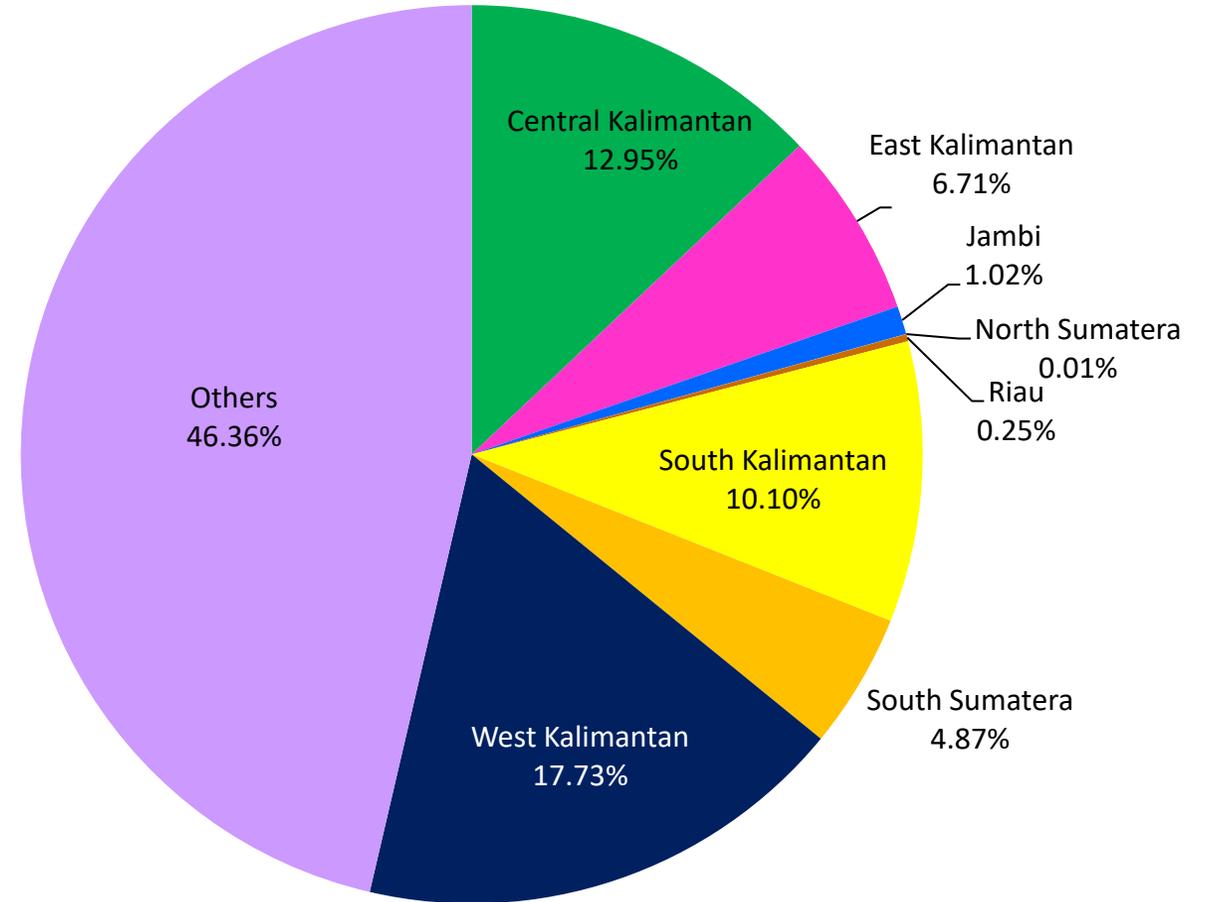
Distribution of Hotspots by State in Malaysia



STATE	TOTAL
Johor	38
Kedah	1
N. Sembilan	10
Pahang	22
Perak	13
Sabah	106
Terengganu	26
Others	344
Total	560

Distribution of Hotspots by Region in Indonesia

REGION	TOTAL
Central Kalimantan	5411
East Kalimantan	2803
Jambi	426
North Sumatera	3
Riau	106
South Kalimantan	4217
South Sumatera	2033
West Kalimantan	7404
Others	19,366
Total	41,769



Hotspots in RSPO members (State/Province)



