



PROVISION OF MARINE SEA-STATE PREDICTION



WEATHER FORECAST FOR 2D PANGKALAN BUN PROJECT

Company : PT. Elnusa Tbk
 Contractor : PT. Elnusa Tbk (<http://elnusa.co.id>)
 Metocean Consultant : PT. Bhumi Warih Geohydromatics (<http://bwgeohydromatics.com/>)
 Coordinate : 109.45511 E -3.873303 S
 Date and Time : 2021 Mar 15 13:18 (UTC+7)
 Validity : 168 hours from date of issue
 Forecaster : Delza Dera

Current Tropical Cyclone in the Southern Indonesia area: None.
 Tropical cyclone development possibility: No tropical cyclone development in the next 3 days.

Possibility to develop into tropical cyclone:
 Tuesday (tomorrow) : small possibility
 Wednesday (tomorrow +1): small possibility
 Thursday (tomorrow +2) : small possibility

Note: Small possibility means possibility for the suspect area to develop into tropical cyclone is less than 10%.
 Medium possibility means possibility for the suspect area to develop into tropical cyclone is about 20%-40%.
 Large possibility means possibility for the suspect area to develop into tropical cyclone is more than 50%.

A Tropical advisory and meteorological situation

SAMPLE

Monday 15/03	Tuesday 16/03	Wednesday 17/03	Thursday 18/03	Friday 19/03	Saturday 20/03	Sunday 21/03	Monday 22/03
<i>Morning</i>	<i>Morning</i>	<i>Morning</i>	<i>Morning</i>	<i>Morning</i>	<i>Morning</i>	<i>Morning</i>	<i>Morning</i>
Light and variable winds with smooth seas. Small short period wind. WIND: ENE 3 to 4 kt SEAS: N 0.4 meters at 3 seconds.	Light and variable winds with smooth seas. Small short period wind. WIND: WNW 5 to 7 kt SEAS: NNW 0.2 meters at 3 seconds.	Light and variable winds with smooth seas. Small short period wind. WIND: NW 4 to 5 kt SEAS: NNW 0.1 meters at 4 seconds.	Light winds with slight chop. Small short period wind. WIND: SSE 7 to 10 kt SEAS: WNW 0.1 meters at 4 seconds.	Light winds with slight chop. Small short period wind. WIND: NNW 7 to 9 kt SEAS: WNW 0 meters at 4 seconds.	Breezy whitecapping conditions with moderate choppy seas. Small short period wind. WIND: WSW 11 to 15 kt SEAS: WNW 0 meters at 4 seconds.	Breezy whitecapping conditions with moderate choppy seas. Small short period wind. WIND: WNW 13 to 17 kt SEAS: WNW 0 meters at 4 seconds.	- WIND:- SEAS:-
<i>Afternoon</i>	<i>Afternoon</i>	<i>Afternoon</i>	<i>Afternoon</i>	<i>Afternoon</i>	<i>Afternoon</i>	<i>Afternoon</i>	<i>Afternoon</i>
Light and variable winds with smooth seas. Small short period wind. WIND: WSW 4 to 6 kt SEAS: NNW 0.4 meters at 3 seconds.	Light and variable winds with smooth seas. Small short period wind. WIND: SW 5 to 7 kt SEAS: NNW 0.1 meters at 3 seconds.	Light and variable winds with smooth seas. Small short period wind. WIND: W 5 to 7 kt SEAS: NW 0.1 meters at 4 seconds.	Light and variable winds with smooth seas. Small short period wind. WIND: ESE 4 to 5 kt SEAS: WNW 0.1 meters at 4 seconds.	Light and variable winds with smooth seas. Small short period wind. WIND: W 4 to 6 kt SEAS: WNW 0 meters at 4 seconds.	Breezy whitecapping conditions with moderate choppy seas. Small short period wind. WIND: WNW 13 to 17 kt SEAS: WNW 0 meters at 4 seconds.	Windy conditions with choppy seas. Small short period wind. WIND: WNW 18 to 25 kt SEAS: WNW 0 meters at 4 seconds.	- WIND:- SEAS:-



