

C.I.P.S.

MODELE MATHEMATIQUE DE LA  
POLLUTION EN MER DU NORD.

TECHNICAL REPORT  
1974/04 METEO 01.

This paper not to be cited without prior reference to the author.

RELEVÉ DES DONNÉES MÉTÉOROLOGIQUES ET DE NAVIGATION  
(Croisière avril-mai 1974)

F.N. - Z.M.

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- Pour les courants, il s'agit de valeurs lues sur cartes (direction en ° et vitesse en noeud).
- Pour le vent, il s'agit de valeurs observées ( direction en ° et vitesse en échelle Beaufort).
- La température de la mer est prise à la surface.

Station	Date	H.	Position	Marée	Courant Dir. Vit.	Vent Dir. Vit.	Prof. m.	Couleur Eau	Temp. Mer	Temp.de l'air Sec Humide	Pression
Point 7	17.04.74	15.00	51°28'25"N 02°51'08"E	Zeb. 5h. aft	268	0.6	19.0	-	8.0	10.0 8.0	1026.0
Point 9	"	19.00	51°28'15"N 02°15'00"E	Ost. 4h. bef	234	1.3	39.0	-	8.0	8.0 7.0	1027.5
"	"	20.00	"	" 3h."	229	1.2	40.0	-	8.0	8.0 7.0	1027.5
Point 20	18.04.74	00.01	51°56'00"N 02°40'00"E	Dover 4h. aft.	027	1.3	38.0	-	8.0	7.0 6.5	1027.0
"	"	01.00	52°06'00"N 02°45'00"E	" 5h.	015	1.3	37.0	-	8.0	7.0 6.5	1027.0
"	"	02.00	52°13'36"N 02°51'12"E	" 6h.	011	0.7	39.0	-	7.0	6.5 6.0	1027.0
"	"	03.00	"	Dover 6h. bef.	010	0.5	40.0	-	7.0	6.0 6.0	1027.5
"	"	04.00	"	" 5h.	194	0.4	41.0	-	7.0	6.0 6.0	1027.5
"	"	05.00	"	" 4h.	195	1.3	40.0	-	7.0	6.5 6.0	1027.5
"	"	06.00	"	" 3h.	198	1.8	40.0	-	7.5	6.5 6.5	1027.0
Point 19	"	09.00	03°09'10"N 52°13'30"E	Dover 1h. aft.	056	0.3	36.0	-	8.0	8.0 7.0	1027.0
"	"	10.00	"	" 2h.	047	0.7	35.0	-	8.0	9.5 6.5	1027.0
Point 18	"	12.00	03°28'10"N 52°13'02"E	" 4h.	041	0.8	29.0	-	8.0	9.5 7.5	1027.5
Point 17	"	15.00	"	Dover 5h. bef.	219	0.5	29.0	-	8.0	9.5 6.5	1027.0
Point 16	"	18.00	04°04'30"E 52°12'35"N	" 2h.	212	0.9	23.0	-	9.0	9.5 6.5	1026.0
Point 4	19.04.74	06.00	51°05'12"N 01°38'42"E	Dover 3h. bef.	220	2.8	37.0	-	8.5	7.0 6.0	1027.0
Point 3	"	09.00	51°05'24"N 01°36'11"E	Dover HW	059	1.1	34.0	-	-	9.5 8.0	1028.5

