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Lampiran 1 Data Pengambilan Arus

Hari/Tanggal	Jam Drifter	Cuaca	Titik amat	Depth (m)	Waktu (s)	Kecepatan (m/s)	Kode GPS	Kondisi Drifter	GPS Koordinat
Selasa, 06 - 09 -2022	14:10	Cerah Berawan	<i>Outlet Canal Pendingin</i>	6,2	576	0,135	OUT		184
	14:37	Cerah Berawan	<i>Cooling Water Intake</i>	9	628	0,159	CWI		185
	14:58	Cerah Berawan	Barat Berbas	14,5	700	0,127	BEORBAS		186
	15:15	Cerah Berawan	Offshore Monitoring Sta.	17,8	670	0,164	JAKAP		187
Rabu, 07 - 09 - 2022	8:01	Cerah	<i>Outlet Canal Pendingin</i>	6	928	0,195	O2		188
	8:39	Cerah	<i>Cooling Water Intake</i>	9,4	617	0,103	ICW2		189
	8:13	Cerah	Barat Berbas	14,7	804	0,152	BB2		190
	9:26	Cerah	Offshore Monitoring Sta.	18,6	875	0,148	JK2		191-192
	11:19	Cerah Berawan	<i>Outlet Canal Pendingin</i>	6	376	0,047	OS3		193
	11:36	Cerah Berawan	<i>Cooling Water Intake</i>	9,1	374	0,149	ICW3	Drifter Jatuh	194
	12:05	Cerah Berawan	Barat Berbas	14,5					196
	12:31	Cerah Berawan	Offshore Monitoring Sta.	17,6					197
	17:08	Cerah	<i>Outlet Canal Pendingin</i>	6,1					198
	17:15	Cerah	<i>Cooling Water Intake</i>	9,3					199
	17:32	Cerah	Barat Berbas	15,4					200
17:48	Cerah	Offshore Monitoring Sta.	21					201	
Kamis, 08-09-2022	7:45	Cerah	<i>Outlet Canal Pendingin</i>	6,1	472	0,317	O81		202
	8:28	Cerah	<i>Outfall</i>	2	Drifter tidak turun				203
	9:17	Cerah	<i>Cooling Water Intake</i>	9,1	332	0,158	IN81		204
	9:34	Cerah	Barat Berbas	14,6	582	0,145	BB81		205
	9:50	Cerah	Offshore Monitoring Sta.	17,7	606	0,164	JK81		206

	12:54	Cerah Berawan	<i>Outlet Canal Pendingin</i>	5,5	413	0,058	O82		211	
	12:26	Cerah Berawan	<i>Cooling Water Intake</i>	8,6	214	0,168	IN82		209	
	11:58	Cerah Berawan	Barat Berbas	14,3	704	0,166	BB82		208	
	11:38	Cerah Berawan	Offshore Monitoring Sta.	17,5	865	0,036	JK82		207	
	16:56	Cerah	<i>Outlet Canal Pendingin</i>	6,4		Drifter Patah			214	
	17:12	Cerah	<i>Cooling Water Intake</i>	9,6						
	17:31	Cerah	Barat Berbas	14,9						213
	17:53	Cerah	Offshore Monitoring Sta.	18,5						212
Jumat, 09 - 09 -2022	9:48	Cerah Berawan	<i>Outlet Canal Pendingin</i>	5,8	395	0,190	O91		218	
	9:27	Cerah Berawan	<i>Cooling Water Intake</i>	9,8	422	0,169	IN91		217	
	9:07	Cerah Berawan	Barat Berbas	15,3	408	0,248	BB91		216	
	8:51	Cerah Berawan	Offshore Monitoring Sta.	18	578	0,282	JK91		215	
	15:47	Gerimis	<i>Outlet Canal Pendingin</i>	6,3	400	0,094	O92		222	
	15:41	Gerimis	<i>Cooling Water Intake</i>	9,8	486	0,119	IN92		221	
	15:21	Gerimis	Barat Berbas	15,5	367	0,111	BB92		220	
	15:08	Gerimis	Offshore Monitoring Sta.	18,3	345	0,049	JK92		219	
	17:36	Berawan	<i>Outlet Canal Pendingin</i>	8,3	433	0,068	O93		223	
	18:01	Berawan	<i>Cooling Water Intake</i>	10,5	370	0,205	IN93		224	
	18:15	Berawan	Barat Berbas	15	528	0,121	BB93		225	
18:34	Berawan	Offshore Monitoring Sta.	18,8	297	0,170	JK93		226		
Sabtu, 10 - 09 -2022	9:27	Gerimis	<i>Outlet Canal Pendingin</i>	6,1	425	0,307	O101		229	
	9:07	Gerimis	<i>Cooling Water Intake</i>	10,6	447	0,152	IN101			
	8:41	Gerimis	Barat Berbas	15,1	466	0,127	BB101		228	
	8:23	Gerimis	Offshore Monitoring Sta.	18,6	676	0,193	JK101		227	
	11:36	Gerimis	<i>Outlet Canal Pendingin</i>	4	360	0,206	O102			
	11:54	Gerimis	<i>Cooling Water Intake</i>	8,9	402	0,196	IN102			
	12:09	Gerimis	Barat Berbas	14,2	534	0,064	BB102		230	

