Internal Hotspot Monitoring

Weekly Report for 2023

Week 3 - March 2023

13 March – 19 March 2023
Malaysia & Indonesia

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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

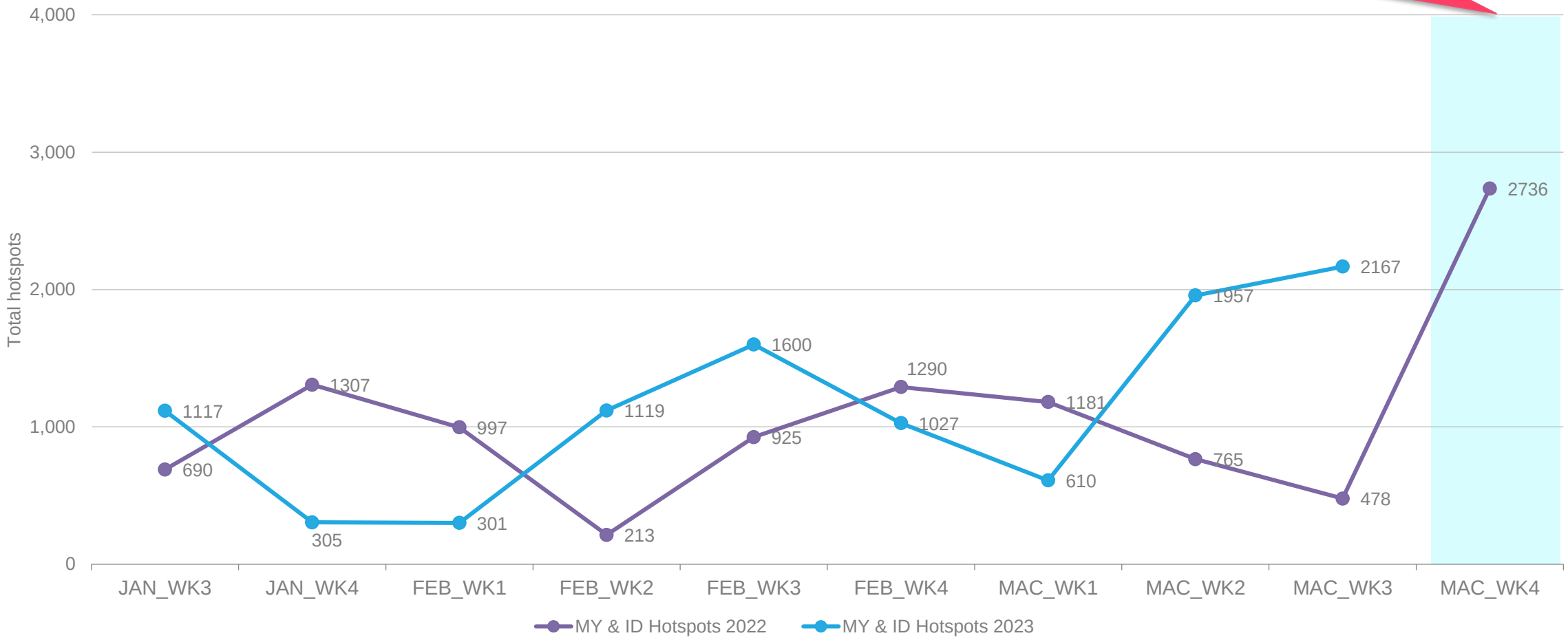
Criteria 4.6