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VALID AT TIME		15 Mar				16 Mar				17 Mar				18 Mar				19 Mar				20 Mar				21 Mar																															
		00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18																								
WIND	DIR DEG	NW	ENE	W	WSW	W	WNW	SW	SW	WSW	NW	W	W	SE	SSE	SSE	ESE	N	NNW	NW	W	WNW	WSW	WNW	WNW	NW	WNW	W	WNW	311.3	61.3	273.4	245.0	272.2	284.8	222.6	233.1	236.8	312.3	278.6	268.5	140.7	155.4	147.8	123.6	0.1	329.4	315.8	267.0	285.0	246.7	301.0	300.4	305.2	297.3	278.7	294.3
	SPEED GUST	7.3	2.8	2.1	4.1	4.5	5.2	6.2	4.8	5.1	3.6	4.1	5.2	4.3	7.4	5.5	3.7	1.3	6.7	6.6	4.2	7.1	10.6	10.2	12.6	10.8	12.6	21.7	18.4	10.0	3.8	2.8	5.5	6.1	7.0	8.5	6.5	6.9	4.9	5.5	7.0	5.8	10.1	7.4	5.0	1.7	9.2	8.9	5.7	9.7	14.5	13.9	17.2	14.7	17.2	29.5	25.0
	DIR DEG	N	N	WNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	5.5	354.3	303.3	332.1	341.7	342.7	346.6	348.1	342.9	331.3	314.4	305.5	303.2	302.9	302.5	301.9	301.2	300.4	299.5	298.0	297.3	297.4	297.8	298.5	299.3	299.8	300.1	299.7
WAVE	Hmax	0.4	0.4	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
	PERIOD	3.3	3.2	3.2	3.2	3.1	3.1	3.1	3.3	3.5	3.6	3.9	4.2	4.3	4.3	4.2	4.2	4.2	4.3	4.4	4.4	4.4	4.5	4.5	4.5	4.4	4.4	4.3	4.2	3.3	3.2	3.2	3.2	3.1	3.1	3.1	3.3	3.5	3.6	3.9	4.2	4.3	4.3	4.2	4.2	4.2	4.3	4.4	4.4	4.4	4.5	4.5	4.5	4.4	4.4	4.3	4.2
TIDE		0.1	-0.1	0.0	0.0	0.1	-0.1	-0.0	0.0	0.1	-0.1	-0.1	0.0	0.1	-0.1	-0.1	0.0	0.1	-0.1	-0.2	0.0	0.1	-0.0	-0.2	0.0	0.1	0.0	-0.2	0.0	0.1	-0.1	0.0	0.0	0.1	-0.1	-0.1	0.0	0.1	-0.1	-0.2	0.0	0.1	-0.1	-0.2	0.0	0.1	0.0	-0.2	0.0								
WESTERN SWELL	HEIGHT	-	-	-	0.2	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
	PERIOD	-	-	-	3.1	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
	DIR	-	-	-	285.0	296.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
NORTHERN SWELL	HEIGHT	0.2	0.2	0.2	-	-	0.1	0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
	PERIOD	4.2	4.2	4.1	-	-	3.8	3.6	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
	DIR	42.2	32.9	29.7	-	-	351.1	356.1	354.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
EASTERN SWELL	HEIGHT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
	DIR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
SOUTHERN SWELL	HEIGHT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
	DIR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												

