

# **MV Voutakos**

**Prepared Basis: CP Speed** 

madras to cbe

Dep.Date: 06-01-2024 12:00 UTC Arrival.Date: 15-01-2024 07:00 UTC

Condition: Ballast

Report Date: 13-Feb-24

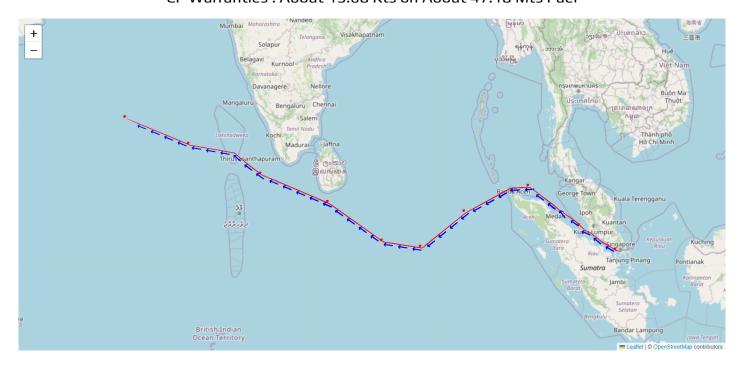
Reference No.:

## **VOYAGE MAP**



Itinerary: madras - cbe

Voyage Leg Date(UTC): 06-01-2024 12:00 - 15-01-2024 07:00 CP Warranties: About 13.68 Kts on About 47.18 Mts Fuel





# **Report Analysis Summary**

Itinerary: madras - cbe

Voyage Leg Date(UTC): 06-01-2024 12:00 - 15-01-2024 07:00

ATD(Z)	Time	V/U/L SFO	HSFO	MGO	MDO
	gain/loss	gain/loss	gain/loss	gain/loss	gain/loss
madras - cbe 06-01-2024 12:00	5446.8 hours(Loss)	Nil	301.92 mt(Loss)	Nil	NA

# **Voyage Details**

Leg Details	ATD(Z)	ETA(Z)		Go	ood Weath	er	Perform	ance	Overall Weather					
			Distance	Steaming Hours	Speed	Total Cons	Distance (Exc currents)	Speed	Distance	Steaming Hours	Speed	Total Cons.		
madras to cbe	2024-01-06	2024-01-15	209	16.0	13.06	22.829999999999	209	13.06	2764	211.0	13.1	386.86		
			209	16.0	13.06	22.8299999999999	209	13.06	2764	211.0	13.1	386.86		

## **Warranted Consumption**

Leg Details	CP Speed	Total Cons.
madras to cbe	About 13.68 kts	About 47.18 MT



## **Report Analysis Summary**

Interpretation of good weather criteria as per CP:

#### **Weather Definition:**

A noon report is counted as fair weather if majority of the noon period is good weather basis analyzed weather

- Wind Force <= 3 Bf, Significant Wave Height <= 1.0 m
- Adverse Currents are excluded

#### Noon Report excluded from evaluation:

Weather Source: Analyzed

Speed used for Analysis : Performed speed All comparisons are done against CP Speed

#### "About" Tolerance:

• For speed: -0.5 / +0.5 Kts

• For consumption : -5.0 / +5.0 %

Good weather performance is extrapolated to overall voyage

\*\*\*Note: The calculations for the report are done on the performed speed by adjusting the effect of currents (If applicable).



# **Speed Summary**

Itinerary: madras - cbe

Voyage Leg Date(UTC) : 06-01-2024 12:00 - 15-01-2024 07:00

CP Warranties: About 13.68 Kts on About 47.18 Mts Fuel

#### **Overall**

Total Distance Sailed	2764 NM
Time at Sea	211.0 hrs
Average Speed	13.1 kts

## **Good Weather**

Total Distance Sailed	209 NM
Time at Sea	16.0 hrs
Average Speed	13.06 kts
Current Factor	0.69 kts
Performance Speed	12.37 kts
Adjusted Time in Good weather	100
C/P Min.Allowable Time	395.86 hrs
C/P Max.Allowable Time	-395.86 hrs
Track Time Loss	411.86 hrs
Applied to Overall Track Time	5446.8 hrs



