Internal Hotspot Monitoring

Weekly Report for 2022

NOV2022_WK04

21 November 2022 – 27 November 2022
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

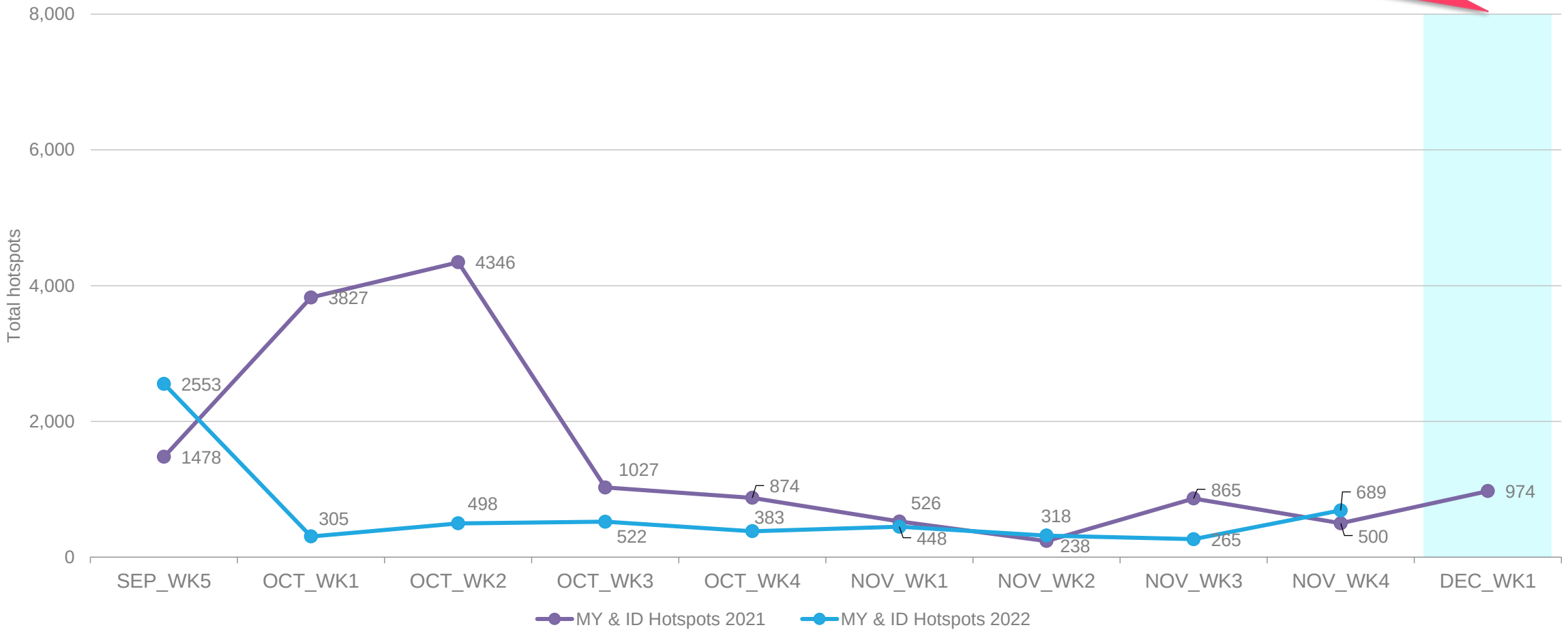
Criteria 4.6

Weekly Analysis

Comparison to 2021 trend
Comparison to previous 10 weeks

