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382 **Tables and Figures**

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384 **Table 1.** Mean air pollutants concentration over study area between before and during the
385 LSSR period.

Air Pollutants	Before LSSR	LSSR Phase 1	LSSR Phase 2	Percentage reduction after LSSR 1 (%)	Percentage reduction after LSSR 2 (%)
PM10 concentration ($\mu\text{g m}^{-3}$)	0.28	0.26	0.23	7.69	11.54
SO ₂ Column (DU)	0.91	0.14	0.01	84.61	98.90
NO ₂ Tropospheric Column ($\times 10^{13}$ molecule cm^{-2})	107.04	69.83	86.38	34.76	19.30
CO, Mole Fraction (ppbv)	100.03	92.52	87.33	7.51	12.70

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388 **Table 2.** Spearman correlation between case fatality rate of COVID-19 with air pollutants.

Parameter	Case Fatality Rate	PM10	SO ₂	NO ₂	CO
Case Fatality Rate	1	0.514*	0.113	-0.038	-0.016
PM10	0.514*	1	0.078	0.495*	0.313
SO ₂	0.113	0.078	1	-0.102	0.259
NO ₂	-0.038	0.495*	-0.102	1	0.111
CO	-0.016	0.313	0.259	0.111	1

389 *Correlation is significant at the 0.05 level (2-tailed).

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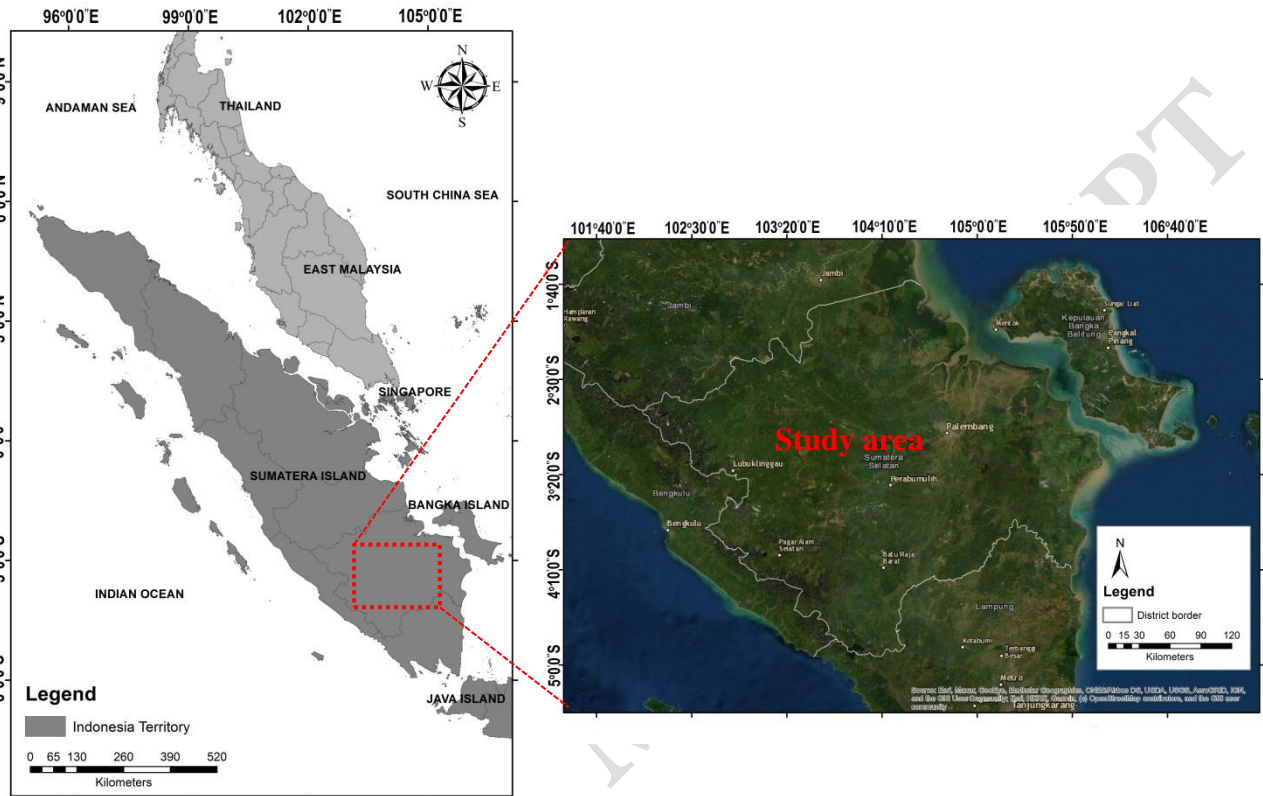


Fig. 1. The location of study area.