No. of Member/s	Date of Acquisition	District / Regency	State / Province	Country	No. of Hotspots	Total no. of Hotspots			
1	28-Aug-23	East Kotawaringin	Central Kalimantan	Indonesia	1	25			
	29-Aug-23	Ketapang	West Kalimantan		2				
	30-Aug-23				3				
	31-Aug-23				2				
	1-Sep-23	31-Aug-23	Katingan		Central Kalimantan		1		
		1-Sep-23	Ketapang		West Kalimantan		3		
			Katingan		Central Kalimantan		5		
		2-Sep-23	Katingan		Central Kalimantan		1		
			Ketapang		West Kalimantan		1		
		3-Sep-23	2-Sep-23		East Kotawaringin		Central Kalimantan	1	
3-Sep-23			Ketapang	West Kalimantan	1				
	Katingan		Central Kalimantan	1					
1	30-Aug-23	Landak	West Kalimantan	Indonesia	4	2			
	31-Aug-23				1				
1	28-Aug-23	Ketapang	West Kalimantan	Indonesia	3	23			
		North Kayong			2				
	29-Aug-23	Ketapang			5				
		North Kayong			1				
	30-Aug-23	Ketapang			1				
		31-Aug-23			Ketapang		1		
					North Kayong		1		
	2-Sep-23	Sanggau			1				
		2-Sep-23			Ketapang		1		
					North Kayong		1		
		3-Sep-23			Sanggau		1		
	North Kayong				3				
	Ketapang				1				
1	28-Aug-23	Sanggau	West Kalimantan	Indonesia	1	31			
		Kapuas			Central Kalimantan		2		
	29-Aug-23	Jambongan			Sabah		Malaysia	2	
		Ketapang			West Kalimantan		Indonesia	1	
		Sanggau						2	
	Ketapang	3							
	30-Aug-23	31-Aug-23			Sintang		West Kalimantan	Indonesia	3
									3
	1-Sep-23	2-Sep-23			Kapuas		Central Kalimantan	7	
					Sintang		West Kalimantan	2	
3-Sep-23		Kapuas	Central Kalimantan	2					
		Sanggau	West Kalimantan	3					
		Sintang	West Kalimantan	1					
					2				

Hotspots in RSPO members (State/Province)



No. of Member/s	Date of Acquisition	District / Regency	State / Province	Country	No. of Hotspots	Total no. of Hotspots
1	28-Aug-23	Bangka	Bangka Belitung Islands	Indonesia	1	5
	29-Aug-23				1	
	1-Sep-23	Musi Rawas	South Sumatra		1	
	3-Sep-23	Kutai Kartanegara	East Kalimantan		1	
1	28-Aug-23	Ketapang	West Kalimantan	Indonesia	2	
	29-Aug-23	Seruyan	Central Kalimantan		1	
		East Kotawaringin	Central Kalimantan		1	
		Ketapang	West Kalimantan		2	
	30-Aug-23	Kapuas Hulu	West Kalimantan		1	
		Ketapang	West Kalimantan		2	
	31-Aug-23	East Kutai	East Kalimantan		1	
	1-Sep-23	Kapuas Hulu	West Kalimantan		3	
	2-Sep-23	Gunung MAS	Central Kalimantan		1	
		Ketapang	West Kalimantan		1	
		Gunung MAS	Central Kalimantan		1	
		Seruyan	Central Kalimantan		2	
3-Sep-23		Gunung MAS	Central Kalimantan	1		
1	28-Aug-23	Ketapang	West Kalimantan	Indonesia	1	39
					29-Aug-23	
	30-Aug-23	Ketapang			3	
		Sintang			3	
	31-Aug-23	Ketapang			5	
	1-Sep-23	Sintang			10	
		Ketapang			3	
	2-Sep-23	Ketapang			2	
Sintang		1				
3-Sep-23	Ketapang	1				
1	28-Aug-23	Ketapang	West Kalimantan	Indonesia	4	21
	29-Aug-23				3	
	30-Aug-23				2	
	31-Aug-23	West Kalimantan	1			
	1-Sep-23	East Kotawaringin	Central Kalimantan		2	
		Ketapang	West Kalimantan		1	
	2-Sep-23	Ketapang	West Kalimantan		1	
		East Kotawaringin	Central Kalimantan		2	
3-Sep-23	East Kotawaringin	Central Kalimantan	2			
1	28-Aug-23	Ketapang	West Kalimantan	Indonesia	1	1
		East Belitung	Bangka Belitung Islands		1	

Hotspots in RSPO members (State/Province)