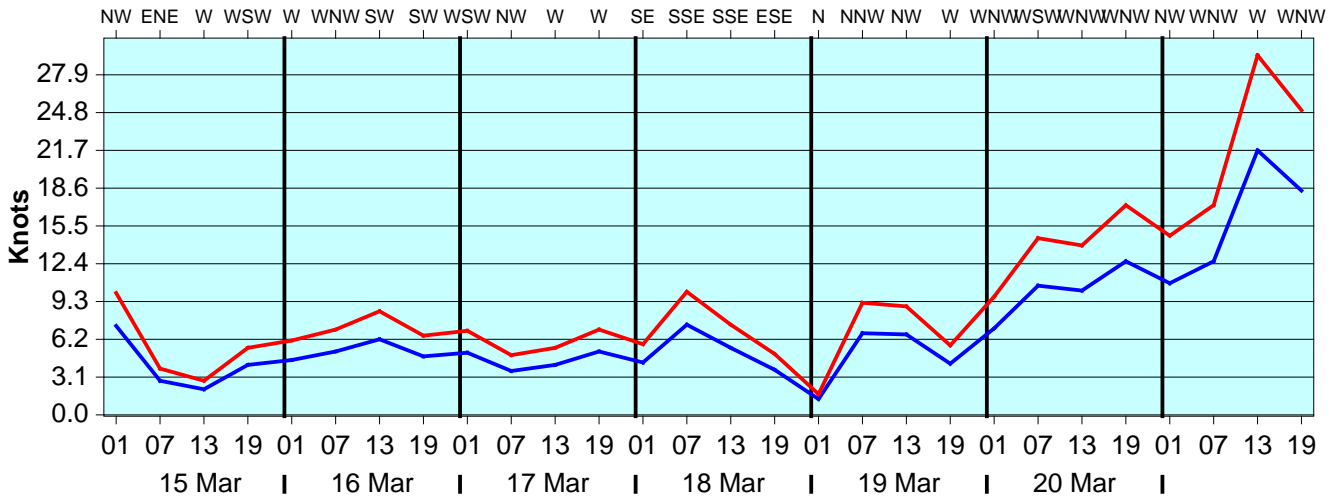
SAMPLE

Note: Wind speed is in knots where 1 knots 0.5 m/sec. SWH (Significant Wave Height) and MWH (Maximum Wave Height) are in meters, SWH is the average of the highest 1/3rd of waves. MWH is the average of the highest 1% of waves.

Disclaimer - Disclosure to third parties is prohibited. User needs to be aware that such information may be incomplete or unable to be used in any specific situation. No reliance must be made without seeking scientific advice. All parties involved exclude all liability to any person for any consequences arising from using this report in part or in whole.