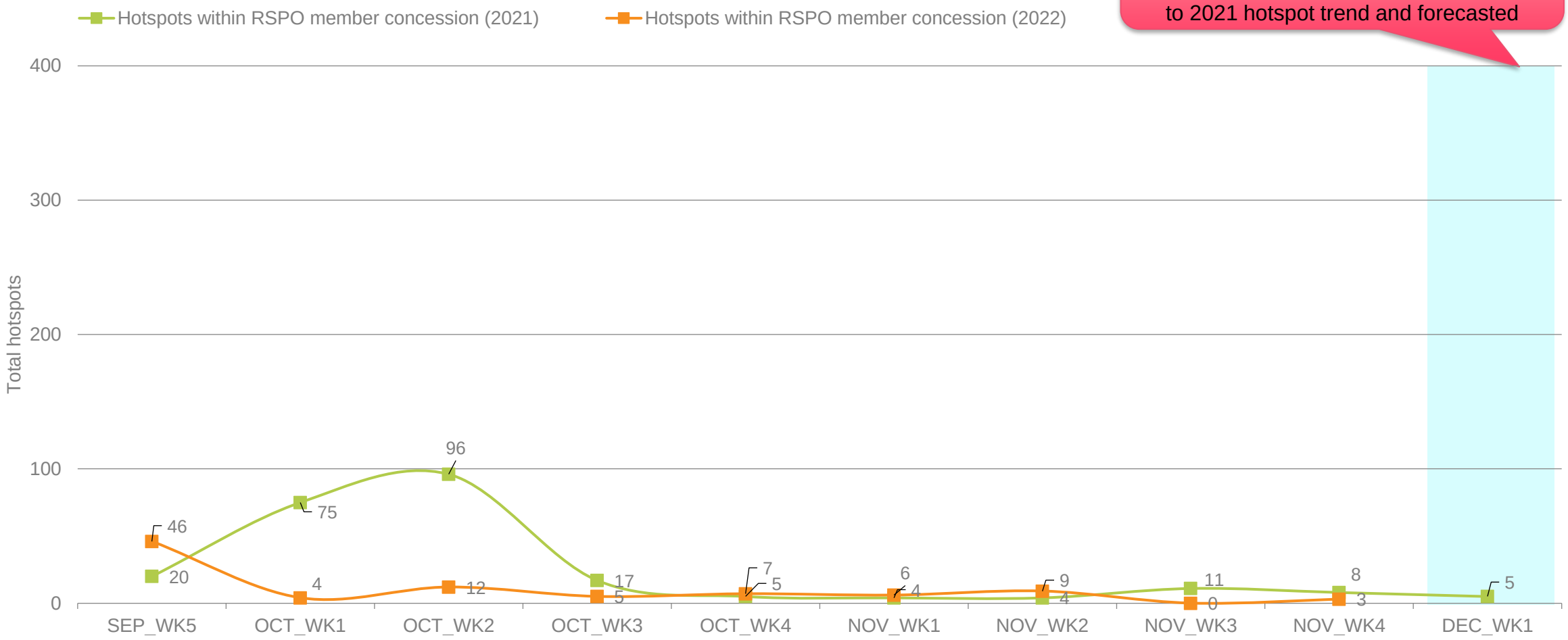
Comparison to 2021: All hotspots

The number of hotspots for next week (Dec 2022: 1st week) is predicted to be **increase** in the region as compared to 2021 hotspot trend



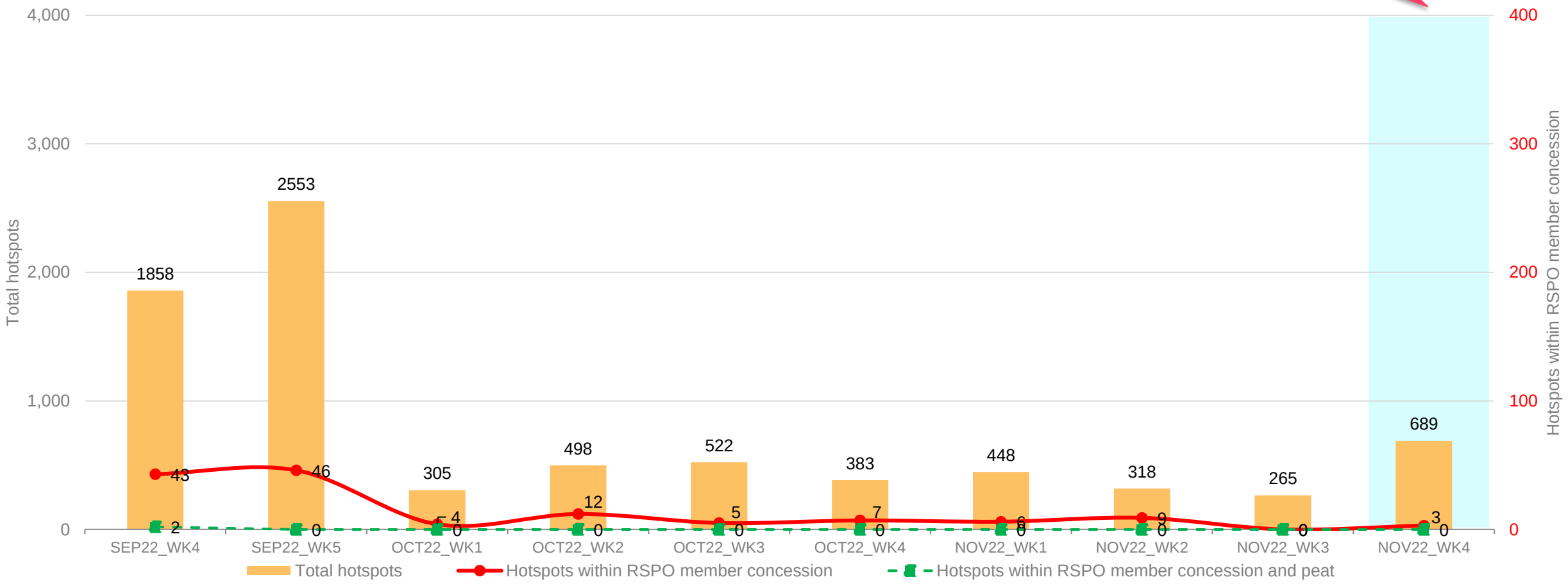
Comparison to 2021: Hotspot within RSPO Member Concession

