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## **LAMPIRAN**

**Lampiran 1** Titik Koordinat Kejadian *Coral Bleaching* di *Arabian Gulf/Sea*

Negara	Nama Lokasi	Koordinat		Persentasi CB	Waktu Kejadian	
		Latitude	Longitude		Bulan	Tahun
Oman	Musandam Reefs	26.2500	56.3333	-1	8	1990
United Arab Emirates	Jebel Ali to Ras Hasyan	25.1330	54.9100	3	6	1996
Oman	Dhofar	16.8000	54.0000	3	5	1998
Oman	Mirbat Peninsula	16.9400	54.8100	3	5	1998
Saudi Arabia	Al Wadj	24.2000	36.8000	2	8	1998
Saudi Arabia	Saudi Arabia	22.6000	38.8167	3	8	1998
United Arab Emirates	Jebel Ali to Ras Hasyan	25.1330	54.9100	1	6	1998
Kuwait	Quro Reef	29.5000	49.0000	2	9	2000
United Arab Emirates	Sir Abu Nuayr	25.2110	54.2300	-1	8	2002
Iran	Kish Island	26.5154	54.0491	3	8	2007

**Lampiran 2** *Data Sea Surface Temperature (°C)*

Sea Surface Temperature															
Nama Lokasi	LAT.	LONG.	SST12	SST11	SST10	SST9	SST8	SST7	SST6	SST5	SST4	SST3	SST2	SST1	SST0
Musandam Reefs	26.2500	56.3333	31.941	32.323	31.643	30.549	28.51	25.772	23.818	22.799	23.302	25.241	28.947	30.845	31.988
Jebel Ali to Ras Hasyan	25.1330	54.9100	26.933	29.904	31.592	31.675	32.13	30.704	27.902	24.499	22.323	21.729	22.541	24.869	28.542
Dhofar	16.8000	54.0000	28.119	29.566	29.225	26.562	25.538	26.44	27.498	28.048	26.512	25.929	25.859	27.397	29.135
Mirbat Peninsula	16.9400	54.8100	28.119	29.566	29.225	26.562	25.538	26.44	27.498	28.048	26.512	25.929	25.859	27.397	29.135
Al Wadj	24.2000	36.8000	29.848	30.009	29.087	28.201	27.358	25.359	23.751	23.371	23.238	24.491	26.661	27.609	29.801
Saudi Arabia	22.6000	38.8167	30.766	30.873	30.158	29.669	28.694	26.829	25.224	24.737	24.541	25.863	28.017	28.804	30.649
Jebel Ali to Ras Hasyan	25.1330	54.9100	27.595	30.734	32.045	31.892	32.089	31.299	28.09	24.823	22.223	21.802	22.517	25.404	28.255
Quro Reef	29.5000	49.0000	33.192	31.935	30.081	26.35	21.931	18.713	17.683	18.383	22.352	26.052	29.34	32.029	32.937
Sir Abu Nuayr	25.2110	54.2300	31.947	32.888	31.789	31.421	28.454	26.066	23.683	21.796	23.04	24.925	28.725	31.087	32.504
Kish Island	26.5154	54.0491	31.805	32.815	31.672	31.126	28.612	24.386	22.074	21.573	22.701	25.109	28.863	30.362	31.838

### Lampiran 3 Data NINO 3.4

NINO 3.4															
Nama Lokasi	LAT.	LONG.	NINO12	NINO11	NINO10	NINO9	NINO8	NINO7	NINO6	NINO5	NINO4	NINO3	NINO2	NINO1	NINO0
Musandam Reefs	26.2500	56.3333	26.33	26.42	26.32	26.25	26.46	26.56	26.96	27.33	27.9	28.02	27.64	27.38	27.07
Jebel Ali to Ras Hasyan	25.1330	54.9100	27.59	27.08	26.23	25.88	25.84	25.6	25.65	25.69	25.89	26.67	27.35	27.55	27.29
Dhofar	16.8000	54.0000	28.58	28.82	28.86	28.75	28.85	29.08	29.12	28.89	28.93	28.78	28.62	28.6	28.51
Mirbat Peninsula	16.9400	54.8100	28.58	28.82	28.86	28.75	28.85	29.08	29.12	28.89	28.93	28.78	28.62	28.6	28.51
Al Wadj	24.2000	36.8000	28.75	28.85	29.08	29.12	28.89	28.93	28.78	28.62	28.6	28.51	27.34	26.3	25.57
Saudi Arabia	22.6000	38.8167	28.75	28.85	29.08	29.12	28.89	28.93	28.78	28.62	28.6	28.51	27.34	26.3	25.57
Jebel Ali to Ras Hasyan	25.1330	54.9100	28.82	28.86	28.75	28.85	29.08	29.12	28.89	28.93	28.78	28.62	28.6	28.51	27.34
Quro Reef	29.5000	49.0000	25.63	25.48	25.12	24.86	24.78	25.21	26.3	26.95	27.07	26.94	26.63	26.37	26.2
Sir Abu Nuayr	25.2110	54.2300	26.8	26.52	26.57	26.33	26.19	26.39	26.71	27.29	27.84	28.24	28.44	28.03	27.72
Kish Island	26.5154	54.0491	27.16	27.32	27.41	27.69	27.74	27.24	26.88	27.1	27.5	27.46	27.37	26.71	26.14