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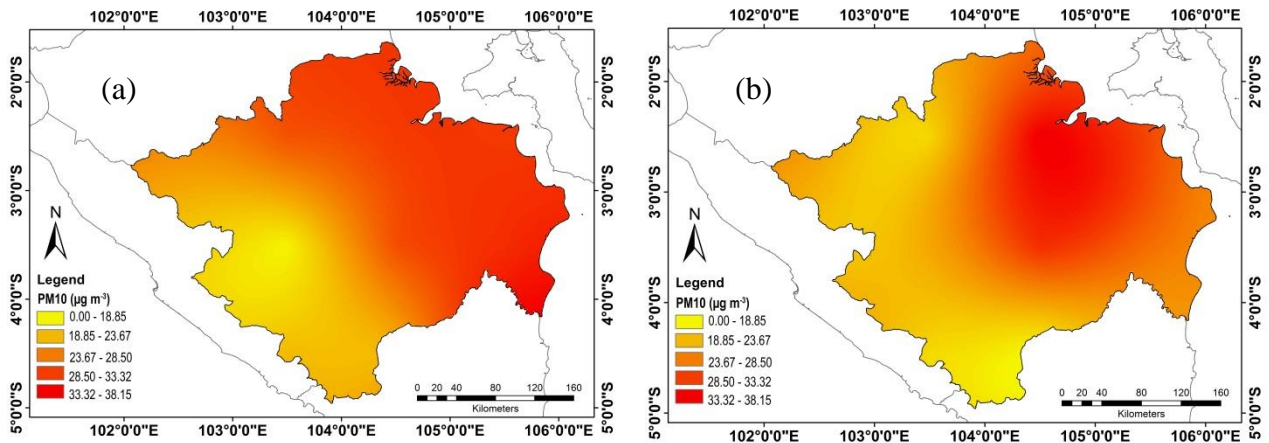
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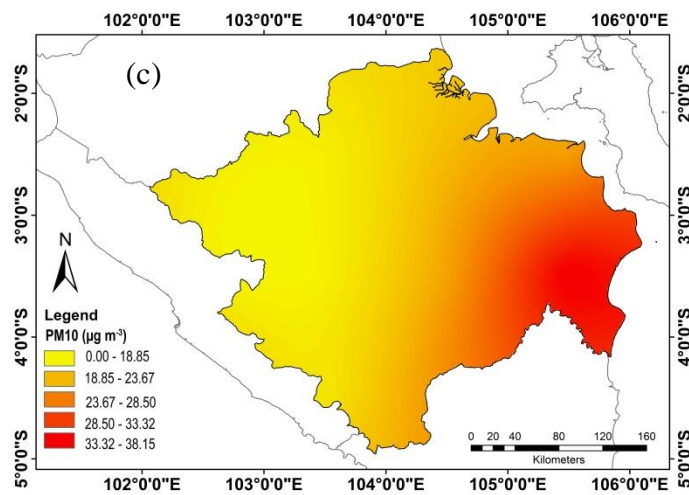
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423 **Fig. 2.** Spatial distribution of PM10 concentration estimated with the MODIS-Terra Satellite over

424 study area before the LSSR (a), during the LSSR phase 1 (b) and during the LSSR phase 2 (c).