Station	Date	H.	Position	Marée	Courant Dir. Vit.	Vent Dir. Vit.	Prof. m.	Couleur Eau	Temp. Mer	Temp. de l'air Sec Humide	Pression
Point 2	19.04.74	12.00	51°05'14"N 02°15'22"E	Oost. HW	075	40/2	27.0	-	9.0	13.0 10.0	1028.5
Point 1	"	14.00	51°01'50"N 02°32'00"E	Duinkerke 3h. aft.	039	350/3	08.0	-	9.0	13.0 11.0	1028.5
Point 5	22.04.74	17.00	51°28'40"N 03°27'30"E	Oost. 4h. aft.	281	015/3-4	08.0	-	9.0	11.0 9.0	1026.0
Point 11	"	23.00	51°50'54"N P3°47'00"E	Dover HW	237	030/4	11.0	-	9.0	7.0 6.0	1026.0
	23.04.74	00.00	"	"	156	025/4	12.0	-	9.0	7.0 6.5	1026.5
	"	01.00	"	"	064	-	12.5	-	9.0	7.0 6.5	1026.5
	"	02.00	"	Dover	063	010/3	12.5	-	7.5	4.5 6.0	1026.0
	"	03.00	"	"	058	020/3	12.5	-	7.5	4.2 8.0	1026.0
	"	04.00	"	Dover 5h.	053	350/2	12.5	-	8.0	7.0 6.0	1025.0
	"	05.00	"	" 6ft	043	350/2	12.5	-	8.0	7.0 5.5	1025.0
	"	06.00	"	" 5h.	264	310/2	11.0	-	8.5	8.5 5.5	1025.0
Point 12	"	09.00	03°28'03"N 51°50'50"E	" 2h.	216	320/4-5	26.0	-	8.5	8.0 7.0	1026.0
Point 13	"	11.00	51°50'08"N 03°09'04"E	" 1h.	200	335/4	30.0	-	8.5	10.0 8.0	1026.0
	"	12.00	"	Dover HW	201	335/5	31.0	-	8.5	10.0 8.0	1026.0
	25.04.74	11.00	51°28'25"N 02°51'08"E	Zeb. 4h. bef.	217	015/4	25.0	-	9.0	9.0 7.5	1017.0
	"	12.00	"	" 3h."	185	000/4	24.0	-	9.2	9.5 7.5	1016.5
Point 8	"	15.00	"	Zeb. HW	052	015/4-5	35.0	-	9.0	9.5 7.5	1015.0
	"	19.00	51°57'00"N 01°57'00"E	Dover 6h. bef.	slack	000/5	43.0	-	8.5	7.5 6.0	1014.0
	"	20.00	"	" 5h.	219	025/5	43.0	-	8.0	7.0 6.0	1014.0

Station	Date	H.	Position	Marée	Courant Dir. Vit.	Vent Dir. Vit.	Prof. m.	Couleur Eau	Temp. Mer	Temp.de l'air Sec Humide	Pression
Point 1	28.04.74	14.00	51°06'30"N 02°06'00"E	Duinkerke 4h.bef.	208 0.8	335/5	07.0	-	9.5	10.0 9.0	1008.0
Point 52	29.04.74	17.00	51°05'20"N 02°06'00"E	Calais 1h. aft.	072 1.0	335/4	33.0	-	9.5	10.5 9.0	1007.0
Point 53	"	20.00	51°05'03"N 01°48'00"E	Dover 5h. aft.	040 0.5	360/2	31.0	-	8.5	9.5 8.5	1008.0
	"	21.00	"	" 6h.	220 0.4	355/2	30.0	-	8.5	8.5 8.0	1008.0
Point 54	30.04.74	06.00	51°28'20"N 03°18'40"E	Zeb.2h.bef	107 1.2	310/5	06.0	-	8.0	8.0 7.8	1003.0
Point 55	"	09.00	51°28'30"N 03°00'15"E	Zeb.1h.aft	047 1.1	290/5	23.0	-	8.5	8.0 7.5	1003.0
Point 57	"	10.00	"	" 2h. "	037 1.0	285/5	23.0	-	8.5	8.0 7.6	1004.0
	"	13.00	51°24'00"N 02°28'20"E	Ost.6h.aft	231 0.9	275/3	-	-	8.5	11.0 10.5	1003.0
Point 9	"	15.00	51°28'24"N 02°25'00"E	Ost.5h.bef	233 2.3	260/2	36.0	-	9.5	12.0 10.5	1005.0
"	"	16.00	"	" 4h. "	232 2.5	263/2	38.0	-	9.5	12.5 10.5	1004.5
Point 58	"	17.00	51°28'22"N 02°06'00"E	Calais 3h. bef.	217 0.9	215/2	43.0	-	9.5	12.0 10.0	1003.0
	"	18.00	"	" 2H.	207 0.8	200/3-4	44.0	-	9.5	11.0 9.5	1004.0
Point 20	01.05.74	01.00	52°13'36"N 02°52'12"E	Dover 5h. bef.	194 0.2	220/2	41.0	-	8.5	9.5 8.5	1003.5
"	"	02.00	"	" 4h.	195 0.8	270/5	40.0	-	8.5	9.0 8.0	1003.5
"	"	03.00	"	" 3h.	298 1.8	280/5	41.0	-	8.0	8.5 7.5	1003.5
"	"	04.00	"	" 2h.	301 1.8	270/5	42.0	-	8.0	8.5 7.5	1003.5
Point 65	"	11.00	52°10'40"N 03°35'30"E	Dover 4h. aft.	034 0.7	240/2	23.0	-	9.0	13.0 11.0	1005.0