### Lampiran 4 Data Pacific Decadal Ocean (PDO)

Pacific Decadal Ocean															
Nama Lokasi	LAT.	LONG.	PDO12	PDO11	PDO10	PDO9	PDO8	PDO7	PDO6	PDO5	PDO4	PDO3	PDO2	PDO1	PDO0
Musandam Reefs	26.2500	56.3333	0.09	0.05	-0.12	-0.5	-0.21	-0.3	-0.65	-0.62	0.27	0.44	0.44	0.27	0.11
Jebel Ali to Ras Hasyan	25.1330	54.9100	1.27	1.71	0.21	1.16	0.47	-0.28	0.16	0.59	0.75	1.01	1.46	2.18	1.1
Dhofar	16.8000	54.0000	1.83	2.76	2.35	2.79	2.19	1.61	1.12	0.67	0.83	1.56	2.01	1.27	0.7
Mirbat Peninsula	16.9400	54.8100	1.83	2.76	2.35	2.79	2.19	1.61	1.12	0.67	0.83	1.56	2.01	1.27	0.7
Al Wadj	24.2000	36.8000	2.79	2.19	1.61	1.12	0.67	0.83	1.56	2.01	1.27	0.7	0.4	-0.04	-0.22
Saudi Arabia	22.6000	38.8167	2.79	2.19	1.61	1.12	0.67	0.83	1.56	2.01	1.27	0.7	0.4	-0.04	-0.22
Jebel Ali to Ras Hasyan	25.1330	54.9100	2.76	2.35	2.79	2.19	1.61	1.12	0.67	0.83	1.56	2.01	1.27	0.7	0.4
Quro Reef	29.5000	49.0000	-1.53	-2.23	-2.05	-1.63	-2	-0.83	0.29	0.35	-0.05	-0.44	-0.66	-1.19	-1.24
Sir Abu Nuayr	25.2110	54.2300	-0.77	-1.37	-1.37	-1.26	-0.93	0.27	-0.64	-0.43	-0.32	-0.63	-0.35	-0.31	0.6
Kish Island	26.5154	54.0491	-0.65	-0.94	-0.05	-0.22	0.14	0.01	0.04	-0.36	0.16	-0.1	0.09	0.78	0.5