No. of Member/s	Date of Acquisition	District / Regency	State / Province	Country	No. of Hotspots	Total no. of Hotspots	
1	28-Aug-23	Sekadau	West Kalimantan	Indonesia	1	31	
	31-Aug-23				18		
	1-Sep-23				3		
	2-Sep-23				5		
	3-Sep-23				4		
1	28-Aug-23	Ogan Komering Ilir	South Sumatra	Indonesia	1	1	
1	28-Aug-23	Ketapang	West Kalimantan	Indonesia	1	4	
	31-Aug-23				1		
	1-Sep-23				1		
	3-Sep-23				1		
1	29-Aug-23	Kutai Kartanegara	East Kalimantan	Indonesia	2	12	
		West Kutai			1		
	2-Sep-23	Melawi	West Kalimantan		1		
		Ketapang	West Kalimantan		2		
		Katingan	Central Kalimantan		1		
		Kutai Kartanegara	East Kalimantan		1		
		3-Sep-23	Kotabaru		South Kalimantan		1
			Ketapang		West Kalimantan		3
1	29-Aug-23	Tanah Laut	South Kalimantan	Indonesia	1	2	
	31-Aug-23				1		
1	29-Aug-23	Berau	East Kalimantan	Indonesia	1	23	
	30-Aug-23				1		
	31-Aug-23	East Kutai	Central Kalimantan		7		
		Seruyan			Jambi		3
	1-Sep-23	Muaro Jambi	Jambi		1		
		Berau	East Kalimantan		1		
	2-Sep-23	East Kutai	East Kalimantan		6		
1	29-Aug-23	Sekadau	West Kalimantan	Indonesia	2	30	
		East Kutai	East Kalimantan		2		
	30-Aug-23	Sekadau	West Kalimantan		7		
		Sekadau	West Kalimantan		6		
	31-Aug-23	East Kutai	East Kalimantan		1		
		Bulungan	North Kalimantan		2		
	1-Sep-23	Sintang	West Kalimantan		1		
		Sekadau			2		
	2-Sep-23	Sekadau	West Kalimantan		3		
		Sintang	West Kalimantan		1		
	3-Sep-23	Sekadau	West Kalimantan		1		
					2		

Hotspots in RSPO members (State/Province)



No. of Member/s	Date of Acquisition	District / Regency	State / Province	Country	No. of Hotspots	Total no. of Hotspots	
1	29-Aug-23	Sanggau	West Kalimantan	Indonesia	1	4	
	30-Aug-23	Kotabaru	South Kalimantan		1		
	3-Sep-23	Tanah Bumbu			1		
1	29-Aug-23	North Musi Rawas	South Sumatra	Indonesia	1	4	
	3-Sep-23				2		
	3-Sep-23				Musi Rawas		1
1	29-Aug-23	Katingan	Central Kalimantan	Indonesia	1	3	
		West Kutai	East Kalimantan		1		
1	29-Aug-23	Sanggau	West Kalimantan	Indonesia	1	11	
		Landak			2		
	30-Aug-23		2				
	31-Aug-23	East Kotawaringin	Central Kalimantan		2		
	2-Sep-23	Landak	West Kalimantan		1		
		Ogan Komering Ilir	South Sumatra		1		
		Seruyan	Central Kalimantan		1		
East Kotawaringin	1						
1	31-Aug-23	Berau	East Kalimantan	Indonesia	1	4	
		West Kutai			1		
	2-Sep-23		1				
	3-Sep-23	East Kotawaringin	Central Kalimantan		1		
1	31-Aug-23	Kutai Kartanegara	East Kalimantan	Indonesia	3	15	
	1-Sep-23				East Kutai		10
					2-Sep-23		Kutai Kartanegara
1	2-Sep-23	West Kutai	East Kalimantan	Indonesia	1	1	
1	28-Aug-23	Tongod	Sabah	Malaysia	1	1	
24				Total Hotspots		313	