The number of hotspots within RSPO member is expected to be **lower** for next week (Dec 2022: 1st week) as compared to 2021 hotspot trend and forecasted



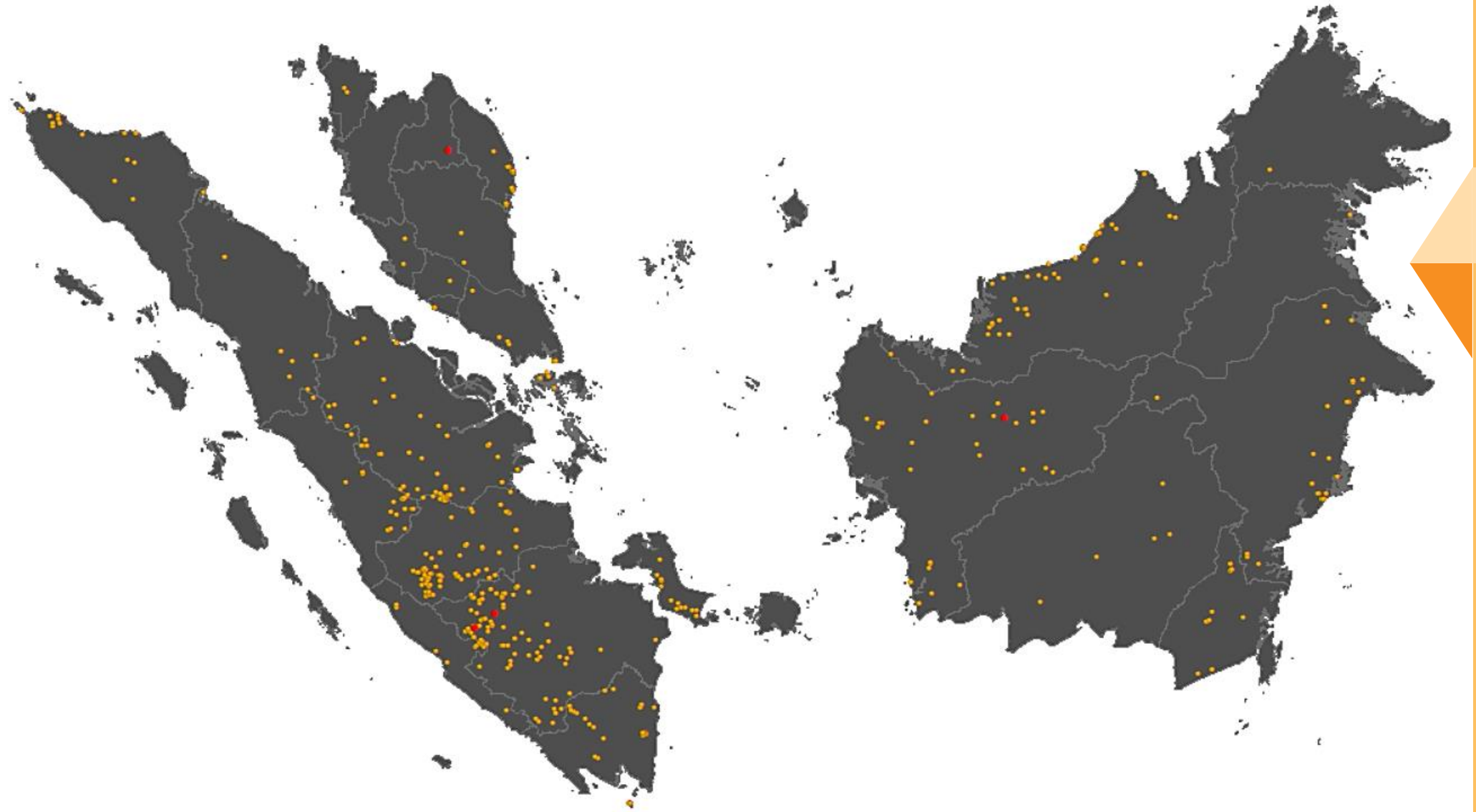
Weekly trend from last 10 weeks

Higher in hotspot count than previous week



Weekly Hotspot Map

Malaysia & Indonesia
