



WEC – AMAZON FIRES MONITORING

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Monthly Bulletin for Monitoring Wildfires in the Amazon

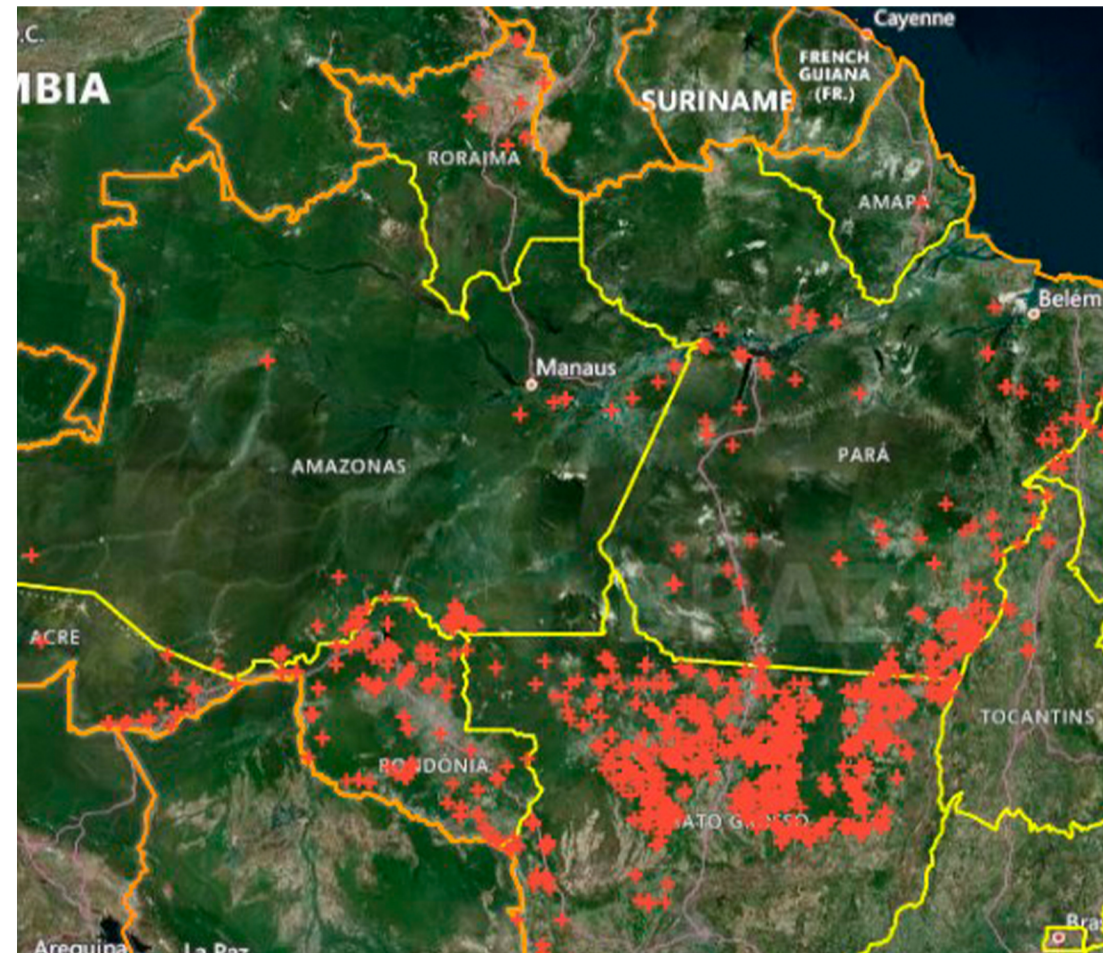
AMAZON FIRES MAY/2022

During May of 2022, there were a total of 2,129 detections (graph 1) of hot spots/fires in the vegetation in the early afternoon passages having been recorded in the entire Amazon biome, through the use of NASA's AQUA, reference satellite (map 1). In the Amazonian states, the following outbreaks of fire were recorded: 1,647 in Mato Grosso (77%), 202 in Pará (9%), 135 in Rondônia (6%), 81 in Amazonas (4%), 33 in Acre (2%), 17 in Maranhão (1%), 14 in Tocantins (1%), 11 in Roraima (0,5%) and 0 in Amapá (0%). When compared to the same month of the previous year, there was an increase of 82% in the number of outbreaks (Table 1).

State	Numbers of outbreaks 2021	Numbers of outbreaks 2022	Variation
Mato Grosso	762	1,647	+116%
Pará	190	202	+06%
Rondônia	91	135	+48%
Amazonas	45	81	+80%
Acre	30	33	+10%
Maranhão	32	17	-53%
Tocantins	13	14	+8%
Roraima	03	11	+166%
Amapá	00	00	00%
Total	1,166	2,129	+82%

Table 1: Outbreaks of fire in Amazonian Legal states in May/2022 according to the reference satellite
Source: Fire Program - CPTEC-INPE / Brazil

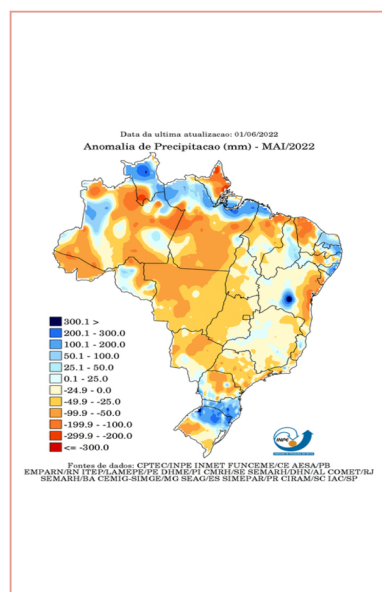
TOTAL FIRES DETECTIONS



Map 1 - Total detections registered in May/2022 by the reference satellite | Source: Fire Program - CPTEC-INPE / Brazil