	12:23	Gerimis	Offshore Monitoring Sta.	17,4	452	0,135	JK102		231
	17:01	Berawan	<i>Outlet Canal Pendingin</i>	6,5	382	0,115	O103		232
	17:22	Berawan	<i>Cooling Water Intake</i>	10,2	392	0,090	IN103		233
	17:39	Berawan	Barat Berbas	15,8	463	0,128	BB103		234
	17:48	Berawan	Offshore Monitoring Sta.	18,6	430	0,116	JK103		235
Minggu, 11 - 09 -2022	9:21	Berawan	<i>Outlet Canal Pendingin</i>	6,3	439	0,266	O111		236
	9:01	Berawan	<i>Cooling Water Intake</i>	9,8	410	0,147	IN111		237
	8:36	Berawan	Barat Berbas	15,7	525	0,131	BB111		238
	8:15	Berawan	D	18,9	705	0,207	JK111		239
	17:28	Cerah Berawan	<i>Outlet Canal Pendingin</i>	6,7	426	0,120	O113		
	17:47	Cerah Berawan	<i>Cooling Water Intake</i>	10,1	327	0,122	IN113		
	17:59	Cerah Berawan	Barat Berbas	15,9	535	0,089	BB113		238
	18:17	Cerah Berawan	Offshore Monitoring Sta.	19	426	0,114	JK113		239
Senin, 12 - 09 -2022	9:25	Cerah	<i>Outlet Canal Pendingin</i>	6,6	511	0,266	O		
	8:53	Cerah	<i>Cooling Water Intake</i>	10	841	0,132	IN121		
	9:28	Cerah	Barat Berbas	15,9	567	0,078	BB121		241
	7:48	Cerah	Offshore Monitoring Sta.	20,3	1674	0,232	JK121		240
	13:52	Cerah	<i>Outlet Canal Pendingin</i>	5,2	931	0,087	O122		
	13:32	Cerah	<i>Cooling Water Intake</i>	8,2	362	0,172	IN122		
	13:11	Cerah	Barat Berbas	14,4	412	0,093	BB122		244
	12:54	Cerah	Offshore Monitoring Sta.	17,2	760	0,105	JK122		243
	16:45	Cerah Berawan	<i>Outlet Canal Pendingin</i>	6,3	395	0,272	O123		246
	17:07	Cerah Berawan	<i>Cooling Water Intake</i>	9,8	335	0,117	IN123		247
	17:22	Cerah Berawan	Barat Berbas	15,6	399	0,198	BB123		248
	17:33	Cerah Berawan	Offshore Monitoring Sta.	19,1	541	0,271	JK123		249