(Sumatera & Kalimantan) Region



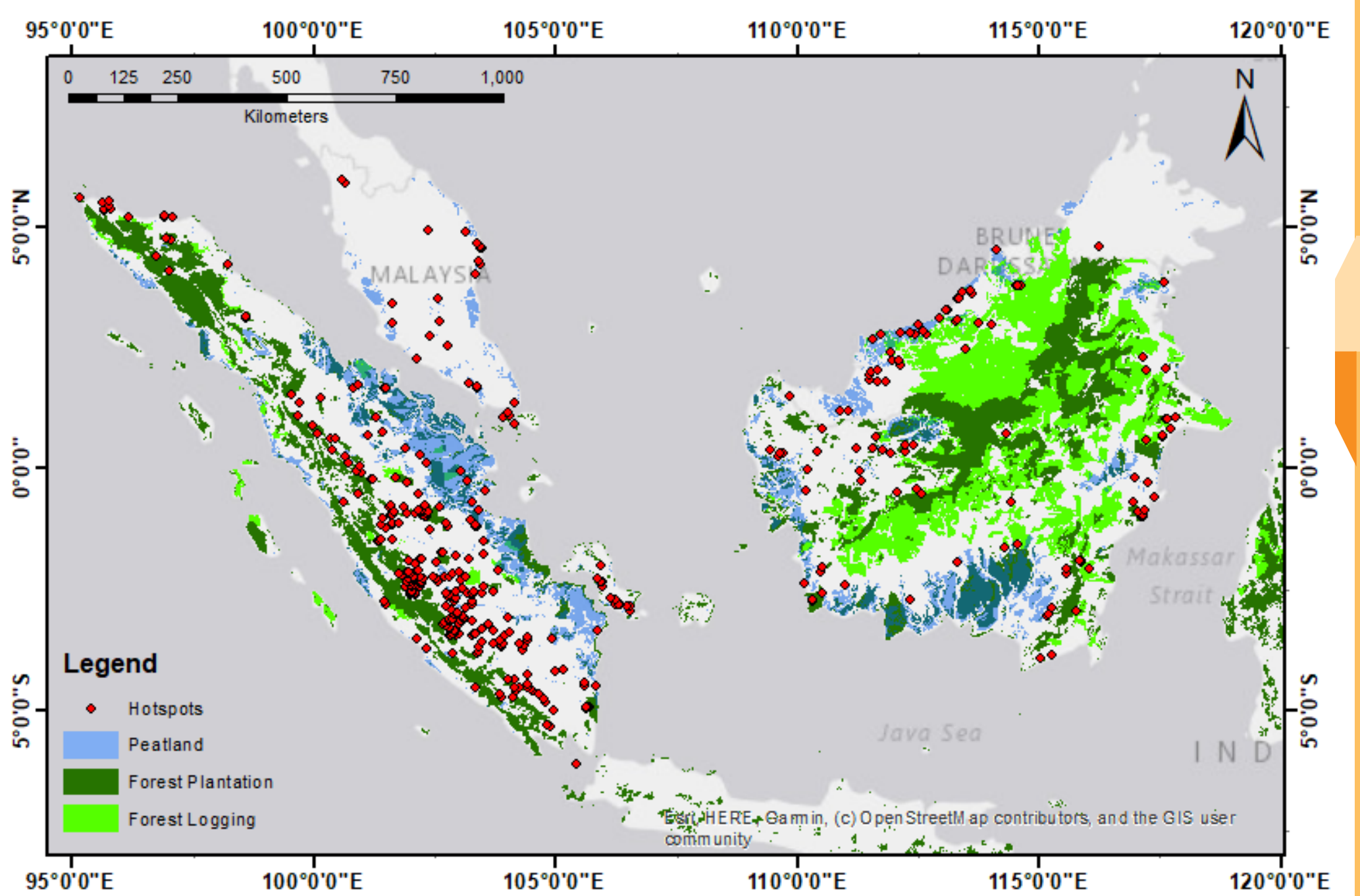
Hotspot Distribution Map

Legend:

●	Hotspot within RSPO member concession
●	Hotspot detected by satellite sensor

21 November 2022 – 27 November 2022

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 fiber 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.