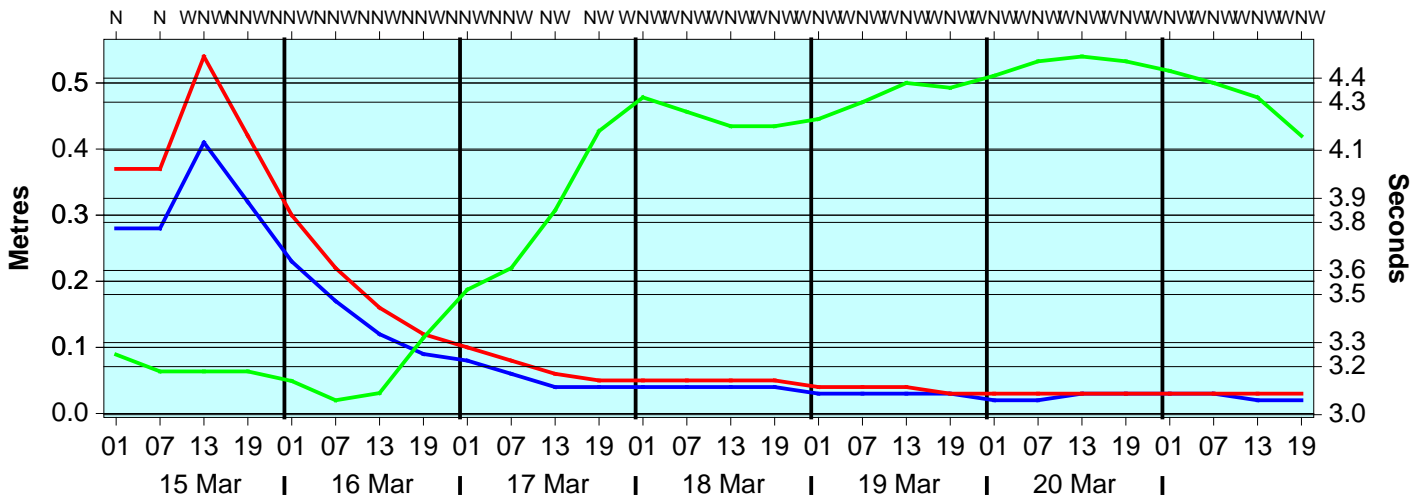
Wind Chart

— Gust — Speed



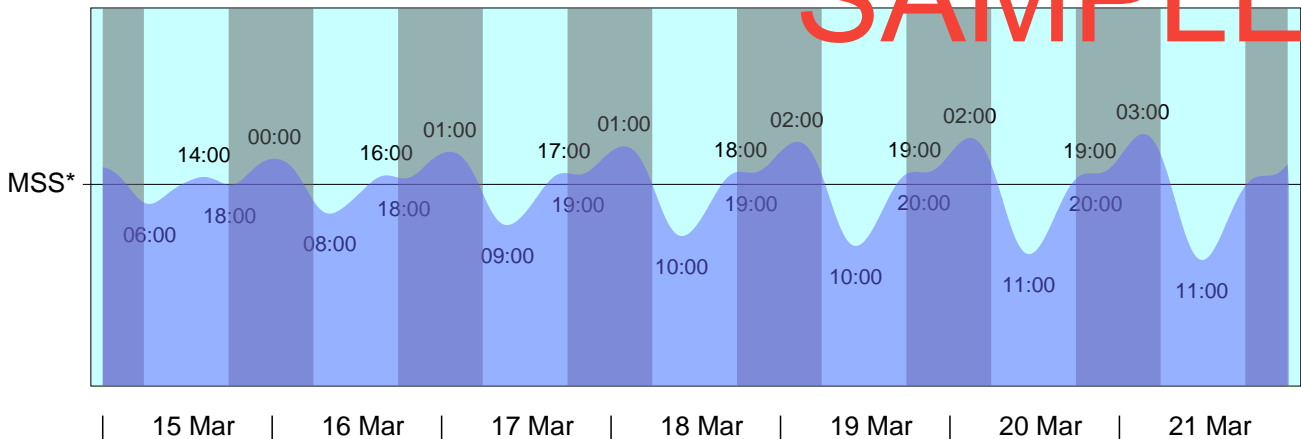
Wave Chart

— Period — Hmax — Hs



Tidal Chart

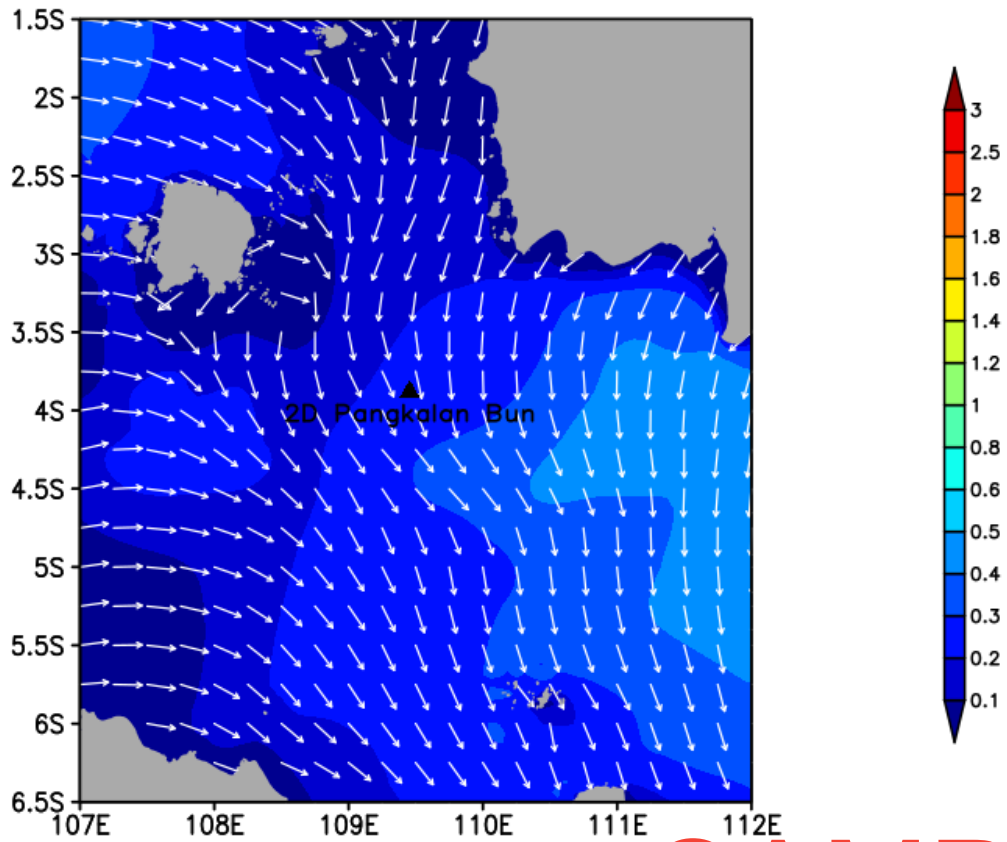
SAMPLE