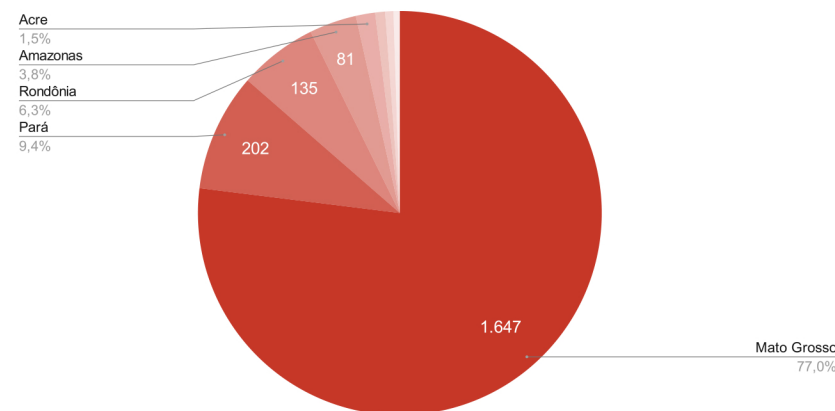
PRECIPITATION ANOMALIES RECORDED DURING MAY/2022

The map of precipitation anomalies (Map 2) indicates that rainfall was above average in the Rondônia and Roraima states. In the other states of the Amazon biome, as Mato Grosso, Amazonas and Acre the rainfall was well below average, leading to an abundance of fires in these drought-ridden areas. In the state of Tocantins, rainfall was close to average.



Map 2 - Precipitation anomalies recorded during May/2022

FIRES BY STATES IN %



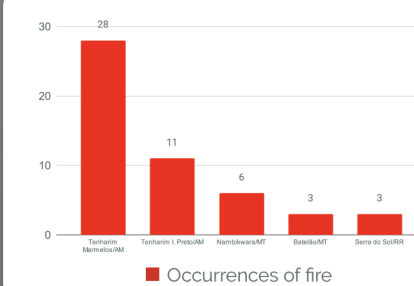
Graph 1: Fire detections registered in May/2022 by states | Source: Fire Program - CPTEC-INPE / Brazil

Municipality	State	Nº of Outbreaks
Feliz Natal	MT	214
Nova Ubiratã	MT	158
Marcelândia	MT	147
Nova Maringá	MT	146
União do Sul	MT	133
S. Felix do Araguaia	MT	86
Sta. Maria das Barreiras	PA	79
Juara	MT	77
Querencia	MT	77
Tabaporã	MT	70

AMAZONIAN MUNICIPALITIES WITH THE MOST RECORDED FIRES

Among the ten Amazonian municipalities (Table 2) that suffered the most from the fires this month, the state of Mato Grosso was the one that recorded the most cases of fires. The total number of hotspots in these ten municipalities was 1.187 hotspots/foci, which represented 18% of all hotspots recorded in Brazil and 56% of all fire hotspots in the Amazon biome.

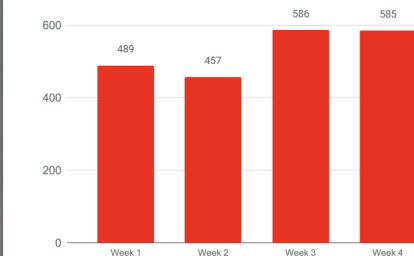
Table 2: Most recorded fires in May/2022 according to the reference satellite.
Source: Fire Program - CPTEC-INPE / Brazil



FIRES BY INDIGENOUS RESERVES IN MAY/2022

Throughout May 2022 fires affected some indigenous reserves of the Brazilian Amazon, most of them in the states of Amazonas and Mato Grosso. The graph 2 shows the five indigenous reserves which experienced the most occurrences of fire during this month. A total of 51 fires/hotspots were registered in indigenous villages, and this number indicates that only 2% of all the fires that occurred in the Amazon were within indigenous reserves.

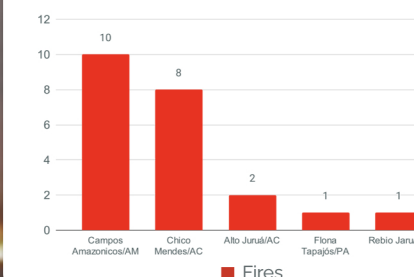
Graph 2: Fires in the indigenous reserver in May/2022
Source: Fire Program - CPTEC-INPE / Brazil



HOTSPOTS/FIRES BY WEEK

The month of May is characterized by the beginning of the drought period in the south of the Amazon region. Therefore, the recorded fires intensified in the last week of this month. (graph 3).

Graph 3: Hotspots/Fires by week in May/2022
Source: Fire Program - CPTEC-INPE / Brazil



FIRES BY FEDERAL CONSERVATION UNITS

Some few federal conservation units such as parks, biological reserves, national forests, etc. recorded fires this month. In total, according to the reference satellite, 22 fires/hotspots, this number indicates that only 1% of fires registered this month occurred in an area that could not have fire, which are the conservation units. Graph 4 shows the Conservation Units that burned the most this month.

Graph 4: Fires by federal conservation units in May/2022
Source: Fire Program - CPTEC-INPE / Brazil

This technical bulletin contains the monthly summary of the main data and outbreaks of fire recorded in the Brazilian Amazon biome, and is based on the information available on the website www.inpe.br/queimadas. The main information reported here refers to the number of outbreaks and the areas burned. The monitoring program of the INPE "Fire Program" makes use of roughly 200 images a day, received from nine different satellites. For comparative temporal and spatial analyzes, only the reference satellite is employed.

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