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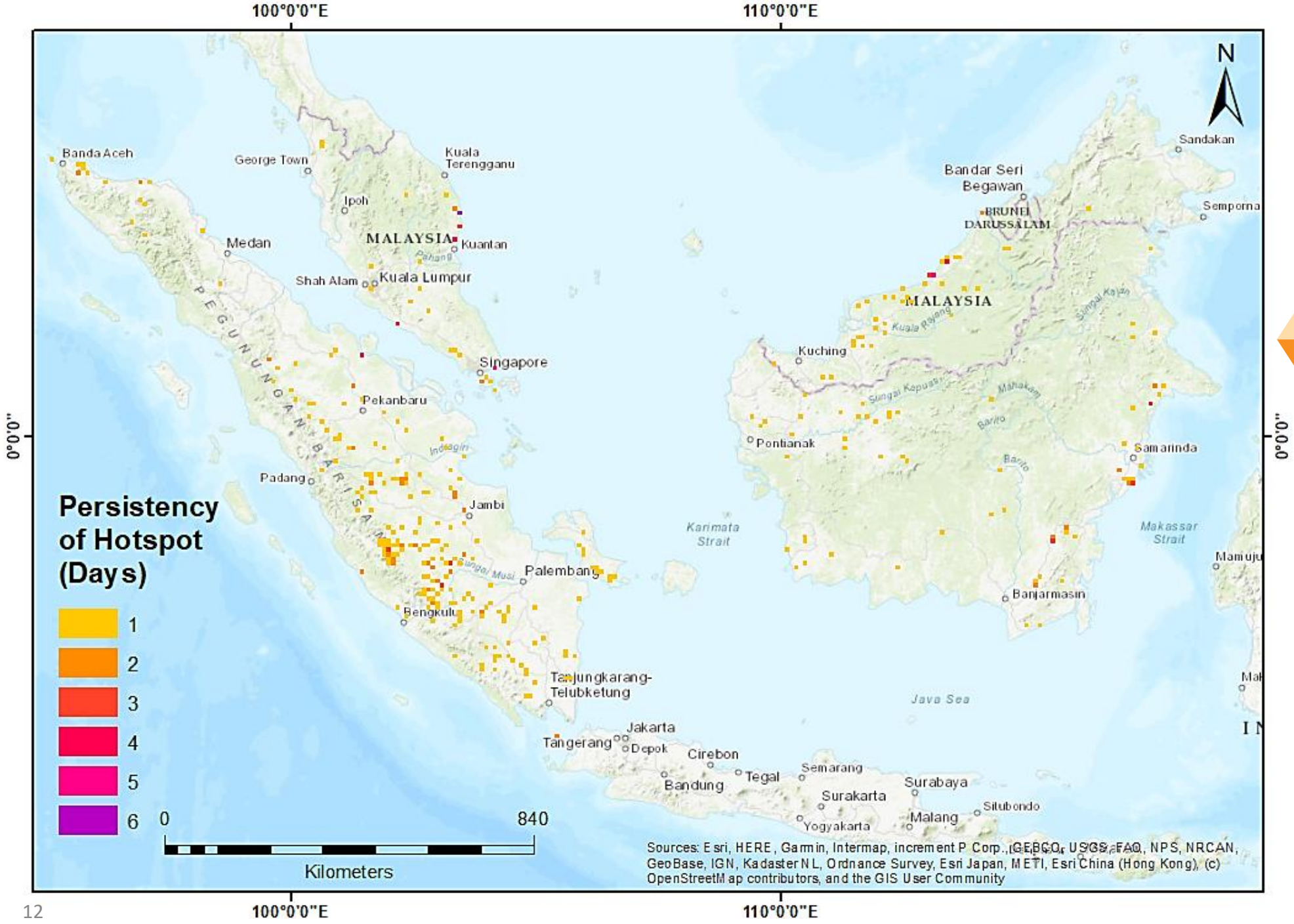
Hotspot Persistency Map