### **Fuel Consumption Summary**

Itinerary: madras - cbe

Voyage Leg Date(UTC) : 06-01-2024 12:00 - 15-01-2024 07:00

CP Warranties: About 13.68 Kts on About 47.18 Mts Fuel

#### Overall

Average Daily Consumption 44.0 mts

Total Bunkers Consumed at Sea 386.86 mts

Gradewise Distribution of Bunkers consumed at sea

HSFO 382.81 mts
IFO 0.0 mts
GO 4.05 mts

#### **Good Weather**

Actual Usage in Good Weather 22.83 mts

Average Daily Consumption 34.24 mts

Min.Allowable Usage 0.0 mts

Max Allowable Usage 0.0 mts

Fuel Loss 22.83 mts

Fuel Loss applied to overall track 301.92 mts

#### CO2 Emissions Summary

Overall

Total CO2 produced at sea (MT) 1205.05 mts



# **Detailed Weather Analysis**

Itinerary: madras - cbe

Voyage Leg Date(UTC): 06-01-2024 12:00 - 15-01-2024 07:00

CP Warranties: About 13.68 Kts on About 47.18 Mts Fuel

Date/Time	Lat	Lon		Wind	SWH	Wind Wave	S	well	Current factor	Bad Weather Details				Report Da	ta by Ship				
			BFT	Dir.(rel.)		(m)		Dir. (rel.)	Kts		Steaming Hours	Distance (NM)	Wind (Bft)		Ordered Speed (Kts	Avg. Speed (Kts	) RPM	Slip (%)	Course
06th Jan 2024 12:00	1.20		3	78.63	0.07	0.07	0.07	318.65	-0.87		0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	286.00
06th Jan 2024 15:00			3	30.14	0.34	0.34	0.07	325.4	0.79										
06th Jan 2024 18:00			3	12.66	0.34	0.34	0.15	114.89	0.52										
06th Jan 2024 21:00			1	22.12	0.12	0.12	0.12	304.47	0.66										
07th Jan 2024 00:00			2	321.7	0.15	0.17	0.08	278.09	0.68										
07th Jan 2024 04:00	3.10	100.69	2	238.41	0.31	0.13	0.15	323.05	0.78		16.00	209.00	3.00	0.00	13.68	13.06	51.62	0.00	311.00
07th Jan 2024 07:00			4	237.09	0.40	0.35	0.19	343.64	0.41	WI									
07th Jan 2024 10:00			4	228.61	0.55	0.42	0.35	353.16	-0.01	WI,CU									$\overline{}$
07th Jan 2024 13:00			3	267.4	0.69	0.41	0.55	6.4	-0.49	CU									
07th Jan 2024 16:00			3	272.11	0.68	0.22	0.66	27.2	-0.07	CU									
07th Jan 2024 19:00			3	210.92	0.67	0.21	0.64	40.58	-0.49	CU									
07th Jan 2024 22:00			3	142.89	0.93	0.77	0.86	53.35	-0.50	CU									
08th Jan 2024 01:00			5	76.32	1.22	1.22	0.91	56.85	-0.11	WI,WA,CU									
08th Jan 2024 04:00	6.23	96.65	4	82.9	1.11	1.11	0.08	240.59	0.18		24.00	309.00	4.00	0.00	13.58	12.88	53.83	0.00	273.00
08th Jan 2024 07:00			4	79.5	1.14	1.13	0.16	228.99	1.12	WI,WA									
08th Jan 2024 10:00			5	77.69	1.31	1.17	0.57	217.79	1.13	WI,WA									
08th Jan 2024 13:00			5	72.64	1.70	1.30	0.71	209.55	0.02	WI,WA									
08th Jan 2024 16:00			5	61.6	1.81	1.36	1.10	206.12	-0.61	WI,WA,CU									
08th Jan 2024 19:00			4	44.51	1.79	1.28	1.13	206.42	-0.69	WI,WA,CU									