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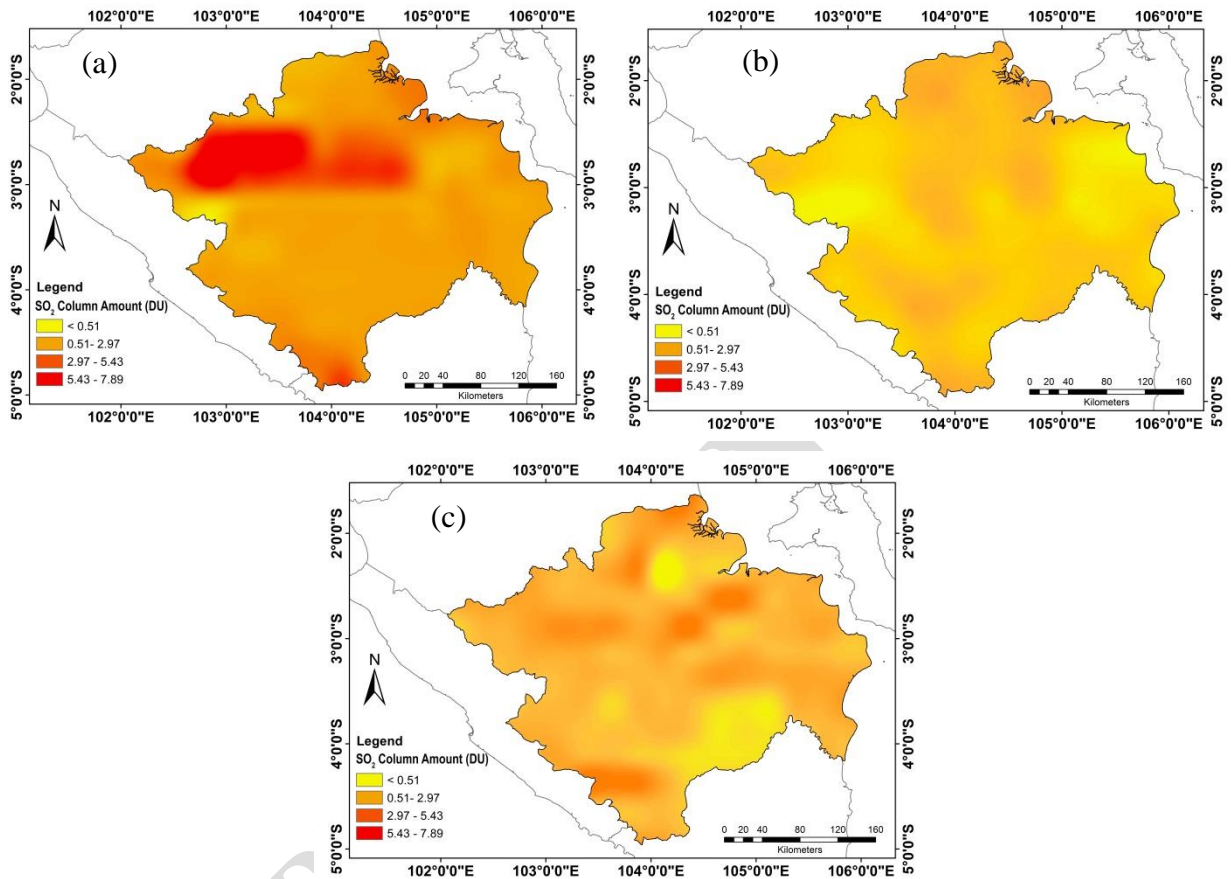
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Fig. 3. Spatial distribution of SO₂ concentration estimated with the NASA's Aura Satellite over study area before the LSSR (a), during the LSSR phase 1 (b) and during the LSSR phase 2 (c).