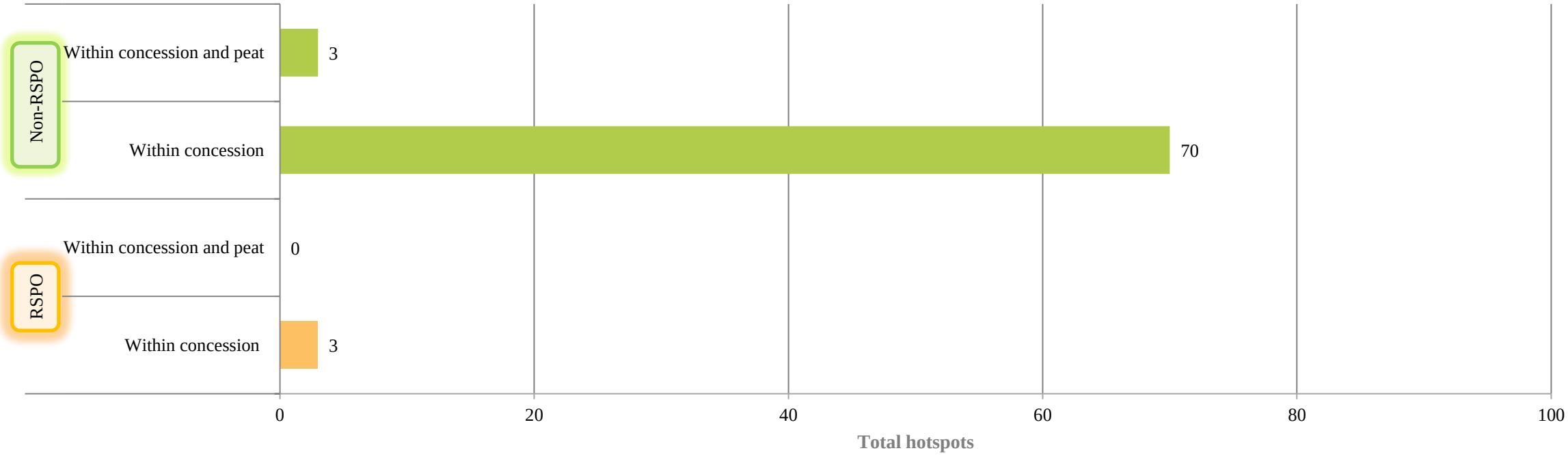
Each grid represents the number of days hotspots were detected within the 10km X 10km grid between 21 November 2022 – 27 November 2022