Lampiran 2 Data Kualitas Air

Tanggal	Jam	Titik Amat	Temperatur (°C)	DO (mg/L)	Salinitas (ppt)
Selasa, 06 - 09 -2022	13:51	Outlet Canal Pendingin	31,04	15,34	0,85
	14:03		31,04	15,34	0,85
	14:52	Cooling Water Intake	29,81	8,93	10,72
	14:44		29,46	6,97	17,46
	15:05	Barat Berbas	29,36	8,39	0
	15:07		29,56	5,53	31,02
	15:26	Offshore Monitoring Sta.	28,49	7,11	30,13
	15:28		29,4	5,8	30,72
	15:22		29,21	8,09	17,44
Rabu, 07 - 09 - 2022	8:12	Outlet Canal Pendingin	30,56	5,88	31,83
	8:13		29,36	5,19	30,97
	8:32	Cooling Water Intake	28,26	8,32	7,53
	8:35		28,36	6,66	22,08
	9:07	Barat Berbas	29,14	3,35	28,75
	9:09		29,52	5,14	31,21
	9:05		28,26	9,88	6,43
	9:29	Offshore Monitoring Sta.	30,1	9,81	14,35
	9:31		29,68	6,44	30,93
	9:27		29,93	6,01	28,16
	11:20	Outlet Canal Pendingin	33,89	7,5	30,83
	11:18		31,85	7,91	27,89
	11:40	Cooling Water Intake	30,15	7,06	8,83
	11:39		30,39	8,91	30,31
	12:00	Barat Berbas	29,87	5,67	27,79
	12:07		29,42	8,62	9,13

	12:04		29,73	6,71	27,97
	12:12	Offshore Monitoring Sta.	29,76	8,22	17,18
	12:17		29,37	6,94	16,78
	12:15		29,44	7,45	21,55
	17:01		Outlet Canal Pendingin	33,81	4,16
	16:58	31,38		8,25	8,91
	17:13	Cooling Water Intake	31,64	6,84	12,96
	17:17		30,36	6,36	25,4
	17:27	Barat Berbas	30,17	7,55	16,99
	17:33		29,5	6,3	30,43
	17:30		29,48	6,38	13,41
	17:41	Offshore Monitoring Sta.	29,72	10,63	5,67
	17:46		29,16	6,34	25,15
	17:44		29,21	6,03	31,36
Kamis, 08-09-2022	8:33	Outlet Canal Pendingin	33,72	5,3	31,45
	8:36		31,08	4,96	29,96
	8:49	Outfall	38,18	3,96	31,56
	8:57		34,4	9,31	5,78
	9:13	Cooling Water Intake	32,05	7,04	8,83
	9:17		30,69	6,16	30,73
	9:39	Barat Berbas	31,31	6,61	12,6
	9:43		30,18	5,5	30,13
	9:41		30,32	5,36	29,77
	9:53	Offshore Monitoring Sta.	31,45	9,11	8,92
	9:59		31,01	7,14	12,92
	9:56		30,27	6,66	30,39
		12:42	Outlet Canal Pendingin	30,9	7,65

	12:46		31,55	6,58	13,33
	12:21	<i>Cooling Water Intake</i>	30,8	5,93	30,93
	12:25		30,4	5,97	30,75
	12:02	Barat Berbas	30,94	7,45	16,49
	12:04		30,24	5,91	30,27
	12:07		30,32	6,18	23,71
	11:41	Offshore Monitoring Sta.	31,94	7,48	27,51
	11:45		30,98	6,23	30,7
	11:49		30,51	9,09	30,3
	17:21	<i>Outlet Canal Pendingin</i>	32,61	6,44	21,44
	17:22		31,65	6,71	17,21
	17:09	<i>Cooling Water Intake</i>	32,17	6,79	24,62
	17:10		31,24	6,69	13,02
	16:55	Barat Berbas	33,26	6,77	12,52
	16:56		30,99	6,28	24,39
	16:58		31,24	6,88	8,79
	16:45	Offshore Monitoring Sta.	33,8	8,24	8,73
	16:46		31,53	5,61	30,49
	16:49		31,86	6,47	17,5
Jumat, 09 - 09 -2022	9:45	<i>Outlet Canal Pendingin</i>	32,4	6,85	22,65
	9:47		33,01	5,61	30,78
	9:24	<i>Cooling Water Intake</i>	29,43	7,78	13,41
	9:26		29,82	6,47	30,91
	9:12	Barat Berbas	29,17	6,99	17,22
	9:10		28,6	8,68	9,26
	9:13		29,31	6,77	21,51
	8:57	Offshore Monitoring Sta.	29,8	6,42	31,08