* approximated as Mean Sea Level (MSL) = Mean Sea Surface (MSS) = 0.00 m above WGS84 ellipsoid

Significant Wave Height (m) & Direction

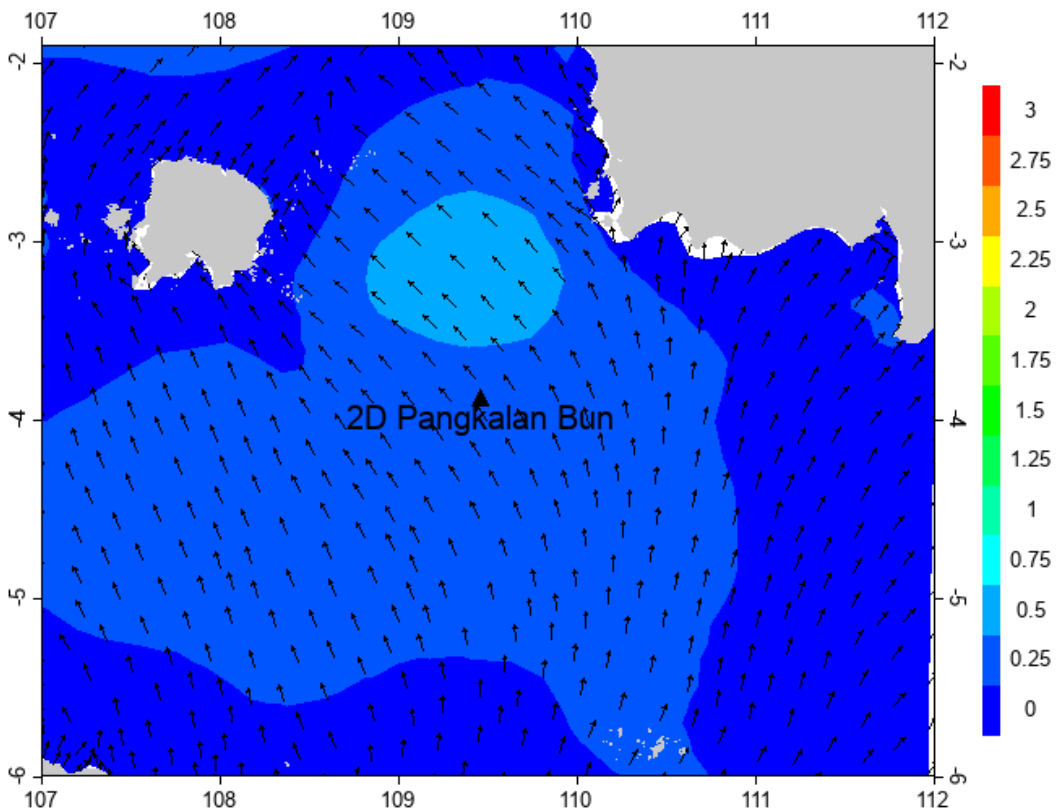
Valid from 2021-03-15 10:00 to 2021-03-15 13:00 (UTC+07)



Current Speed (knots)