Weekly Analysis

Comparison to 2022 trend
Comparison to previous 10 weeks

Comparison to 2022: All hotspots

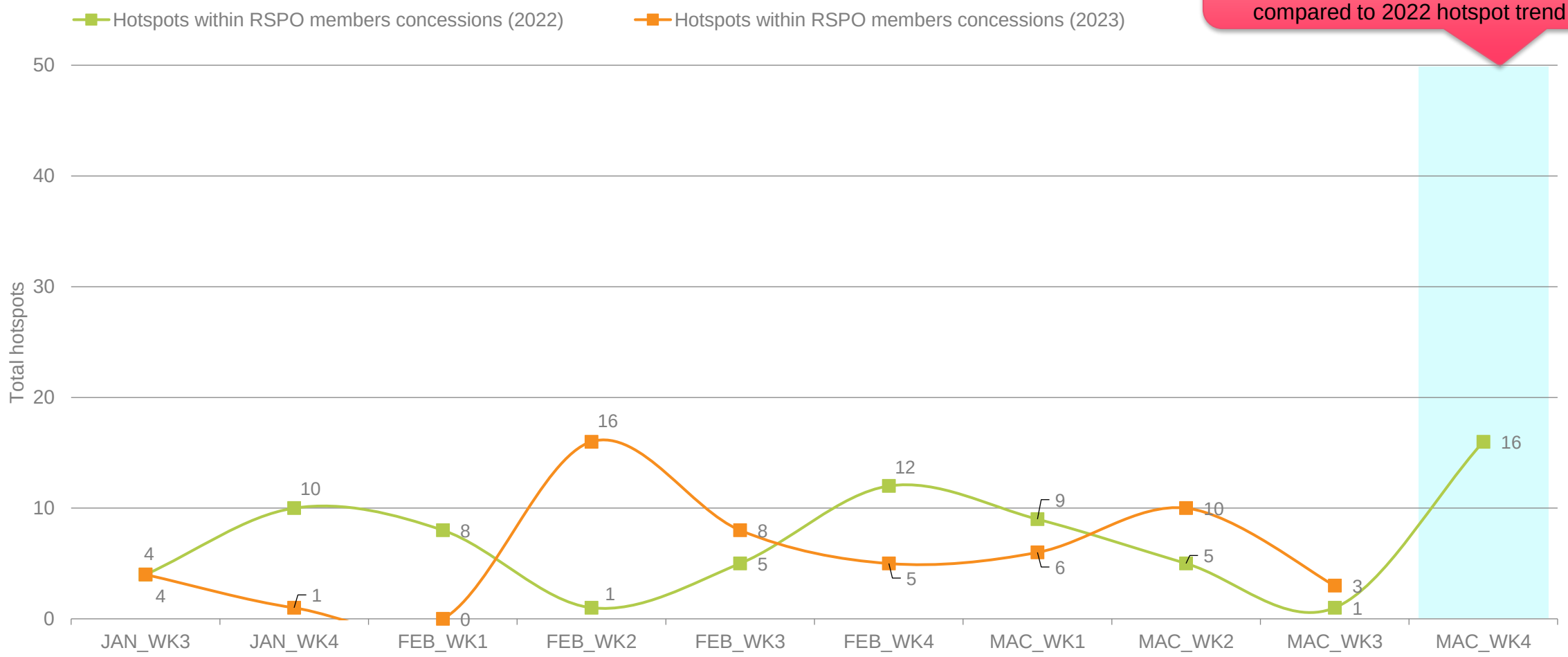
The number of hotspots for next week (March 2023: week 4) is predicted to be **increase** in the region as compared to 2022 hotspot trend