08th Jan 2024 22:00			4	48.92	1.65	1.19	0.97	193.41	-1.27	WI,WA,CU									
09th Jan 2024 01:00			3	64.73	1.53	1.14	0.65	162.7	-2.07	WA,CU									
09th Jan 2024 05:00	4.20	91.53	3	67.45	1.55	1.01	0.79	182.45	-1.96		25.00	344.00	4.00	0.00	12.32	13.76	56.05	0.00	231.00
09th Jan 2024 08:00			2	318.71	1.60	0.96	0.63	197.29	-1.28	WA,CU									+
09th Jan 2024 11:00			2	195.34	1.67	1.17	0.71	84.27	-1.11	WA,CU									
09th Jan 2024 14:00			3	306.56	1.79	1.19	0.69	24.75	-1.03	WA.CU									
09th Jan 2024 17:00			3	277.01	1.79	0.67	0.55	33.81	-1.63	WA,CU									+
09th Jan 2024 20:00			3	299.42	1.79	1.61	0.63	153.38	-1.92	WA,CU									
09th Jan 2024 23:00			4	246,85	1.84	1.36	0.55	98.26	-1.91	WI,WA,CU									
10th Jan 2024 02:00			4	250.08	1.94	1.23	0.49	43.52	-1.82	WI,WA,CU									
10th Jan 2024 05:00	1.42	88.06	4	263.58	1.84	0.97	0.65	187.84	-1.86	,,	24.00	265.00	4.00	0.00	11.59	11.04	55.80	0.00	231.00
10th Jan 2024 08:00			4	277.15	1.73	1.04	0.58	332.77	-1.96	WI,WA,CU									+
10th Jan 2024 11:00			3	296.37	1.63	0.70	0.62	2.78	-1.92	WA,CU									
10th Jan 2024 14:00			3	310.23	1.56	1.05	0.60	200.22	-1.57	WA,CU									
10th Jan 2024 17:00			3	326.6	1.54	0.86	0.64	212.01	-1.36	WA,CU									
10th Jan 2024 20:00			3	340.82	1.51	0.75	0.55	173.73	-1.83	WA,CU									
10th Jan 2024 23:00			3	355.99	1.46	0.68	0.48	151.82	-1.73	WA,CU									
11th Jan 2024 02:00			3	349.78	1.46	0.64	0.49	155.02	-1.86	WA,CU									+
11th Jan 2024 06:00	1.90	84.97	4	19.36	1.53	0.09	0.49	157.38	-1.62	*	25.00	275.00	4.00	0.00	10.98	11.00	55.69	0.00	225.00
11th Jan 2024 09:00			3	33.46	1.57	1.17	0.47	155.39	-0.97	WA,CU									+
11th Jan 2024 12:00			4	50.46	1.61	1.17	0.45	153.24	-0.38	WI,WA,CU									$\vdash$
11th Jan 2024 15:00			4	38.39	1.67	1.37	0.85	210.42	-0.41	WI,WA,CU									$\vdash$
11th Jan 2024 18:00			4	35.82	1.86	1.64	0.79	209.1	-0.27	WI,WA,CU									
11th Jan 2024 21:00			5	49.18	1.89	1.70	0.10	175.88	-0.11	WI,WA,CU									+
12th Jan 2024 00:00			4	45.18	1.84	1.66	0.12	197.75	0.46	WI,WA									
12th Jan 2024 03:00			5	43.57	1.84	1.67	0.71	203.98	0.75	WI,WA									_
12th Jan 2024 06:00	4.94	80.66	5	46.63	1.70	1.52	0.24	327.77	1.47	,	24.00	323.00	4.00	0.00	12.04	13.46	56.27	0.00	248.00
12th Jan 2024 09:00			5	62.56	1.57	1.30	0.28	144.11	2.58	WI,WA									
12th Jan 2024 12:00			1	268.56	1.47	0.60	0.60	199.12	2.44	WA									
12th Jan 2024 15:00			4	17.12	1.49	1.42	0.56	153.2	1.74	WI,WA									
12th Jan 2024 18:00			5	26.56	1.62	1.44	0.31	146.53	1.98	WI,WA									
12 3411 202-7 10.00	ш		-	20.50	1.02	1.44	0.51	1-10.03	1.70	********					1				ш