21 November 2022 – 27 November 2022

NOV2022_WK04 Hotspot

Malaysia & Indonesia
(Sumatera & Kalimantan) Region

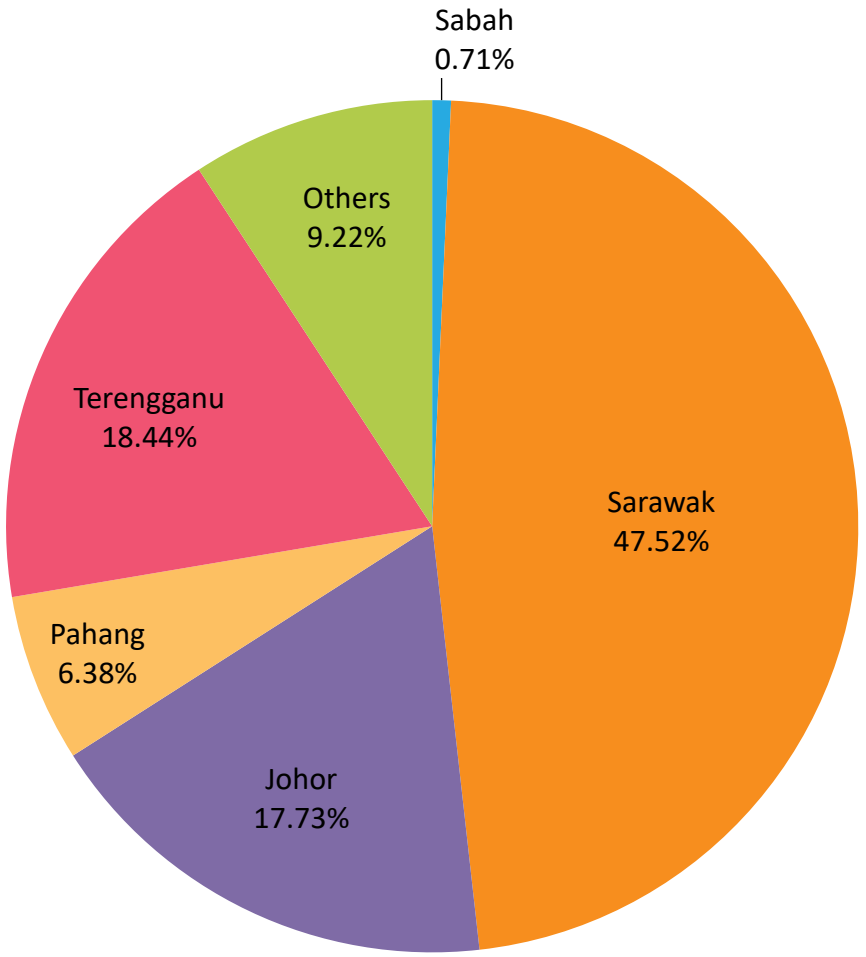
RSPO vs non-RSPO comparison



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: ~ 4,500,000 ha

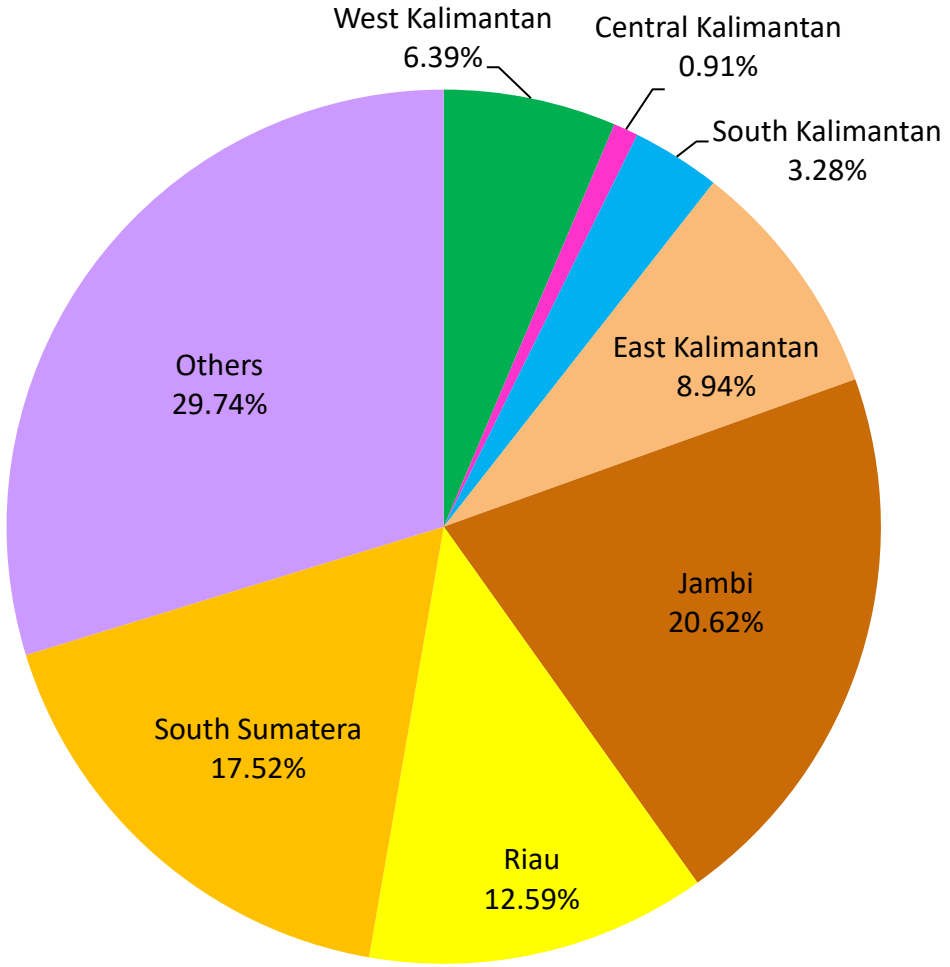
Distribution of Hotspots by State in **Malaysia**



STATE	TOTAL
Sabah	1
Pahang	9
Others	13
Johor	25
Terengganu	26
Sarawak	67
Total	**141**

Distribution of Hotspots by Region in **Indonesia**

REGION	TOTAL
Central Kalimantan	5
South Kalimantan	18
West Kalimantan	35
East Kalimantan	49
Riau	69
South Sumatera	96
Jambi	113
Others	163
Total	**548**