13 March 2023 – 19 March 2023

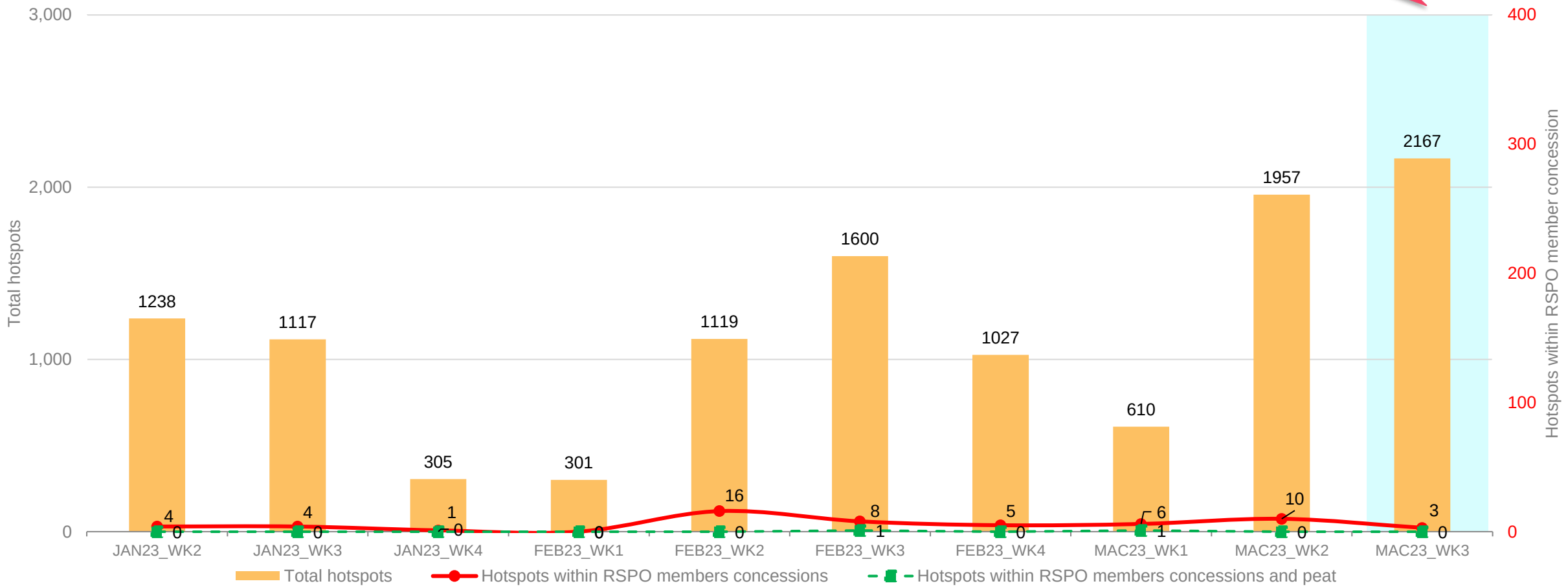
Comparison to 2022: Hotspot within RSPO Members Concessions

The number of hotspots within RSPO member is expected to be **higher** for next week (March 2023: week 4) as compared to 2022 hotspot trend



Weekly trend from last 10 weeks

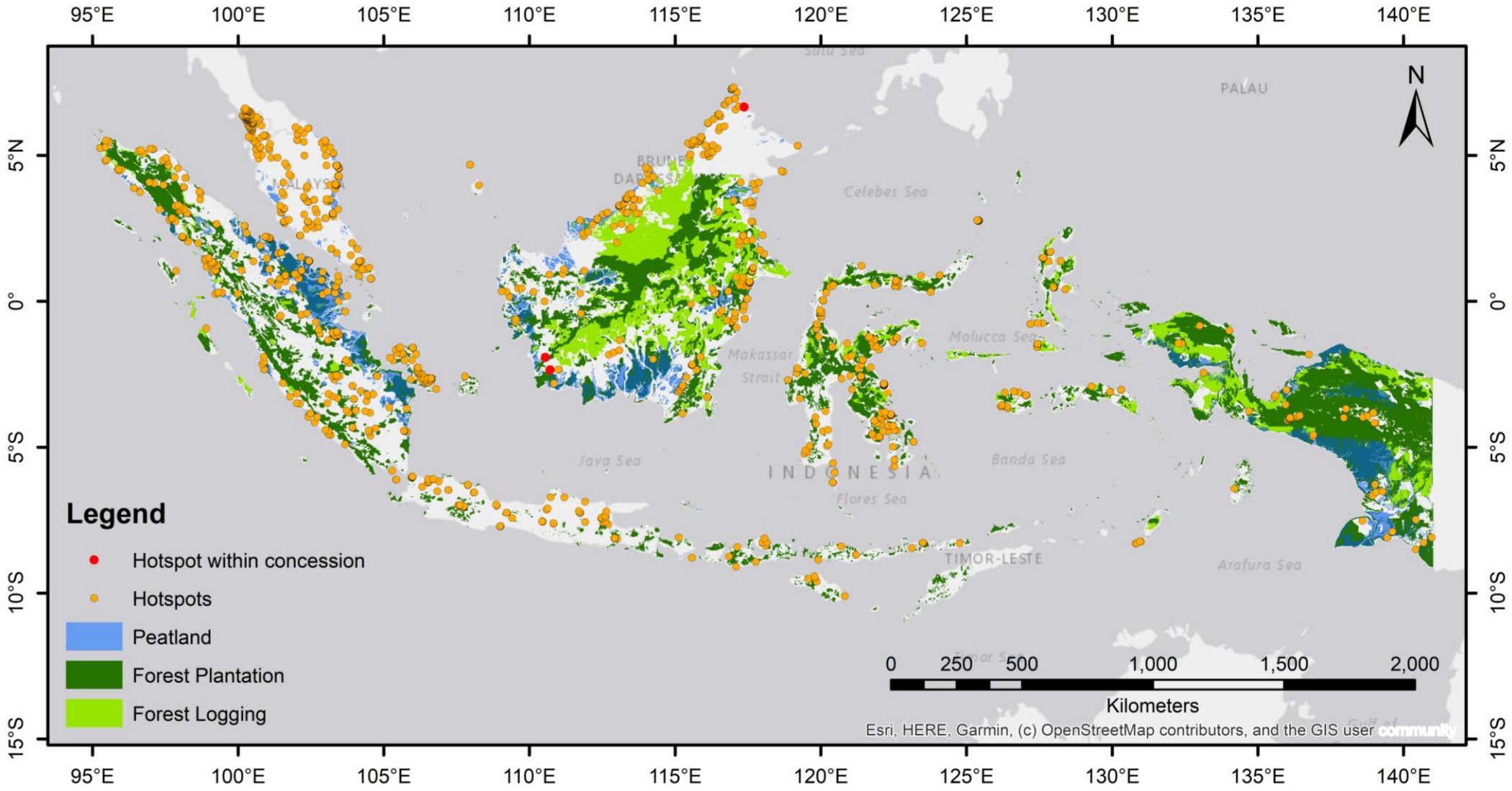
Higher in hotspot count than previous week