**Lampiran 5 Data Indian Ocean Dipole (IOD)**

Indian Ocean Dipole															
Nama Lokasi	LAT.	LONG.	IOD12	IOD11	IOD10	IOD9	IOD8	IOD7	IOD6	IOD5	IOD4	IOD3	IOD2	IOD1	IOD0
Musandam Reefs	26.2500	56.3333	-0.0139	0.16181	-0.0347	-0.0755	0.05838	0.0757	-0.1102	0.02294	-0.1896	-0.135	-0.3607	0.05667	-0.0945
Jebel Ali to Ras Hasyan	25.1330	54.9100	0.12939	0.13813	0.15411	0.20404	0.01051	-0.027	0.31738	0.16045	0.15239	0.0867	-0.1667	-0.0493	-0.1846
Dhofar	16.8000	54.0000	0.24099	0.29127	0.75493	0.9268	1.14284	1.23968	1.52795	1.08461	0.69639	0.60228	0.11679	0.24834	0.35625
Mirbat Peninsula	16.9400	54.8100	0.24099	0.29127	0.75493	0.9268	1.14284	1.23968	1.52795	1.08461	0.69639	0.60228	0.11679	0.24834	0.35625
Al Wadj	24.2000	36.8000	0.9268	1.14284	1.23968	1.52795	1.08461	0.69639	0.60228	0.11679	0.24834	0.35625	0.35891	-0.0642	-0.2659
Saudi Arabia	22.6000	38.8167	0.9268	1.14284	1.23968	1.52795	1.08461	0.69639	0.60228	0.11679	0.24834	0.35625	0.35891	-0.0642	-0.2659
Jebel Ali to Ras Hasyan	25.1330	54.9100	0.29127	0.75493	0.9268	1.14284	1.23968	1.52795	1.08461	0.69639	0.60228	0.11679	0.24834	0.35625	0.35891
Quro Reef	29.5000	49.0000	0.33113	0.18266	0.15163	0.08185	0.06186	0.1738	0.30966	0.34398	0.33007	0.18933	0.38964	0.43284	0.29289
Sir Abu Nuayr	25.2110	54.2300	-0.0015	0.15569	-0.0752	0.021	0.17128	0.03988	0.08686	0.17275	-0.1567	-0.1145	0.01918	0.049	0.08358
Kish Island	26.5154	54.0491	0.52043	0.79979	0.93797	0.75437	0.39231	0.40213	0.33072	0.2753	0.29051	0.48254	0.23923	0.35777	0.53338

**Lampiran 6 Data Sunspot**

Sunspot															
Nama Lokasi	LAT.	LONG.	SUN12	SUN11	SUN10	SUN9	SUN8	SUN7	SUN6	SUN5	SUN4	SUN3	SUN2	SUN1	SUN0
Musandam Reefs	26.2500	56.3333	232	225.1	212.2	238.2	211	227.4	171.8	191.7	189.7	175.2	153.3	191	252.1
Jebel Ali to Ras Hasyan	25.1330	54.9100	22.5	20	18.2	15.7	30.6	14	14	13.3	7.7	12.6	6.8	7.6	16.5
Dhofar	16.8000	54.0000	25.4	20.8	12	35.7	59.7	32.8	50.4	55	44.5	50.2	82	70.6	74
Mirbat Peninsula	16.9400	54.8100	25.4	20.8	12	35.7	59.7	32.8	50.4	55	44.5	50.2	82	70.6	74
Al Wadj	24.2000	36.8000	35.7	59.7	32.8	50.4	55	44.5	50.2	82	70.6	74	90.5	96	121.1
Saudi Arabia	22.6000	38.8167	35.7	59.7	32.8	50.4	55	44.5	50.2	82	70.6	74	90.5	96	121.1
Jebel Ali to Ras Hasyan	25.1330	54.9100	20.8	12	35.7	59.7	32.8	50.4	55	44.5	50.2	82	70.6	74	90.5
Quro Reef	29.5000	49.0000	106.3	168.7	188.3	116	133.1	165.7	217.7	191.5	165.9	188	244	180.5	156
Sir Abu Nuayr	25.2110	54.2300	161.5	238.2	194.1	176.6	213	184.6	170.2	147.1	186.9	187.5	128.8	161	175.6
Kish Island	26.5154	54.0491	20.8	23.7	14.9	35.7	22	29.3	18.4	7.2	5.4	19.5	21.3	15	9.8