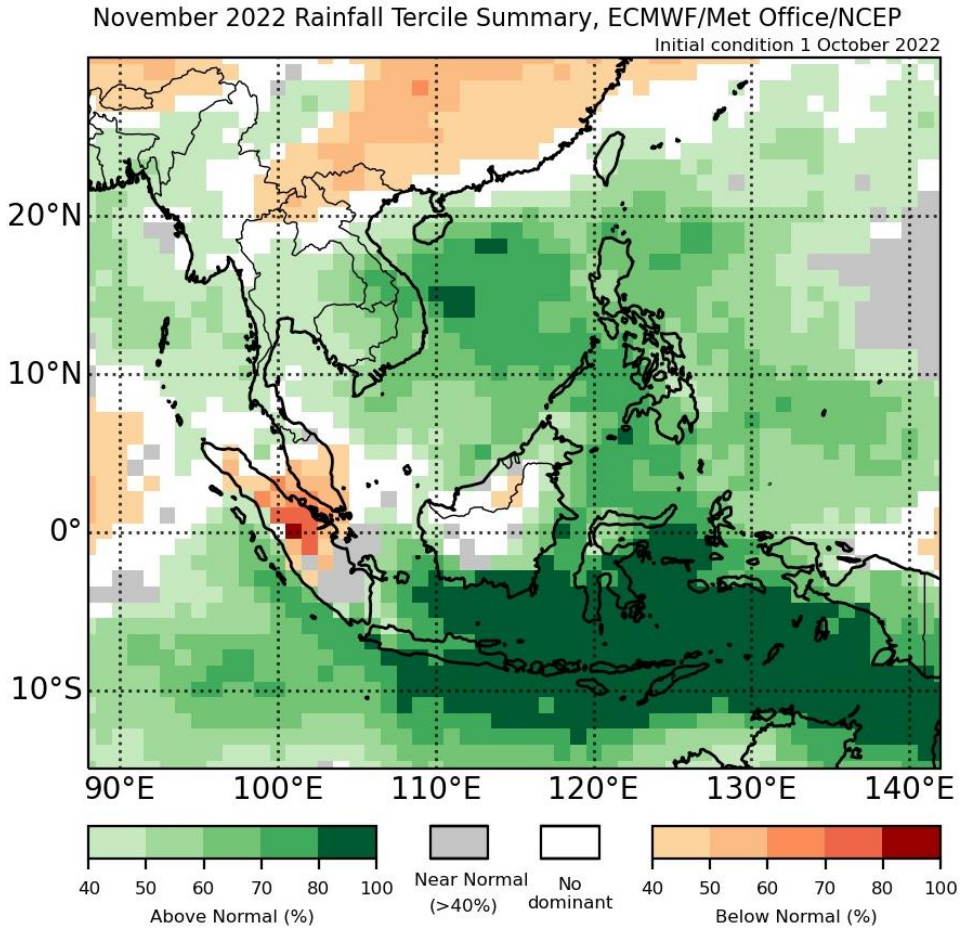
Hotspots in RSPO members (State/Province)

No. of Member/s	Date of Acquisition	District/Regency	Province/State	Country	No. of Hotspots	Total no. of Hotspots
1	21-Nov-22	Musi Rawas	South Sumatra	Indonesia	1	2
	22-Nov-22	Kapuas Hulu	West Kalimantan		1	
1	21-Nov-22	Musi Rawas	South Sumatra	Indonesia	1	1
2				**Total Hotspots**		**3**

ASEAN Weather Outlook

Source: The ASEAN Specialised Meteorological Centre

Regional Weather & Haze Outlook



Wet weather were observed over most parts of the ASEAN region except for the eastern and central parts of the Mekong sub-region as well as the northern and central parts of Myanmar where it was partly cloudy and fair respectively.
The weather is forecast to be wet over many parts of the ASEAN region in the coming days, while drier conditions are expected over central, northwestern and northeastern Mekong sub-region. Isolated hotspots can still occur in the drier regions even as the overall hotspot activity is expected to remain subdued.

Source: The ASEAN Specialised Meteorological Centre

Alert Level

LEVEL 0	Stay vigilant.
LEVEL 1	Dry season for the Southern 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 week, there have been widespread showers over most parts of the southern ASEAN region which has helped to subdue the overall hotspot activity in the region and no significant smoke haze was observed from satellite imagery.
As the prevailing wet weather is forecast to persist over the southern ASEAN region in the coming days, the hotspot activity is expected to remain subdued

21 November 2022 – 27 November 2022

Alert for RSPO members:

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

- 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