Weekly Hotspot Map

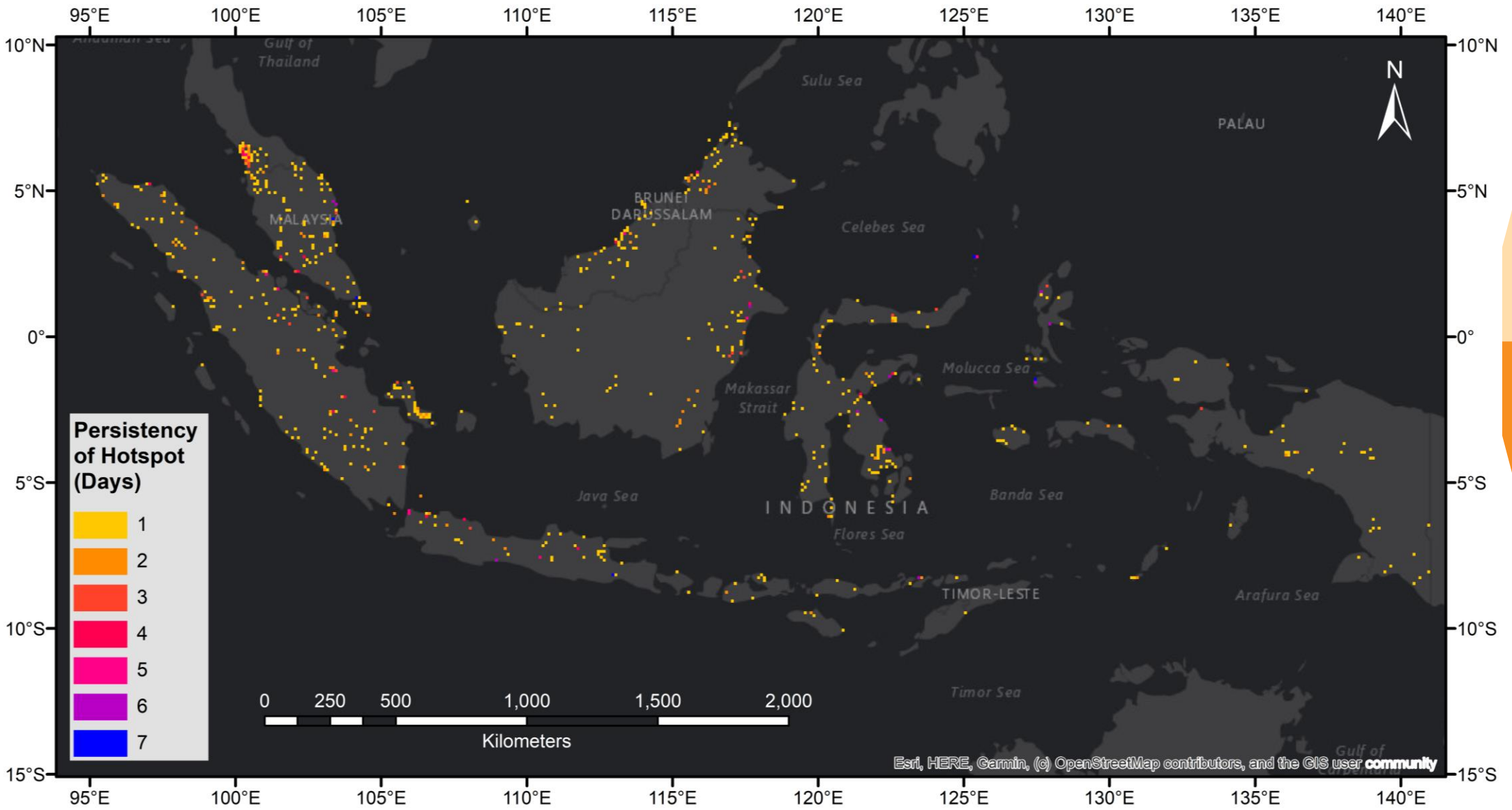
Malaysia & Indonesia

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



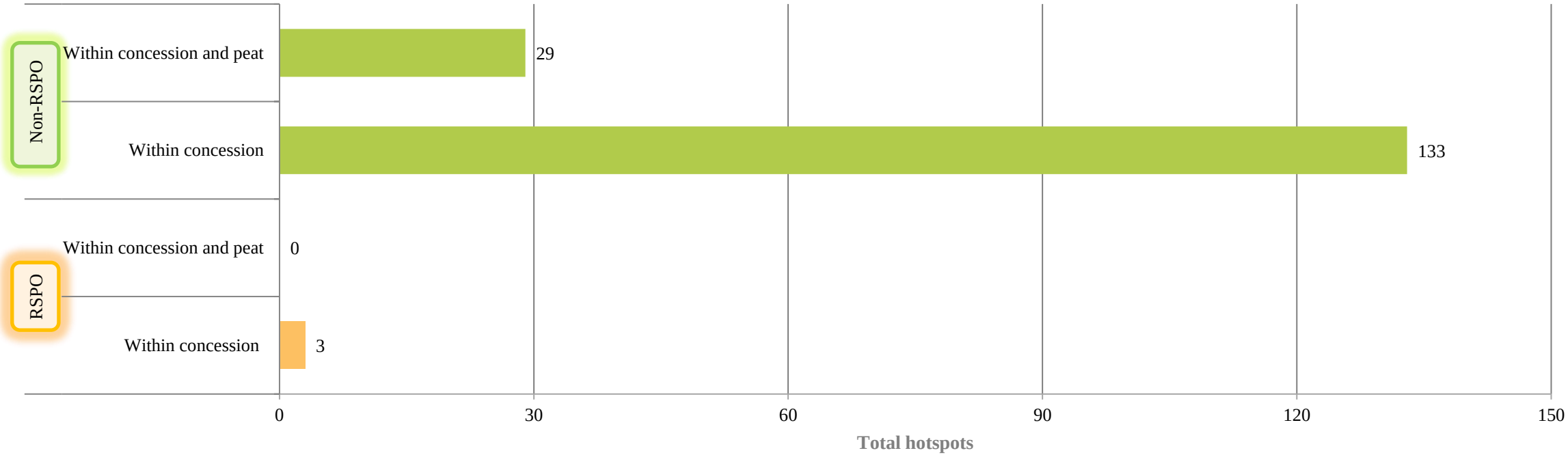
Each grid represents the number of days hotspots were detected within the 10km X 10km grid between 13 March 2023 – 19 March 2023