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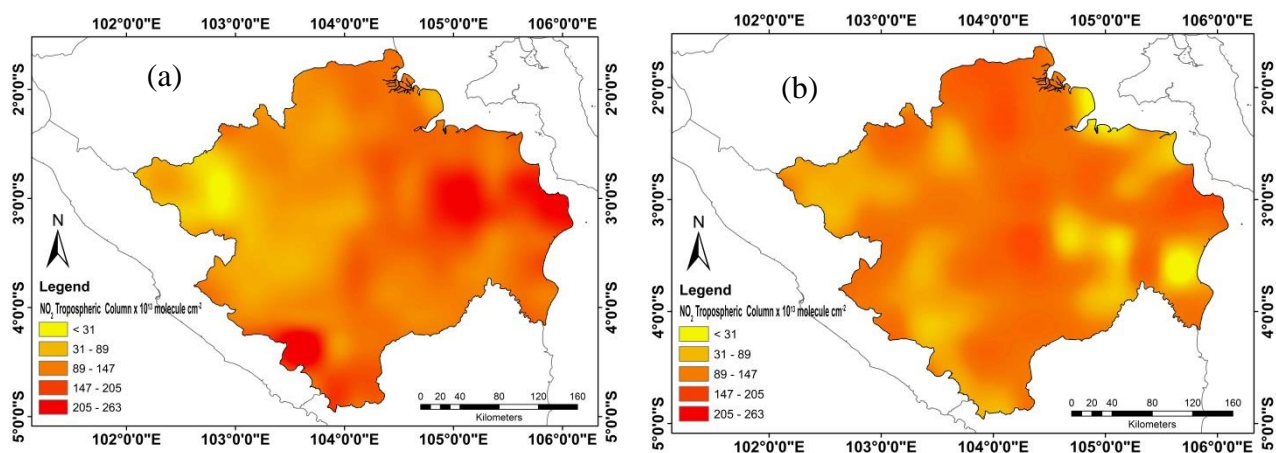
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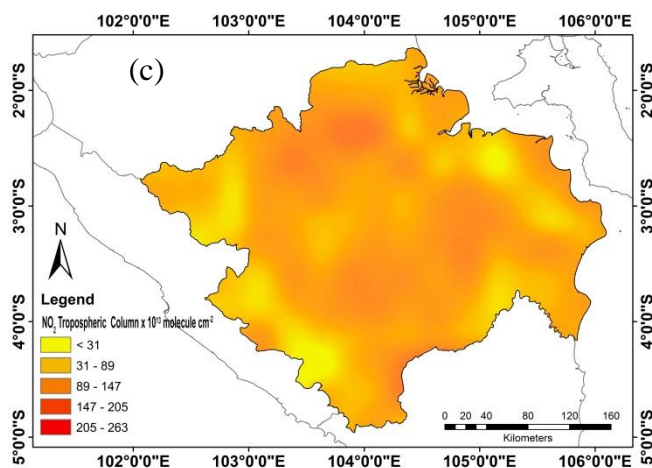
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458 **Fig. 4.** Spatial distribution of NO₂ concentration estimated with the NASA's Aura Satellite over

459 study area before the LSSR (a), during the LSSR phase 1 (b) and during the LSSR phase 2 (c).

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476 **Fig. 5.** Spatial distribution of CO concentration estimated with the NASA's Aqua Satellite over

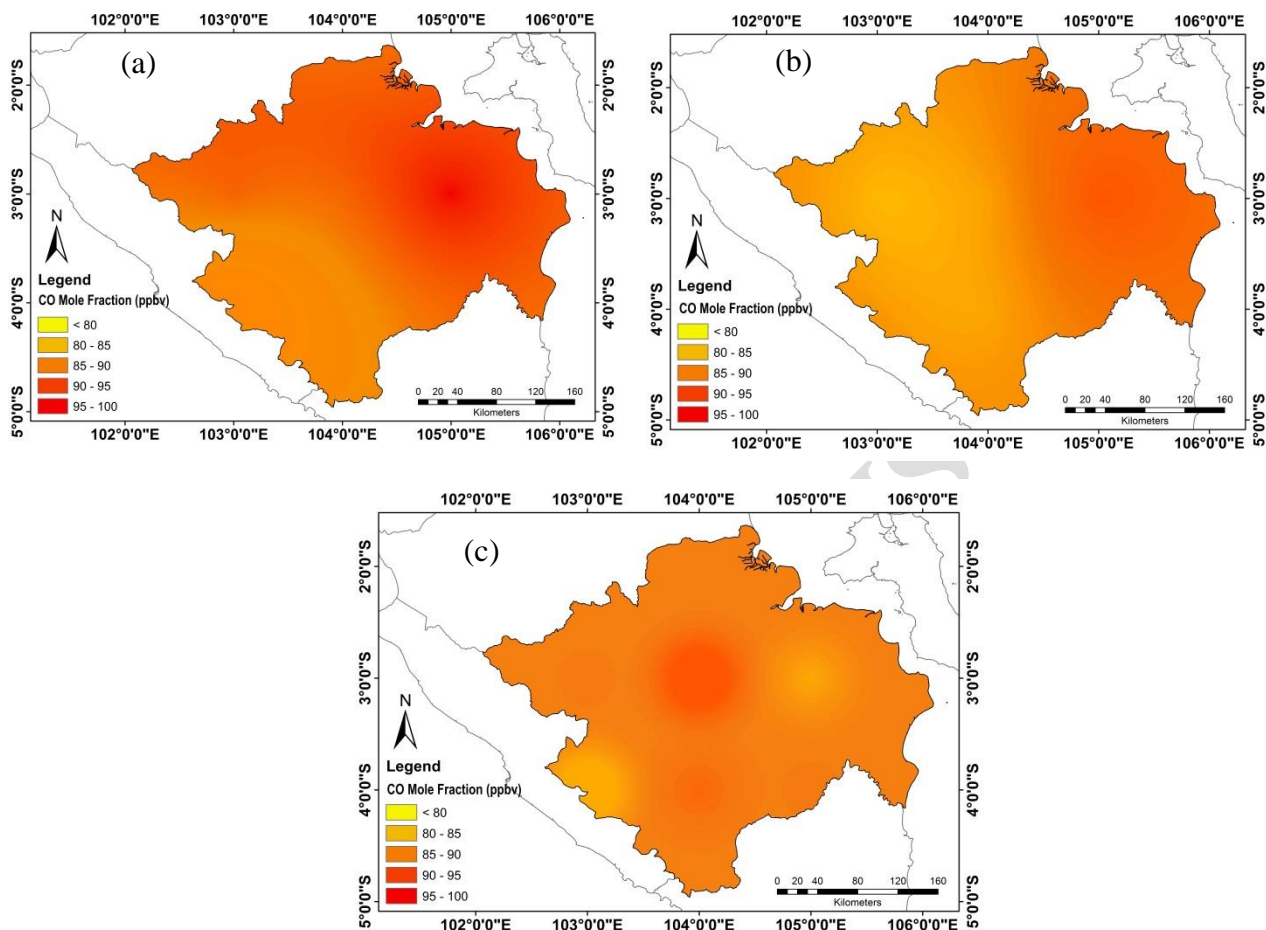
477 study area before the LSSR (a), during the LSSR phase 1 (b) and during the LSSR phase 2 (c).