Station	Date	H.	Position	Marée	Courant Dir. Vit.	Vent Dir. Vit.	Prof. m.	Couleur Eau	Temp. Mer	Temp. de l'air Sec Humide	Pression
Point 64	01.05.74	14.00	52°13'36"N 03°12'56"E	Dover 5h. bef.	208	240/4	22.0	-	9.5	12.5	1003.5
	"	15.00	"	" 4h.	224	240/3-4	22.0	-	9.5	12.5	1005.0
Point 16	"	16.00	52°13'24"N 04°05'55"E	" 3h.	211	230/4	21.0	-	9.0	11.5	1005.0
	"	17.00	"	" 2h.	214	230/3-4	22.0	-	9.0	11.0	1005.0
Point 63	"	19.00	52°13'25"N 04°15'18"E	Dover HW	212	210/4	17.0	-	9.0	11.0	1005.5
	"	20.00	"	Dover 1h. aft.	198	225/4	17.0	-	9.0	10.0	1006.0
Point 21	02.05.74	00.00	52°36'40"N 04°24'36"E	Dover 5h. aft.	024	210/4	18.0	-	8.5	9.5	1006.0
	"	01.00	"	" 6h.	023	215/3-4	18.0	-	8.5	9.0	1005.0
	"	02.00	"	" 6h. bef.	023	210/4	18.0	-	8.5	8.5	1005.0
	"	03.00	"	" 5h.	022	225/4	18.0	-	9.0	10.5	1005.0
	"	04.00	"	" 4h.	188	215/4	18.0	-	9.0	10.5	1005.0
	"	05.00	"	" 3h.	183	225/4	18.0	-	9.0	11.0	1005.0
	"	06.00	"	" 2h.	195	230/4	17.0	-	8.5	8.0	1005.0
Point 22	"	09.00	53°35'24"N 04°30'05"E	Dover 1h. aft.	214	230/3-4	26.0	-	9.0	10.5	1006.0
Point 23	"	12.00	52°36'15"N 03°00'47"E	Dover 4h. aft.	023	260/3	30.0	-	8.5	9.5	1006.0
Point 24	"	15.00	52°36'05"N 03°28'00"E	Dover 4h. bef.	214	190	35.0	-	9.0	-	1007.0
Point 25	"	18.00	52°36'30"N 03°09'10"E	Dover 2h. bef.	194	180/4	33.0	-	8.5	11.0	1004.5