	8:59		29,43	6,83	31,16
	9:00		29,3	6,52	31,07
	16:02	<i>Outlet Canal Pendingin</i>	31,45	6,43	31,06
	16:00		30,09	10,07	8,99
	15:38	<i>Cooling Water Intake</i>	30,93	8,69	25,18
	15:41		30,37	6,91	13,71
	15:27	Barat Berbas	31,47	6,37	24,03
	15:23		30,78	6,25	21,57
	15:26		30,2	6,21	30,63
	15:03	Offshore Monitoring Sta.	31,78	5,97	30,06
	15:05		30,97	5,67	30,22
	15:07		30,08	6,59	30,73
	17:42	<i>Outlet Canal Pendingin</i>	30,11	6,22	22,2
	17:40		28,91	6,97	18,2
	17:54	<i>Cooling Water Intake</i>	29,58	6,87	21,79
	17:58		29,92	6,21	30,98
	17:56		29,83	6,28	31,02
	18:23	Barat Berbas	29,84	6,6	17,94
	18:22		29,43	5,84	30,55
	18:19		28,88	7,41	12,99
	18:30	Offshore Monitoring Sta.	30,05	7,68	27,58
	18:36		29,27	6,17	31,23
	18:33		29,21	6,53	25,55
Sabtu, 10 - 09 -2022	9:25	<i>Outlet Canal Pendingin</i>	29,56	7,23	17,84
	9:28		30,13	5,5	30,82
	9:04	<i>Cooling Water Intake</i>	28,69	6,53	28,44
	9:05		28,46	7,32	9,41

9:06		28,96	6,23	30,45
9:47	Barat Berbas	28,09	6,52	28,86
9:46		28,75	6,3	30,29
9:44		27,41	7,69	5,4
8:27		26,7	7,49	12,94
8:29	Offshore Monitoring Sta.	28,97	6,08	31,22
8:28		28,61	5,82	32,21
11:32	<i>Outlet Canal Pendingin</i>	32,42	5,07	29,82
11:34		30,85	6,58	16,69
11:53	<i>Cooling Water Intake</i>	30,15	6,21	30,61
11:55		29,84	6,49	26,26
12:12	Barat Berbas	30,02	6,13	23,81
12:15		29,75	6,36	31,08
12:13		29,72	5,99	30,39
12:27	Offshore Monitoring Sta.	29,75	8,13	5,3
12:29		29,61	8,46	9,09
12:28		29,8	6,52	30,6
17:00	<i>Outlet Canal Pendingin</i>	31,05	6,55	29,75
16:59		30,88	7,23	21,93
17:19	<i>Cooling Water Intake</i>	30,76	7,96	5,39
17:21		30,13	6,41	27,67
17:20		30,4	7,46	6,91
17:39	Barat Berbas	30,29	7,02	29,77
17:42		29,84	6,38	30,31
17:41		30,05	6,76	25,59
17:50		Offshore Monitoring Sta.	29,88	7,08
17:55	29,64		6,6	15,28