13 March 2023 – 19 March 2023

Week 3 - March 2023 Hotspot

Malaysia & Indonesia

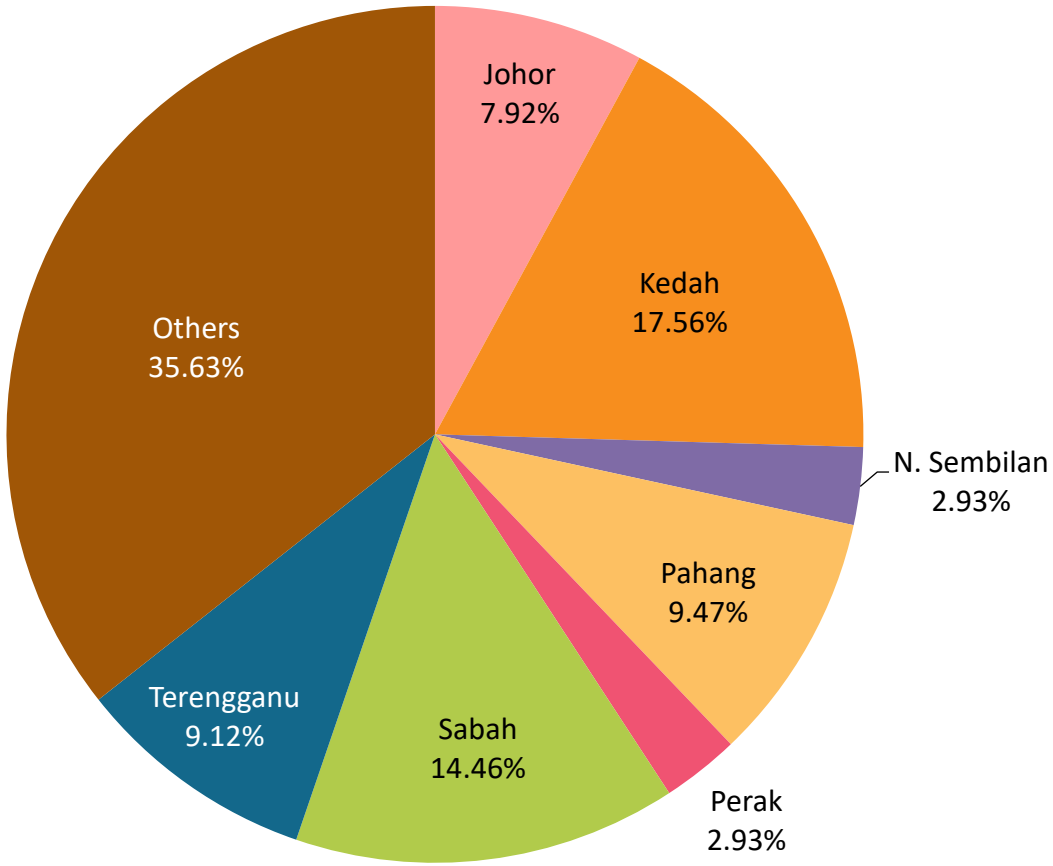
RSPO vs non-RSPO comparison



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

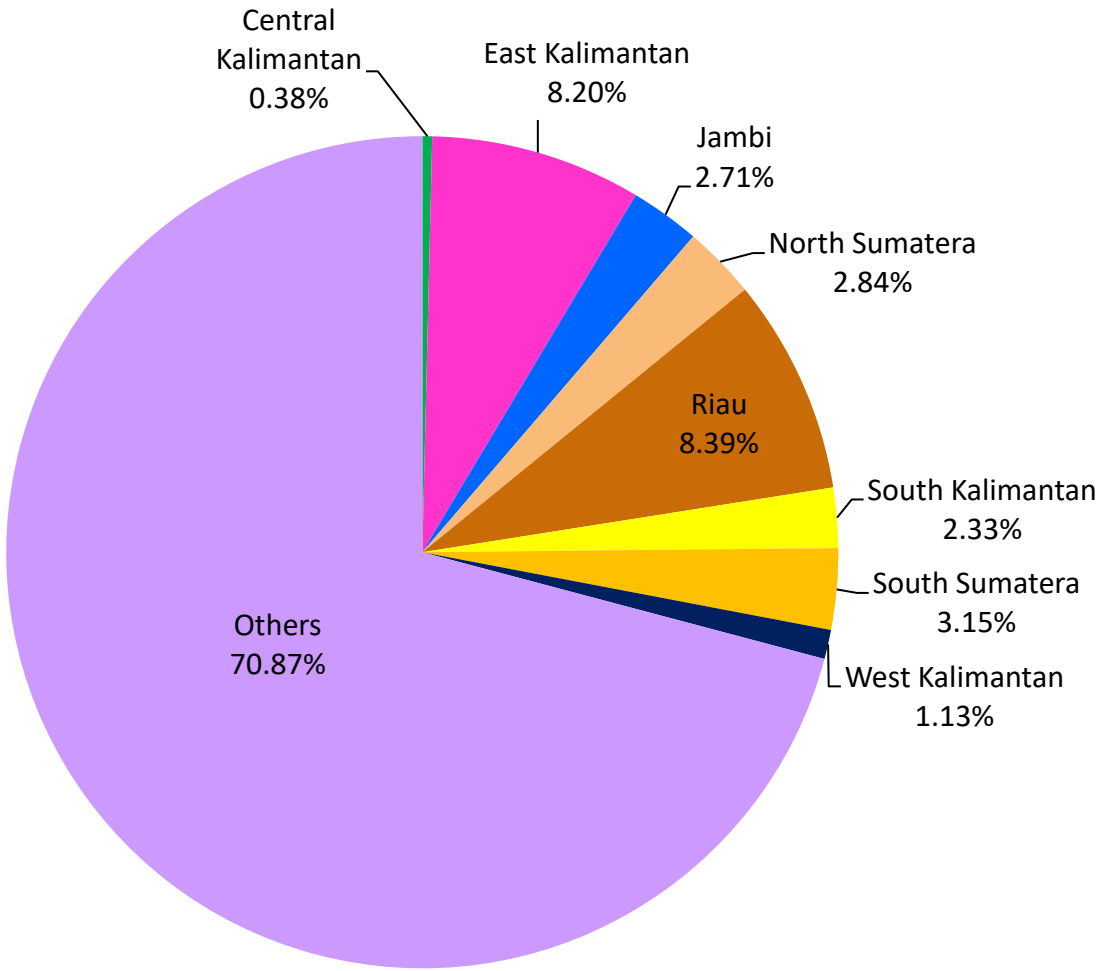
Distribution of Hotspots by State in **Malaysia**



STATE	TOTAL
Johor	46
Kedah	102
N. Sembilan	17
Pahang	55
Perak	17
Sabah	84
Terengganu	53
Others	207
Total	**581**

Distribution of Hotspots by Region in **Indonesia**

REGION	TOTAL
Central Kalimantan	6
East Kalimantan	130
Jambi	43
North Sumatera	45
Riau	133
South Kalimantan	37
South Sumatera	50
West Kalimantan	18
Others	1,124
Total	**1,586**