Date/Time	Lat	Lon	1	Wind	SWH	Wind Wave	S	well	Current factor	Bad Weather Details				Report Data	a by Ship				
			BFT	Dir.(rel.)	Hgt(m)	(m)	Hgt (m)	Dir. (rel.)	Kts		Steaming Hours	Distance (NM)	Wind (Bft)	Current Factor (Kts)	Ordered Speed (Kts)	Avg. Speed (Kts)	RPM	Slip (%)	Course
12th Jan 2024 21:00			6	42.09	1.79	1.68	0.15	324.75	0.47	WI,WA									
13th Jan 2024 00:00			5	52.52	1.90	1.80	0.23	326.36	0.56	WI,WA									
13th Jan 2024 03:00			5	60.37	1.67	1.56	0.28	343.12	0.49	WI,WA									
13th Jan 2024 06:00	7.19	75.34	3	64.21	1.32	0.43	0.29	149.22	0.08		24.00	349.00	4.00	0.00	13.69	14.54	56.75	0.00	248.00
13th Jan 2024 09:00			4	15.63	1.18	0.58	0.26	336.3	-0.58	WI,WA,CU									
13th Jan 2024 12:00			4	37.97	1.16	0.22	0.23	176.34	-0.38	WI,WA,CU									
13th Jan 2024 15:00			4	61.21	1.05	0.18	0.22	177.41	0.07	WI,WA									
13th Jan 2024 18:00			3	55.14	1.02	0.80	0.25	334.34	-0.26	WA,CU									
13th Jan 2024 21:00			2	91.09	1.06	1.01	0.40	191.29	-0.40	WA,CU									
14th Jan 2024 00:00			3	109.27	1.10	0.76	0.42	262.7	-0.00	WA,CU									
14th Jan 2024 03:00			3	96.37	1.11	1.24	0.45	167.12	-0.01	WA,CU									
14th Jan 2024 07:00	9.53	69.62	3	76.08	1.13	1.01	0.48	163.45	-0.14		25.00	363.00	3.00	0.00	13.98	14.52	57.06	0.00	248.00
14th Jan 2024 10:00			3	67.6	1.15	0.66	0.47	116.33	-0.12	WA,CU									
14th Jan 2024 13:00			4	68.85	1.21	0.87	0.37	1.49	0.08	WI,WA									
14th Jan 2024 16:00			4	66.2	1.21	0.96	0.23	200.71	0.00	WI,WA									
14th Jan 2024 19:00			4	62.42	1.20	0.92	0.23	194.33	-0.04	WI,WA,CU									
14th Jan 2024 22:00			4	60.62	1.22	0.86	0.32	175.24	0.41	WI,WA									
15th Jan 2024 01:00			4	64.43	1.26	0.81	0.26	116.77	0.56	WI,WA									
15th Jan 2024 04:00			4	59.8	1.27	0.88	0.21	145.55	0.30	WI,WA									
15th Jan 2024 07:00	11.60	64.54	4	53.6	1.30	0.95	0.17	193.75	0.18		24.00	327.00	3.00	0.00	13.75	13.62	57.06	0.00	248.00



## **Good Weather Summary**

Itinerary: madras - cbe

Voyage Leg Date(UTC) : 06-01-2024 12:00 - 15-01-2024 07:00

CP Warranties: About 13.68 Kts on About 47.18 Mts Fuel

Date	Lat	Log	Steaming Hours	Allowed Steaming Hours	Distance (NM)	Avg - RPM	Slip (%)	Course	F	Bunker ROI	3 (MT)	TT) Bunker Cons. (MT) Allowed Cons. M		Allowed Cons. MT	Good Weather			
									HSFO	VULSFO	MGO	MDO	HSFO	VULSFO	MGO	MDO		
06th Jan 2024 12:00	COSP	madras	0.00	-0.00	0	0.00	0	286	3288.79	0.00	245.81	0.00	0.00	0.00	0.00	0.00	-	NO
07th Jan 2024 04:00	3.10	100.69	16.00	15.86	209	51.62	0	311	3265.96	0.00	245.41	0.00	22.83	0.00	0.40	0.00	31.53	YES
08th Jan 2024 04:00	6.23	96.65	24.00	23.63	309	53.83	0	273	3227.46	0.00	245.01	0.00	38.50	0.00	0.40	0.00	45.68	NO
09th Jan 2024 05:00	4.20	91.53	25.00	29.10	344	56.05	0	231	3177.16	0.00	244.41	0.00	50.30	0.00	0.60	0.00	59.08	NO
10th Jan 2024 05:00	1.42	88.06	24.00	23.89	265	55.80	0	231	3136.96	0.00	243.91	0.00	40.20	0.00	0.50	0.00	47.52	NO
11th Jan 2024 06:00	1.90	84.97	25.00	26.25	275	55.69	0	225	3095.06	0.00	243.46	0.00	41.90	0.00	0.45	0.00	44.06	NO
12th Jan 2024 06:00	4.94	80.66	24.00	27.98	323	56.27	0	248	3046.26	0.00	243.11	0.00	48.80	0.00	0.35	0.00	44.29	NO
13th Jan 2024 06:00	7.19	75.34	24.00	26.46	349	56.75	0	248	2998.56	0.00	242.73	0.00	47.70	0.00	0.38	0.00	44.66	NO
14th Jan 2024 07:00	9.53	69.62	25.00	26.93	363	57.06	0	248	2949.56	0.00	242.26	0.00	49.00	0.00	0.47	0.00	54.62	NO
15th Jan 2024 07:00	EOSP	cbe	24.00	24.68	327	57.06	0	248	2905.98	0.00	241.76	0.00	43.58	0.00	0.50	0.00	51.38	NO