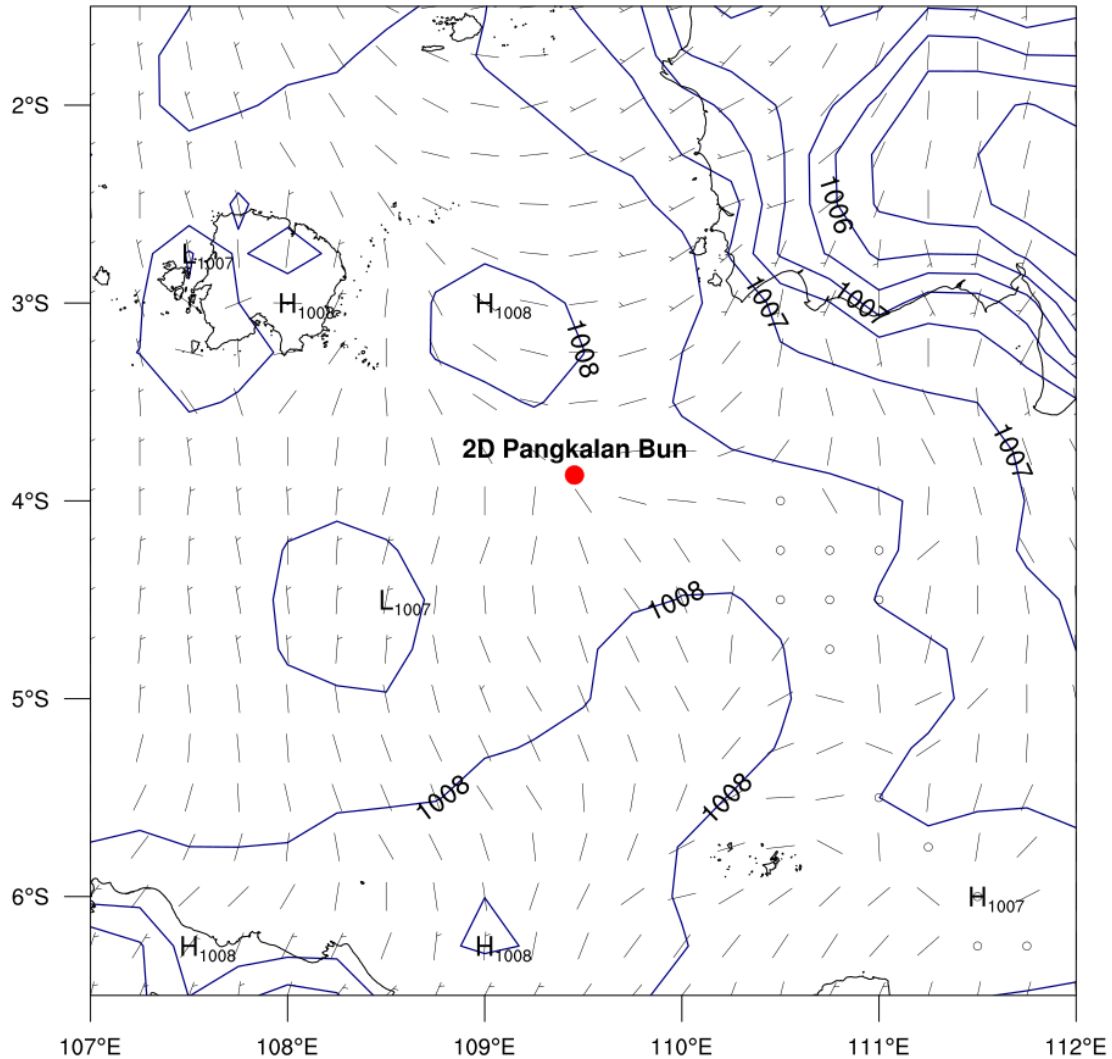
Monday, 15 March 2021 18:00 (UTC +7)

SAMPLE



WIND & ISOBARIC PRESSURE (res. 27 km)

Valid from 2021-03-15 10:00 to 2021-03-15 13:00 (UTC + 7)



SAMPLE