	17:53		29,64	6,8	15,37
Minggu, 11 - 09 -2022	9:19	<i>Outlet Canal Pendingin</i>	30,18	7,82	29,3
	9:22		30,15	4,96	26,25
	8:56	<i>Cooling Water Intake</i>	29,48	6,9	29,38
	8:58		29,58	6,5	30,48
	8:35	Barat Berbas	29,3	8,13	29,18
	8:38		29,32	5,77	30,96
	8:40		29,39	5,71	31,17
	8:18	Offshore Monitoring Sta.	29,15	6,49	30,97
	8:21		29,05	6,74	22,11
	8:20		29,1	6,19	25,76
	17:28	<i>Outlet Canal Pendingin</i>	29,66	6,53	31,11
	17:30		29,55	6,22	31,05
	17:45	<i>Cooling Water Intake</i>	28,25	8,12	5,65
	17:46		29,23	6,57	25,74
	17:46		29,48	5,81	30,65
	18:07	Barat Berbas	29,42	5,03	30,47
	18:03		29,34	5,29	31,49
	18:05		29,27	5,07	31,13
	18:13	Offshore Monitoring Sta.	29,65	6,52	30,92
	18:16		29,27	5,72	31,02
18:15	29,27		4,98	30,92	
Senin, 12 - 09 -2022	9:28	<i>Outlet Canal Pendingin</i>	31,29	5,47	30,61
	9:26		30,85	5,17	29,97
	9:23		30,61	5,8	30,39
	8:50		29,84	4,7	30,53
	8:56		29,57	4,27	32,09

8:53		29,72	4,87	30,8
8:24	Barat Berbas	29,19	6,62	31,1
8:31		29,42	5,16	31,03
8:27		29,28	6,4	30,88
8:09		28,18	6,28	31,06
7:52	Offshore Monitoring Sta.	28,94	5,52	30,63
8:06		28,7	5,1	31,35
13:50	<i>Outlet Canal Pendingin</i>	33,98	4,49	29,96
13:52		31,06	6,33	30,5
13:29	<i>Cooling Water Intake</i>	30,4	5,94	30,71
13:30		30,04	6,17	26,63
13:14	Barat Berbas	30,52	5,88	28,97
13:18		29,85	6,09	30,35
13:16		30,1	5,62	30,46
12:58	Offshore Monitoring Sta.	30,82	6,65	30,2
13:06		30,13	5,42	30,57
13:04		30,41	5,82	30,09
16:44	<i>Outlet Canal Pendingin</i>	32,65	5,65	29,88
16:46		31,47	6,07	29,68
17:04	<i>Cooling Water Intake</i>	31,38	7,68	27,57
17:06		30,94	6,45	30,29
17:24	Barat Berbas	30,46	6,05	30,34
17:27		29,81	5,95	30,87
17:26		29,97	6,09	30,81
17:34	Offshore Monitoring Sta.	30,18	8,59	30,36
17:38		29,8	4,68	30,34
17:36		29,66	6,37	30,63

Lampiran 3 Data Pasang Surut

Tanggal	Jam	Elevasi (m)
Selasa, 06 - 09 -2022	10,02	150
	11,19	146
	12,44	147,5
	15,35	160
Rabu, 07 - 09 - 2022	7:38	1,82
	9:53	1,4
	10:56	1,3
	12:28	1,38
	16:32	1,88
	18:03	1,82
	18:37	1,77
	18:42	1,76
Kamis, 08-09-2022	7:05	2,26
	7:33	2,09
	7:47	2
	8:13	1,87
	10:10	1,3
	11:05	1,2
	11:21	1,19
	13:07	1,36
	16:32	2,08
17:43	2,14	
Jumat, 09 - 09 -2022	8:00	220
	8:19	205
	10:09	127
	14:21	157
	14:51	174
	16:12	217
	17:20	235
	18:57	225
Sabtu, 10 - 09 -2022	7:55	250
	9:44	156
	10:35	122
	10:42	117
	11:15	100
	12:37	95
	16:34	233
	18:05	264
Minggu, 11 - 09 -2022	7:55	269
	9:38	182
	11:54	86
	16:36	227
	18:39	279
Senin, 12 - 09 -2022	7:29	295
	9:46	200
	12:46	85
	14:25	110
	16:29	213
	17:51	271,5