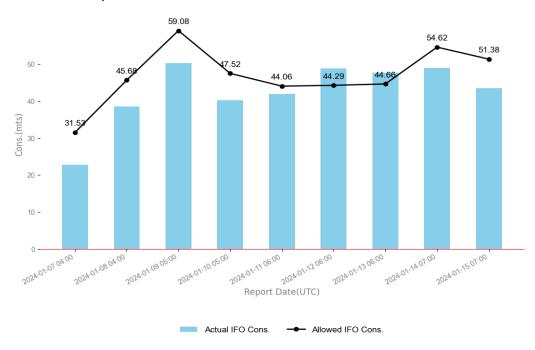
# **Message Traffic**

Report Type	Pos	ition	Date/ Time (GMT)			Since last	report					DTG (NM)	ETA (LT)		AT)		Remarks	
	Lat	Log		Avg Wind (Dir. x Bft)	Avg Sea (Dir. x Height)	Ordered Speed (Kts)	Avg. Speed (Kts)	Course	RPM	Slip (%)	Distance Sailed (NM)			HSFO	V/ULSFO	MGO	MDO	
Departure-madras	1.20	103.57	06th Jan 2024 12:00	337.5 x 3	337.5 x 1.0	0.00	0.00	286	0.00	0	0	0	0	3288.79	0	245.81	0	
Noon	3.10	100.69	07th Jan 2024 04:00	270.0 x 3	270.0 x 0.5	13.68	13.06	311	51.62	0	209	0	0	3265.96	0	245.41	0	
Noon	6.23	96.65	08th Jan 2024 04:00	157.5 x 4	157.5 x 1.0	13.58	12.88	273	53.83	0	309	0	0	3227.46	0	245.01	0	
Noon	4.20	91.53	09th Jan 2024 05:00	202.5 x 4	202.5 x 1.0	12.32	13.76	231	56.05	0	344	0	0	3177.16	0	244.41	0	
Noon	1.42	88.06	10th Jan 2024 05:00	225.0 x 4	225.0 x 1.0	11.59	11.04	231	55.80	0	265	0	0	3136.96	0	243.91	0	
Noon	1.90	84.97	11th Jan 2024 06:00	315.0 x 4	315.0 x 1.0	10.98	11.00	225	55.69	0	275	0	0	3095.06	0	243.46	0	
Noon	4.94	80.66	12th Jan 2024 06:00	337.5 x 4	337.5 x 1.0	12.04	13.46	248	56.27	0	323	0	0	3046.26	0	243.11	0	
Noon	7.19	75.34	13th Jan 2024 06:00	112.5 x 4	112.5 x 1.0	13.69	14.54	248	56.75	0	349	0	0	2998.56	0	242.73	0	
Noon	9.53	69.62	14th Jan 2024 07:00	112.5 x 3	112.5 x 1.0	13.98	14.52	248	57.06	0	363	0	0	2949.56	0	242.26	0	
Arrival-cbe	11.60	64.54	15th Jan 2024 07:00	130.0 x 3	130.0 x 1.0	13.75	13.62	248	57.06	0	327	0	0	2905.98	0	241.76	0	



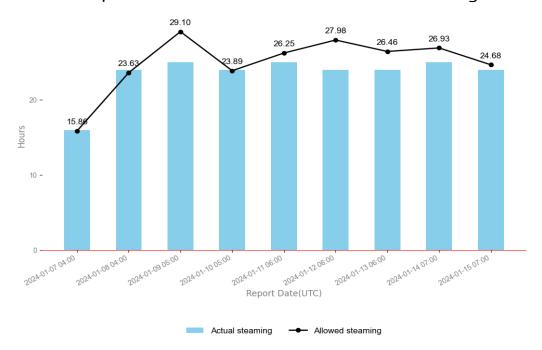
**Fuel Graph** 

Comparison between Actual vs Allowed IFO Cons.