## Lampiran 7 Data Monsoon

Monsoon ISMI															
Nama Lokasi	LAT.	LONG.	MON12	MON11	MON10	MON9	MON8	MON7	MON6	MON5	MON4	MON3	MON2	MON1	MON0
Musandam Reefs	26.2500	56.3333	-8.6769	-4.1045	-1.7702	-6.7383	-5.6554	-8.5717	-6.0443	-5.4905	-6.197	-4.0945	-7.0337	-6.344	-10.228
Jebel Ali to Ras Hasyan	25.1330	54.9100	-4.8865	-9.6022	-7.104	-5.1046	-2.9149	-2.9411	-7.4103	-7.592	-7.0218	-7.5762	-5.0917	-3.5945	-8.5811
Dhofar	16.8000	54.0000	-3.9118	-4.8744	-9.8448	-8.3748	-2.808	-3.8949	-4.4305	-5.852	-7.9417	-7.0871	-7.1351	-6.7031	-3.2348
Mirbat Peninsula	16.9400	54.8100	-3.9118	-4.8744	-9.8448	-8.3748	-2.808	-3.8949	-4.4305	-5.852	-7.9417	-7.0871	-7.1351	-6.7031	-3.2348
Al Wadj	24.2000	36.8000	-8.3748	-2.808	-3.8949	-4.4305	-5.852	-7.9417	-7.0871	-7.1351	-6.7031	-3.2348	-8.5369	-8.7226	-6.6238
Saudi Arabia	22.6000	38.8167	-8.3748	-2.808	-3.8949	-4.4305	-5.852	-7.9417	-7.0871	-7.1351	-6.7031	-3.2348	-8.5369	-8.7226	-6.6238
Jebel Ali to Ras Hasyan	25.1330	54.9100	-4.8744	-9.8448	-8.3748	-2.808	-3.8949	-4.4305	-5.852	-7.9417	-7.0871	-7.1351	-6.7031	-3.2348	-8.5369
Quro Reef	29.5000	49.0000	-5.1868	-3.6548	-4.7103	-3.957	-8.0077	-6.6321	-8.2726	-4.9152	-2.9026	-7.6619	-8.6442	-8.7312	-3.747
Sir Abu Nuayr	25.2110	54.2300	-8.4824	-3.1528	-3.425	-3.701	-6.7759	-6.0467	-7.7234	-6.9565	-6.6392	-2.2375	-8.3713	-4.8966	-8.2496
Kish Island	26.5154	54.0491	-8.5924	-7.4447	-3.0847	-4.8899	-7.412	-7.2486	-6.8544	-6.5811	-4.9283	-1.1862	-9.4194	-8.1491	-7.1844

## Lampiran 8 Madden Julian Oscillation (MJO)

Madden Julian Oscillation															
Nama Lokasi	LAT.	LONG.	MJO12	MJO11	MJO10	MJO9	MJO8	MJO7	MJO6	MJO5	MJO4	MJO3	MJO2	MJO1	MJO0
Musandam Reefs	26.2500	56.3333	-0.146774	-0.3173	-0.36742	8.60E-02	-0.5429	-9.52E-02	-0.8871	0.7029032	-0.15667	-0.5635	0.418667	8.42E-02	0.71935
Jebel Ali to Ras Hasyan	25.1330	54.9100	-0.704667	-0.7171	-1.64129	-0.471667	-0.3981	-0.413	0.41645	-0.485161	-0.71966	-0.651	-0.325	0.16129	-1.144
Dhofar	16.8000	54.0000	0.7206452	0.44333	0.637097	1.483226	1.01233	0.5258064	0.13967	-0.228387	0.967419	-0.2471	0.831936	4.60E-02	-0.5771
Mirbat Peninsula	16.9400	54.8100	0.7206452	0.44333	0.637097	1.483226	1.01233	0.5258064	0.13967	-0.228387	0.967419	-0.2471	0.831936	4.60E-02	-0.5771
Al Wadj	24.2000	36.8000	1.483226	1.01233	0.525806	0.1396667	-0.2284	0.9674194	-0.2471	0.8319355	4.60E-02	-0.5771	-0.957	-1.32355	-1.0084
Saudi Arabia	22.6000	38.8167	1.483226	1.01233	0.525806	0.1396667	-0.2284	0.9674194	-0.2471	0.8319355	4.60E-02	-0.5771	-0.957	-1.32355	-1.0084
Jebel Ali to Ras Hasyan	25.1330	54.9100	0.4433333	0.6371	1.483226	1.012333	0.52581	0.1396667	-0.2284	0.9674194	-0.24714	0.83194	4.60E-02	-0.5771	-0.957
Quro Reef	29.5000	49.0000	-0.733667	-1.5219	2.43E-02	-0.109355	-0.5574	-1.086207	-0.1748	-6.30E-02	0.27129	-0.7197	3.87E-02	-0.38129	-0.3543
Sir Abu Nuayr	25.2110	54.2300	0.1577419	-0.505	-0.22581	-9.07E-02	0.75968	-0.407097	0.4	-0.308065	-0.52833	0.54677	-0.373	1.010323	0.48387
Kish Island	26.5154	54.0491	-6.10E-02	-0.6027	0.414516	-0.552	-1.2897	0.2393548	-0.7311	0.5674194	0.127	0.2671	-1.252	-0.74065	-0.8839