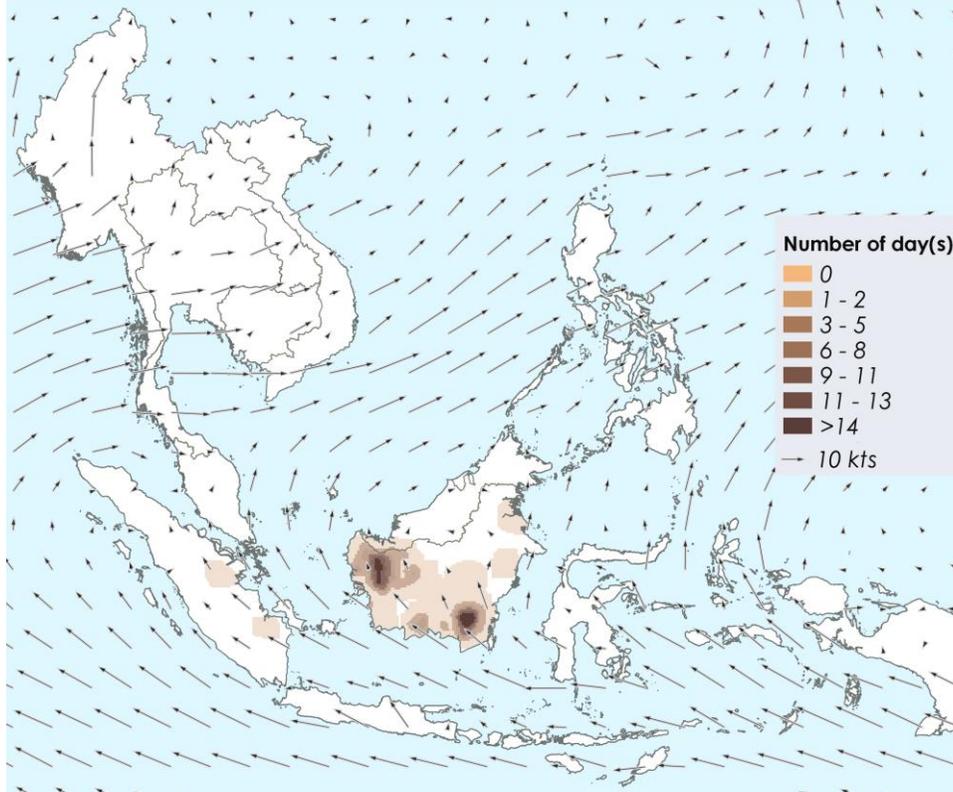


ASEAN Weather Outlook

Source: The ASEAN Specialised Meteorological Centre

Regional Weather & Haze Outlook

Haze Persistency (Aug 2023)



Number of days with moderate to dense haze observed in August 2023 based on NOAA-20 satellite surveillance.

Alert Level

- LEVEL 0** Stay vigilant.
- LEVEL 1** Dry season for the Southern ASEAN region.
- LEVEL 2** Increasing risk of transboundary haze in Kalimantan. Escalating hotspot activities with moderate to dense smoke haze observed over 2 or more consecutive days; dry weather persisting; and prevailing winds blowing smoke haze from the hotspots towards neighbouring ASEAN countries.
- LEVEL 3** High risk of severe transboundary haze in the region. Significant and persistent hotspot activities with widespread moderate to dense smoke haze observed over 2 or more consecutive days; dry weather persisting; and prevailing winds blowing towards ASEAN countries.

In recent days, prevailing dry weather conditions over the southern ASEAN region have resulted in an escalation in hotspot and smoke haze activities. Based on satellite surveillance, moderate smoke haze was observed to emanate from clusters of hotspots detected in the western and southern parts of Kalimantan. Transboundary haze was observed to drift northwards from the hotspot clusters in West Kalimantan into western Sarawak in East Malaysia.

The prevailing dry weather conditions are forecast to continue over Kalimantan in the coming days, with the prevailing winds likely to blow from the southeast or southwest. Under these conditions, the hotspot and smoke haze situation could worsen with an increased risk of transboundary smoke haze occurrence.

Over the southern ASEAN region, dry weather prevailed over Kalimantan, southern Sumatra, Java, and the Lesser Sunda Islands. Under the prolonged dry conditions, moderate to dense smoke haze was observed to emanate from widespread hotspots detected in many parts of Kalimantan. The smoke haze was blown by the prevailing winds northwards, and some of the smoke haze from West Kalimantan had been drifted into western Sarawak, where Unhealthy air quality was reported.

Dry weather is forecast to continue for many parts of the southern ASEAN region **south of the Equator**. Under the prevailing dry conditions, hotspot and haze situation can be expected to gradually escalate over the fire-prone areas in the region, particularly over Kalimantan and southern Sumatra.

Alert by RSPO: Transboundary Haze (Level 2)

For the following week, RSPO Secretariat would like to recommend the following measures to Members:



Dry Season Area

(Many parts of Southern ASEAN Region; especially at some parts of Borneo, Kalimantan & Sumatra)

- Please alert to the Fire Danger Rating System (FDRS) indicator board especially in the fire prone area
- Supply appropriate well-maintained fire mitigation tools (fire extinguisher, fire truck)
- Establish of fire break (wide road, vacant land) within the planted area
- Inform workers and communities about the fire drill procedure
- Minimize outdoor activities and stay hydrated if the haze season occurred
- If haze occurred, wear respirator mask if outdoor activities is necessary.



Integrated Fire Management Training conducted by PT Austindo PT Austindo Nusantara Jaya Agri

Wet Weather Area

(as forecast for over Northern ASEAN region)

- High risk of surface runoff in the estate area which may result in erosion and landslide
- Stay vigilant of water level and keep informed on local news of the flood in high-risk area
- Tendency for the formation of road potholes, which may necessitate additional maintenance and repair costs.
- Stay inside during thunderstorms and blizzards. Stay off the landline phone and computer during a storm.
- Wear appropriate rain gear for employees working in the rain

Background image: Fire fighting in action conducted by Daabon Group



Find out more at
www.rspo.org