# **Steaming Graph**

Comparison between Actual vs Allowed Steaming





# Annex A - Speed Calculation Detail

L Min. (	C/P allowable time (hrs)										
=	Distance in Good Weather (NM) – (+/- Current Factor x Actual Time in Good Weather) (NM)										
	(Warranted Speed (kts) + About (kts))										
2 Max.	C/P allowable time (hrs)										
=	Distance in Good Weather (NM) – (+/- Current Factor x Actual Time in Good Weather) (NM)										
	(Warranted Speed (kts) – About (kts))										
3 Adjus	ted Time in Good weather										
=	Distance Sailed in Good Weather										
	(Average Speed in Good Weather – Current Factor)										
1 Track	Time Gain = Min. C/P allowable time (hrs) - Adjusted Time in Good weather										
5 Track	Time Loss = Max. C/P allowable time (hrs) - Adjusted Time in Good weather										
5 Track	Time is applied to Overall Track Time										
	Good Weather gain/Loss track time(hrs)										
	Good Weather gain/Loss track time(hrs)  ———————————————————————————————————										
	Good Weather Distance (NM)										



## Annex B - Fuel Consumption Calculation Detail

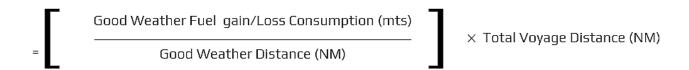
Distance adjusted for current (NM)

= Distance in Good Weather (NM) - (+/- Current Factor × Actual Time in Good Weather)(NM)

1 Min. Allowable Usage (mts)

2 Max Allowable Usage (mts)

- з Good Weather Fuel Gain
  - = Min. Allowable Usage (mts) Actual Usage in Good Weather (mts)
- 4 Good Weather Fuel Loss
  - = Max. Allowable Usage (mts) Actual Usage in Good Weather (mts)
- 5 Good Weather Fuel Gain/Loss Consumption applied to overall track



## Annex C - CO2 Emission Calculation Detail

Total CO2 produced at sea (MT) =  $\Sigma$ (bunker consumed x CO2 factor for particular grade)

\*all CO2 factors are considered as mentioned in IMO GHG Study 2020 (pg.74; Table 21)



#### Weather DataSources

Our weather forecast is based on data from several sources including NOAA server along with two other agencies. The weather projection model consist of 05 days accurate weather forecast along with 09 days extended forecast. For subsequent days, information from historical weather database is used.

#### WAVEWATCH III for Wind/Waves/Swell

WAVEWATCH III is a third generation multi-grid wave model at NOAA/NCEP in the spirit of WAM model.

Update Interval: 6 Hours

Average Resolution Time: 3 Hours

Time Period: 5 Days

Provider: NOAA (National Oceanic & Atmospheric Administration

#### GEFS (Global Ensemble Forecast System) for Wind/Waves/Swell

The Global Ensemble Forecast System (GEFS) is a weather forecast model made up of 21 separate forecast or ensemble members.

Update Interval: 6 Hours

Average Resolution Time: 3 Hours

Time Period: 16 Days

Provider: NOAA (National Oceanic & Atmospheric Administration

#### Copernicus Marine Environment Monitoring Service- for Sea Currents

The Copernicus Marine Environment Monitoring Service is part of the Copernicus Pro- gramme, which is an EU Programme managed by the European Commission (EC) and implemented in partnership with the Member States, the European Space Agency (ESA), the European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT), the European Centre for medium-range Weather Forecasts (ECMWF), EU Agencies and Mercator Ocean. The Programme is aimed at developing a set of European information services based on satellite Earth Observation and in-situ (non-space) data.

Spatial Resolution : 0.08 degree (Lat) x 0.08 degree (Lon)

Temporal Resolution: Hourly mean

Time Period : 7 Days Provider : Copernicus