**Lampiran 9 Hasil SPSS untuk Prediksi Kejadian *Coral Bleaching* Model 1**

Model Summary <sup>d</sup>										
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics					Durbin-Watson
					R Square Change	F Change	df1	df2	Sig. F Change	
1	.911 <sup>a</sup>	0.83	0.809	0.707	0.83	39.171	1	8	0	
2	.971 <sup>b</sup>	0.942	0.925	0.442	0.112	13.456	1	7	0.008	
3	.986 <sup>c</sup>	0.973	0.959	0.326	0.031	6.873	1	6	0.039	2.627
a. Predictors: (Constant), SUN9										
b. Predictors: (Constant), SUN9, MON5										
c. Predictors: (Constant), SUN9, MON5, IOD5										
d. Dependent Variable: Y										

Coefficients <sup>a</sup>											
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations			Collinearity Statistics	
		B	Std. Error	Beta			Zero-order	Partial	Part	Tolerance	VIF
1	(Constant)	3.448	0.345		9.98	0					
	SUN9	-0.02	0.003	-0.911	-6.259	0	-0.911	-0.911	-0.911	1	1
2	(Constant)	7.651	1.166		6.562	0					
	SUN9	-0.023	0.002	-1.057	-10.64	0	-0.911	-0.97	-0.969	0.841	1.189
	MON5	0.602	0.164	0.364	3.668	0.008	-0.057	0.811	0.334	0.841	1.189
3	(Constant)	9.306	1.067		8.725	0					
	SUN9	0.026	0.002	1.189	-13.368	0	-0.911	-0.984	-0.898	0.57	1.755
	MON5	0.763	0.136	0.462	5.623	0.001	-0.057	0.917	0.378	0.668	1.498
	IOD5	-0.88	0.336	-0.218	-2.622	0.039	0.385	-0.731	-0.176	0.649	1.54
a. Dependent Variable: Y											

**Lampiran 10 Hasil SPSS untuk Prediksi Kejadian *Coral Bleaching* Model 2**

Model Summary <sup>b</sup>										
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics					Durbin-Watson
					R Square Change	F Change	df1	df2	Sig. F Change	
1	.911 <sup>a</sup>	0.83	0.809	0.707	0.83	39.171	1	8	0	3.556
a. Predictors: (Constant), SUN9										
b. Dependent Variable: Y										

Coefficients <sup>a</sup>											
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations			Collinearity Statistics	
		B	Std. Error	Beta			Zero-order	Partial	Part	Tolerance	VIF
1	(Constant)	3.448	0.345		9.98	0					
	SUN9	-0.02	0.003	-0.911	-6.259	0	-0.911	-0.911	-0.911	1	1
a. Dependent Variable: Y											

**Lampiran 11 Hasil SPSS untuk Prediksi Kejadian *Coral Bleaching* Model 3**

Model Summary <sup>b</sup>										
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics					Durbin-Watson
					R Square Change	F Change	df1	df2	Sig. F Change	
1	.057 <sup>a</sup>	0.003	-0.121	1.715	0.003	0.026	1	8	0.875	2.091
a. Predictors: (Constant), MON5										
b. Dependent Variable: Y										

Coefficients <sup>a</sup>											
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations			Collinearity Statistics	
		B	Std. Error	Beta			Zero-order	Partial	Part	Tolerance	VIF
		1	(Constant)	1.179			3.856		0.306	0.768	
1	MON5	-0.095	0.583	-0.057	-0.163	0.875	-0.057	-0.057	-0.057	1	1
a. Dependent Variable: Y											

**Lampiran 12 Hasil SPSS untuk Prediksi Kejadian *Coral Bleaching* Model 4**

<b>Model Summary<sup>b</sup></b>										
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics					Durbin-Watson
					R Square Change	F Change	df1	df2	Sig. F Change	
1	.385 <sup>a</sup>	0.148	0.041	1.586	0.148	1.388	1	8	0.273	2.519
a. Predictors: (Constant), IOD5										
b. Dependent Variable: Y										

<b>Coefficients<sup>a</sup></b>											
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations			Collinearity Statistics	
		B	Std. Error	Beta			Zero-order	Partial	Part	Tolerance	VIF
1	(Constant)	1.169	0.734		1.593	0.15					
	IOD5	1.549	1.314	0.385	1.178	0.273	0.385	0.385	0.385	1	1
a. Dependent Variable: Y											