Lampiran 4 Dokumentasi

a) Pengambilan sampel air dengan menggunakan *water sampling*



b) Pengukuran di lapangan menggunakan *Conductivity Temperature Depth (CTD)*



(a) Mengatur pengukuran menggunakan CTD (b) Pengukuran suhu dan salinitas

c) Pengukuran di lapangan menggunakan *Horiba Water Quality Monitor*



(a) Pengukuran menggunakan Horiba



(b) Hasil Pengukuran Horiba

d) Pengukuran di lapangan menggunakan *Horiba Water Quality Monitor*



(a) (b) Pengukuran menggunakan Drifter

e) Pemasangan *tide gauge* di stasiun 1 untuk mengukur pasang surut air laut.



(a) Alat *tide gauge*



(b) pemasangan pemberat pada *tide gauge*

Lampiran 5 Pengoperasian Model ROMS

Model ROMS dijalankan dengan menggunakan system operasi LINUX Ubuntu versi 20.4.6

1. Membuat direktori COAWST pada direktori home/aisyh

```

Select aisyh@DESKTOP-KVLM18M: ~
aisyh@DESKTOP-KVLM18M:~$ mkdir COAWST
aisyh@DESKTOP-KVLM18M:~$ ls
COAWST
aisyh@DESKTOP-KVLM18M:~$

```

2. Copy file program utama ROMS kedalam direktori COAWST.

```

aisyh@DESKTOP-KVLM18M: ~/COAWST
aisyh@DESKTOP-KVLM18M:~$ cd ..
aisyh@DESKTOP-KVLM18M:/home$ ls
aisyh
aisyh@DESKTOP-KVLM18M:/home$ cd aisyh/
aisyh@DESKTOP-KVLM18M:~$ ls
COAWST project
aisyh@DESKTOP-KVLM18M:~$ cd COAWST/
aisyh@DESKTOP-KVLM18M:~/COAWST$ ls
COAWST_User_Manual.doc  GENPARAM.TBL  Master  RRTM_DATA  Tools  WPS  makefile
Compilers               InWave       Projects RRTM_DATA_DBL  URBPARAM.TBL  WRF  makefile.old
Data                   LANDUSE.TBL  REFDFIF  SOILPARAM.TBL  User  WW3  run_coawst
ESM                    Lib          ROMS     SWAN           VEGPARAM.TBL  coawst.bash
aisyh@DESKTOP-KVLM18M:~/COAWST$

```

3. Membuat direktori project, dan selanjutnya membuat direktori BONTANG dalam di rektori project.

```

aisyh@DESKTOP-KVLM18M: ~
aisyh@DESKTOP-KVLM18M:~$ mkdir project
aisyh@DESKTOP-KVLM18M:~$ ls
COAWST project
aisyh@DESKTOP-KVLM18M:~$

```

4. Copy file kedalam direktori BONTANG.

```

aisyh@DESKTOP-KVLM18M: ~/project/BONTANG
aisyh@DESKTOP-KVLM18M:~/project/BONTANG$ ls
Build                badakLNG_tides121.nc  coawst.bash  merged_coawst_bdy.nc
badakLNG_res30m_roms_grid_v3.nc  bontang_roms.h       coawstM      merged_coawst_clm.nc
badakLNG_river.nc    bontang_roms2020_rst.nc  coawst_ini.nc  ocean_sandy.in
aisyh@DESKTOP-KVLM18M:~/project/BONTANG$