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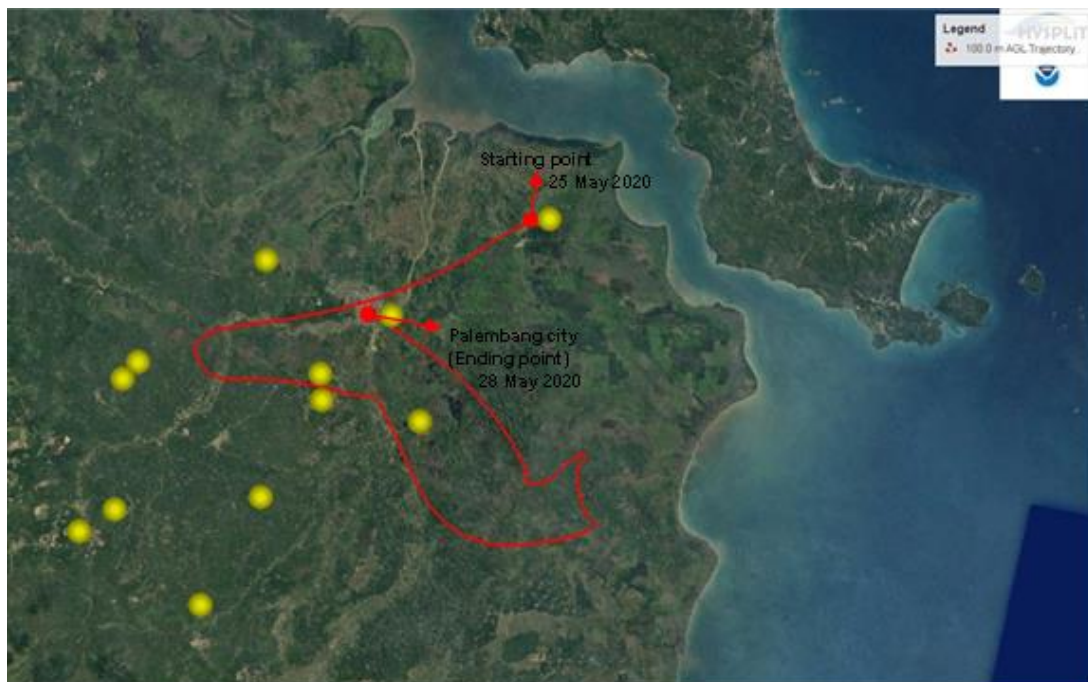
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491 **Fig. 6.** The backward trajectory air pollutant of Palembang city during the LSSR (25 - 28 May
492 2020) with red line is a trajectory line at 100 m above ground level. The yellow dot features are
493 active fire locations from satellites during the same duration.