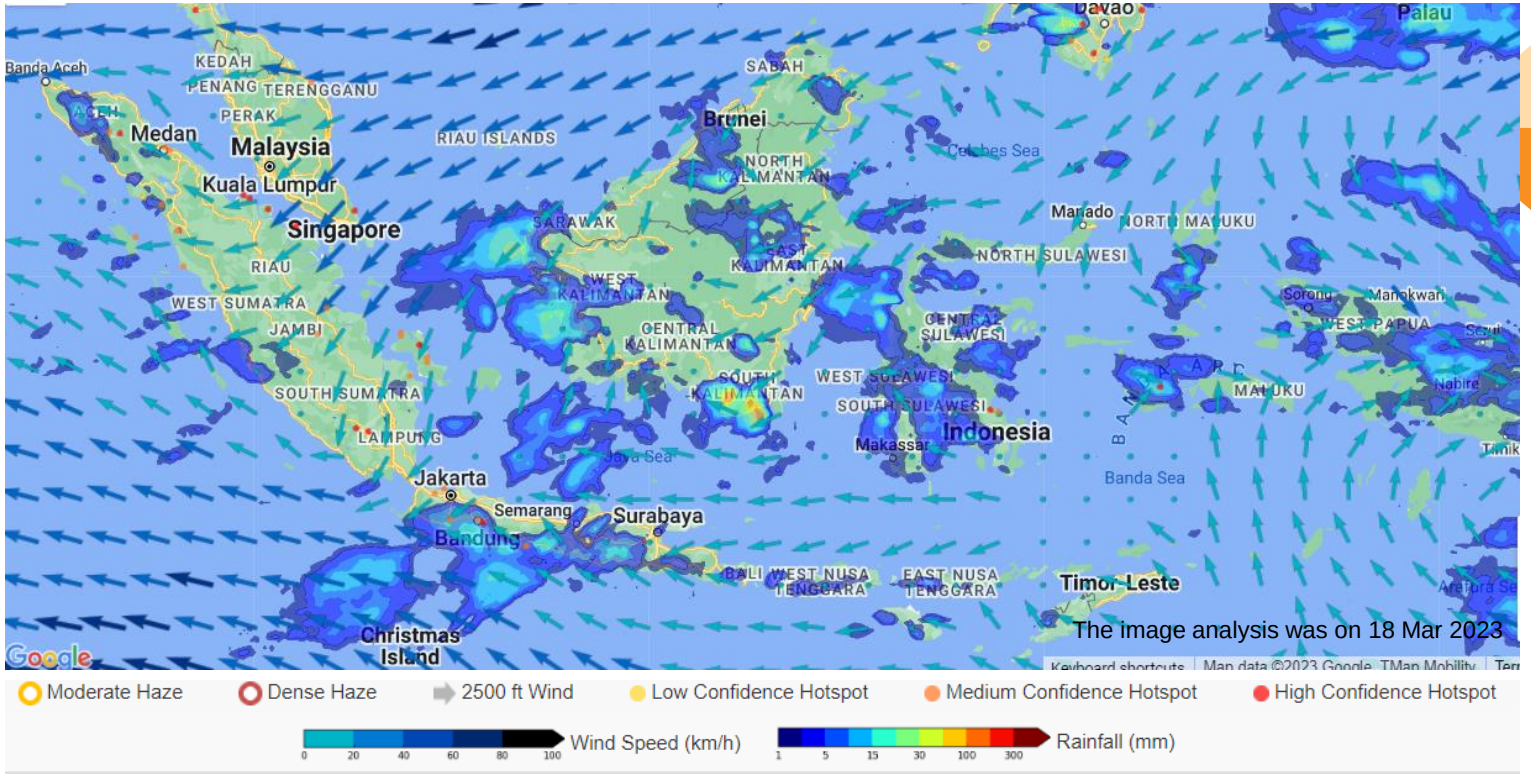
Hotspots in RSPO members (State/Province)

No. of Member/s	Date of Acquisition	District / Regency	Province / State	Country	No. of Hotspots	Total no. of Hotspots
1	15-Mar-23	Jambongan	Sabah	Malaysia	1	1
1	17-Mar-23	Ketapang	West Kalimantan	Indonesia	1	2
	18-Mar-23				1	
2				**Total Hotspots**		**3**

ASEAN Weather Outlook

Source: The ASEAN Specialised Meteorological Centre

Regional Weather & Haze Outlook



Isolated showers over some parts of the western, central, and northern Mekong sub-region brought a brief respite to the overall hotspot activity and haze situation there, where many stations also reported improved air quality. For other parts of the ASEAN region, showers fell over many areas except Peninsular Malaysia and Sumatra where the weather was relatively drier.

Dry weather is forecast to persist over the Mekong sub-region in the coming days. Rainy weather is forecast for the southern ASEAN region over the next few days, with the prevailing winds expected to be light and variable in direction.

Source: The ASEAN Specialised Meteorological Centre

Alert Level

LEVEL 0	Stay vigilant.
LEVEL 1	Dry season for the Northern ASEAN region.
LEVEL 2	Exceeding 150 hotspots in 2 consecutive days in Northern ASEAN with dense smoke plumes; dry weather persisting; and prevailing winds blowing from the Mekong sub-region. Increasing risk of transboundary haze in the region.
LEVEL 3	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 the past few days, persistent dry weather over the Mekong sub-region has led to an escalation in the hotspot and haze situation there.

The current dry conditions are expected to persist in the coming days, with the prevailing winds forecast to blow from the northeast. Under these conditions, the elevated hotspot activity and widespread hazy conditions in the Mekong sub-region are likely to continue, with a high risk of transboundary haze occurrence in the sub-region.

Alert by RSPO:

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

Dry Season Area

(Northern ASEAN region; especially at Mekong sub-region)

- 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 Southern 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