```

5. Buka file **.h* (contoh: *bontang_roms.h*), dimana file tersebut untuk mengaktifkan atau define yang ingin digunakan contoh: *#define ROMS_MODEL* ketika tidak ingin digunakan dengan mengubah *define* menjadi *undef*.

```

12  **
13  ** Options for Rip_current.
14  ** Application flag:  BONTANGLNG_ROMS
15  ** Input scripts:    bontanglng_roms.h
16  **/
17
18  # define ROMS_MODEL
19
20  /* Physics + numerics */
21  # define UV_ADV
22  # define UV_COR
23
24  # define UV_VIS2
25  # define UV_QDRAG
26  # define UV_SMAGORINSKY
27
28  # define TS_DIF2
29  # undef TS_MPDATA
30  # define TS_U3HADVECTION
31  # define TS_C4VADVECTION
32  # define TS_SMAGORINSKY
33
34  # define K_C4ADVECTION
35  # define RADIATION_2D
36
37  # define MIX_S_UV
38  # define MIX_GEO_TS
39  # undef MIX_ISO_TS
40  # undef MIX_GEO_UV
41
42  # define DJ_GRADPS
43  # define SALINITY
44  # define SOLVE3D
45  # define SPLINES_VDIFF
46  # define SPLINES_VVISC
47  # define NONLIN_EOS
48
49  # undef WTYPE_GRID
50
51  /* Grid and Initial */
52  # define MASKING
53  # define CURVGRID
54
55  /* Atmosphere Forcing */

```

6. Buka file **.in* (contoh: *ocean_sandy.in*), dimana file tersebut digunakan untuk melakukan setting model, memasukan input yang digunakan, serta output yang dihasilkan.

```

88
89  GridsInLayer = 1 1
90
91  ! Grid dimension parameters. See notes below in the Glossary for how to set
92  ! these parameters correctly.
93
94      Lm == 450      ! Number of I-direction INTERIOR RHO-points
95      Mm == 390      ! Number of J-direction INTERIOR RHO-points
96      N == 5        ! Number of vertical levels
97      ND == 0       ! Number of wave directional bins
98
99      Nbed = 1      ! Number of sediment bed layers
100
101      NAT = 2      ! Number of active tracers (usually, 2)
102      NPT = 0      ! Number of inactive passive tracers
103      NCS = 1      ! Number of cohesive (mud) sediment tracers
104      NNS = 1      ! Number of non-cohesive (sand) sediment tracers
105
106  ! Domain decomposition parameters for serial, distributed-memory or
107  ! shared-memory configurations used to determine tile horizontal range
108  ! indices (Istr,Iend) and (Jstr,Jend), [1:Ngrids].
109
110      NtileI == 2      ! I-direction partition
111      NtileJ == 2      ! J-direction partition
112
113  ! Set lateral boundary conditions keyword. Notice that a value is expected
114  ! for each boundary segment per nested grid for each state variable.
115  !
116  ! Each tracer variable requires [1:4,1:NAT+NPT,Ngrids] values. Otherwise,
117  ! [1:4,1:Ngrids] values are expected for other variables. The boundary
118  ! order is: 1=west, 2=south, 3=east, and 4=north. That is, anticlockwise
119  ! starting at the western boundary.
120  !
121  ! The keyword is case insensitive and usually has three characters. However,
122  ! it is possible to have compound keywords, if applicable. For example, the
123  ! keyword "RadNud" implies radiation boundary condition with nudging. This

```

12:50:13: This is Geany 1.38.
12:50:14: File C:\Users\Aisyah Putri\Dropbox\2022\MIKE\ROMS_model\project\bontang\ocean_sandy.in opened (1).

Status

line: 1 / 2969 col: 0 sel: 0 INS TAB mode: LF encoding: UTF-8 filetype: None scope: unknown

7. *Compile* dengan menggunakan perintah *./coawst.bash* pada direktori BONTANG seperti berikut:

```
/home/aisyh/project/BONTANG$ ./coawst.bash
```

*proses compile sukses apabila terdapat file oceanM ketika proses *compile* selesai.

8. Kemudian model di-*running* dengan menggunakan perintah

```
/home/aisyh/project/BONTANG$ mpirun -np 4 ./coawstM ocean_sandy.in
```

(catatan: dimana 4 merupakan jumlah *prosesor* yang ingin digunakan, *coawstM* akan didapatkan ketika telah *running coawst.bash*, dan *ocean_sandy.in* merupakan *file setting model*)