Station	Date	H.	Position	Marée	Courant Dir. Vit.	Vent Dir. Vit.	Prof. m.	Couleur Eau	Temp. Mer	Temp.de l'air Sec Humide	Pression
Point 15	03.05.74	01.00	51°50'50"N 02°33'00"E	Dover 5h. aft.	121	120/4-5	42.0	-	8.5	9.5 7.5	1004.6
"	"	02.00	"	" 6h.	357	120/4-5	42.0	-	8.5	9.5 7.5	1004.3
"	"	03.00	"	" 6h. bef.	337	110/5	42.0	-	9.0	8.5 7.0	1003.0
"	"	04.00	"	" 5h.	224	085/5	38.0	-	9.0	8.0 7.0	1002.5
"	"	05.00	"	" 4h.	209	120/4-5	41.0	-	9.0	8.0 7.0	1002.5
"	"	06.00	"	" 3h.	209	120/4	43.0	-	9.0	9.0 7.5	1002.0
Point 14	"	09.00	51°50'50"N 02°50'12"E	Dover 1h. aft.	091	075/4-5	34.0	-	9.0	10.2 8.2	1002.0
"	"	10.00	"	" 2h.	041	090/4-5	34.0	-	9.0	10.0 8.0	1002.0
Point 1	06.05.74	14.00	51°28'04"N 03°00'15"E	Ost. 1h. aft.	057	350/5-6	10.0	-	9.0	10.3 7.5	1021.0
Point 55	07.05.74	12.00	"	Zeb. 2h. bef.	135	000/5	20.0	-	1.3	10.0 7.5	1023.0
"	"	13.00	"	" 1h."	080	-					
Point 56	07.05.74	16.00	51°28'25"N 02°42'10"E	Zeb. 2h. aft.	037	010/4	30.0	-	9.0	10.0 7.5	1023.5
Point 9	"	19.00	52°28'25"N 02°15'00"E	Oost. 5h. aft.	281	355/3	37.0	-	9.5	8.0 6.5	1024.5
"	"	20.00	"	" 6h."	251	355/3	37.0	-	9.5	8.0 6.5	1023.5
Point 72	08.05.74	05.00	52°36'40"N 03°18'30"E	Dover 5h. aft.	015	230/1-2	37.0	-	9.0	7.0 6.0	1022.0
"	"	06.00	"	" 6h.	015	250/1	37.0	-	9.0	7.0 6.0	1022.5
"	"	07.00	"	Dover 5h. bef.	214	245/1	37.0	-	9.0	7.5 6.5	1023.0

Station	Date	H.	Position	Marée	Courant Dir.	Vent Dir.	Vit.	Prof. m.	Couleur Eau	Temp. Mer	Temp. de l'air Sec	Humide	Pression
Point 24	08.05.74	09.00	52°36'05"N 03°37'05"E	Dover 3h. bef.	139	250/1	0.2	31.0	-	9.0	10.0	7.5	1022.5
Point 70	"	12.00	52°36'05"N 03°56'04"E	Dover H.W.	204	200/1	0.6	27.0	-	9.0	11.5	8.5	1023.0
Point 68	"	18.00	52°36'30"N 04°33'29"E	Dover 6h. aft.	023	240/1	0.8	16.0	-	9.5	14.0	11.0	1021.0
Point 16	"	23.00	52°13'04"N 04°05'56"E	Dover 1h. bef.	202	145/2	0.8	21.0	-	9.0	9.0	7.5	1021.0
"	"	00.00	"	" HW	204	160/2	0.6	21.0	-	9.0	9.0	7.5	1021.0
"	"	01.00	"	" 1h. aft.	214	120/2	0.3	21.0	-	9.0	9.5	7.5	1021.0
Point 16	09.05.74	02.00	"	" 2h.	044	160/2-3	0.7	21.0	-	9.0	8.0	7.0	1020.5
"	"	03.00	"	" 3h.	035	150/2-3	1.5	21.0	-	9.0	8.0	7.0	1020.5
"	"	04.00	"	" 4h.	029	150/3	1.3	21.0	-	9.0	8.0	7.0	1020.5
"	"	05.00	"	" 5h.	025	160/3	0.6	22.0	-	9.5	9.5	8.0	1019.5
"	"	06.00	"	" 6h.	020	165/3	0.5	22.0	-	9.5	9.5	7.5	1019.0
Point 66	"	10.00	52°13'08"N 03°04'06"E	Dover 2h. bef.	212	150/3	0.9	33.0	-	9.5	11.0	9.0	1018.0
"	"	11.00	"	" 1h.	211	150/3	0.7	33.0	-	9.5	11.5	9.0	1017.5
Point 67	"	13.00	52°13'35"N 03°00'25"E	Dover HW	201	140/3	0.4	37.0	-	9.5	14.0	11.5	1017.5
"	"	14.00	"	Dover 1h. aft.	030	135/3	0.5	37.0	-	9.5	14.0	12.0	1016.5
Point 20	"	16.00	52°13'36"N 02°51'18"E	Dover 3h. aft.	027	115/3	1.2	41.0	-	9.5	13.5	11.5	1014.0
Point 61	"	20.00	51°51'00"N 03°00'04"E	Dover 4h. bef.	233	100/3	0.3	35.0	-	9.5	11.0	8.5	1011.0
"	"	21.00	"	" 3h.	214	110/3	0.9	35.0	-	8.5	11.0	8.5	1010.9