

C.I.P.S.

MODELE MATHEMATIQUE DE LA  
POLLUTION EN MER DU NORD.

TECHNICAL REPORT

1973/06 : METFO 01.

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

RELEVÉ DES DONNÉES MÉTÉOROLOGIQUES  
ET DE NAVIGATION (Croisière 1.09.73-12.10.73)

F.N. - Z.M.

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| Station | Date     | H.   | Position                 | Marée                   | Courant Dir. | Courant Vit. | Vent Dir. | Vent Vit. | Prof. m.        | Couleur Eau | Temp. Mer | Temp. de l'air Humide | Pression |
|---------|----------|------|--------------------------|-------------------------|--------------|--------------|-----------|-----------|-----------------|-------------|-----------|-----------------------|----------|
| 4       | 10.09.73 | 1800 | 51°05'05"N<br>01°39'00"E | 6h.bef.HW<br>Dover      | 220          | 1.7          | 15/040    | 36        | donkergroen     | 17.3        | 17.6      | 14.1                  | 1023.9   |
| "       | "        | 1900 | "                        | 5h. "                   | 220          | 2.8          | 14/045    | 36        | "               | 17.6        | 17.6      | 14.0                  | 1024.0   |
| "       | "        | 2000 | "                        | 4h. "                   | 220          | 3.5          | 12/050    | 37        | -               | 17.0        | 16.0      | 13.0                  | 1024.8   |
| "       | "        | 2100 | "                        | bef.HWDover             | 220          |              | 12/050    | 38        | -               | 14.5        | 15.5      | 13.0                  |          |
| 10      | 11.09.73 | 0200 | 51°29'10"N<br>01°58'00"E | 3h.after<br>HW Dover    | 033          | 1.7          | 09/050    | 45        | -               | 17.5        | 16.0      | 12.5                  | 1026.1   |
| "       | "        | 0300 | "                        | 4h. "                   | 036          | 1.4          | 08/040    | 45        | -               | 17.4        | 15.6      | 11.7                  | 1026.3   |
| 5       | 24.09.73 | 1400 | 51°28'04"N<br>03°28'01"E | 1h30.aft.<br>HW         | 320          | 1.4          | 06/330    | 07        | vertclair beige | 16.2        | 16.5      | 13.2                  | 1016.3   |
| "       | "        | 1600 | 51°28'21"N<br>03°18'50"E | 3h30. "                 | 330          | 1.6          | 01/000    | 05        | "               | 16.5        | 14.0      | 12.0                  | 1016.8   |
| 6       | "        | 1800 | 51°28'25"N<br>03°09'25"E | 5h30. "                 | 230          | 0.5          | 01/340    | 11        | "               | 16.5        | 14.5      | 12.0                  | 1017.0   |
| "       | "        | 1900 | "                        | 6h.bef.HW               | 130          | 0.8          | 05/255    | 11        | "               | 16.4        | 14.3      | 11.3                  | 1017.6   |
| "       | "        | 2000 | "                        | 5h. "                   | 165          | 1.1          | 08/295    | 11        | -               | 16.0        | 14.6      | 11.4                  | 1017.6   |
| 1347    | 25.09.73 | 0700 | 51°34'00"N<br>02°55'00"E | 5h.bef.HW               | 229          | 1.7          | 08/310    | 24        | gris vert       | 16.1        | 15.4      | 11.1                  | 1018.6   |
| "       | "        | 0800 | "                        | 4h. "                   | 216          | 1.7          | 07/310    | 28        | "               | 17.4        | 16.0      | 12.6                  | 1018.9   |
| 1343    | 25.09.73 | 1100 | 51°34'00"N<br>03°14'10"E | 1h.bef.HW               | 110          | 1.3          | 280/11    | 23        | gris vert       | 17.1        | 17.8      | 14.9                  | 1019.8   |
| 1341    | "        | 1300 | 51°34'00"N<br>03°23'24"E | NHW Flushing            | 070          | 1.3          | 300/11    | 10.5      | "               | 16.6        | 18.0      | 15.0                  | 1019.8   |
| 1450    | "        | 1500 | 51°42'24"N<br>03°28'08"E | 2h.after<br>HW Flushing | 034          | 1.4          | 300/12    | 12        | "               | 16.5        | 17.0      | 14.0                  | 1020.0   |
| 1452    | "        | 1600 | 51°42'25"N<br>03°18'41"E | 3h.after<br>HW Flushing | 024          | 0.9          | 300/10    | 32        | "               | 16.5        | 16.0      | 14.0                  | 1020.0   |

| Station | Date     | H.   | Position                 | Marée                     | Courant Dir. | Vit. | Vent Dir. | Vit. | Prof. m. | Couleur Eau | Temp. Mer | Temp. de l'air Sec | Humide | Pression |
|---------|----------|------|--------------------------|---------------------------|--------------|------|-----------|------|----------|-------------|-----------|--------------------|--------|----------|
| 1454    | 25.09.73 | 1800 | 51°42'04"N<br>03°09'02"E | 5h. aft. HW               | 249          | 0.4  | 325/10    |      | 26       | gris vert   | 17.0      | 15.7               | 13.6   | 1020.8   |
| "       | "        | 1900 | "                        | 6h. "                     | 227          | 0.9  | 310/6     |      | 23       | "           | 17.0      | 15.2               | 13.2   | 1021.0   |
| "       | "        | 2000 | "                        | 6h. bef. HW<br>flushing   | 229          | 1.1  | 320/4     |      | 23.5     | "           | 16.9      | 16.3               | 12.8   | 1021.6   |
| 1456    | 26.09.73 | 0100 | 51°42'04"N<br>03°00'02"E | 2h. aft. HW               | 043          | 1.3  | 310/4     |      | 35       | "           | 15.0      | 14.9               | 12.9   | 1021.2   |
| "       | "        | 0200 | "                        | 3h. "                     | 042          | 1.6  | 310/4     |      | 33       | "           | 15.0      | 14.9               | 12.9   | 1021.2   |
| "       | "        | 0300 | "                        | 4h. "                     | 035          | 1.5v | 270/6     |      | 32       | "           | 17.3      | 14.0               | 13.0   | 1022.1   |
| "       | "        | 0400 | "                        | 5h. "                     | 026          | 1.0  | 240/3     |      | 32       | "           | 17.2      | 14.0               | 12.8   | 1022.0   |
| "       | "        | 0500 | "                        | 6h. "                     | 002          | 0.1  | 240/6     |      | 31.5     | "           | 17.0      | 15.6               | 11.7   | 1022.0   |
| "       | "        | 0600 | "                        | 6h. bef. HW               | 319          | 0.3  | 240/3     |      | 30       | "           | 17.0      | 14.6               | 12.0   | 1021.9   |
| "       | "        | 0700 | "                        | 5h. "                     | 291          | 0.5  | 190/4     |      | 30       | "           | 16.6      | 15.6               | 12.3   | 1023.1   |
| 13      | "        | 1200 | 51°50'30"N<br>03°09'18"E | 1h. after<br>HW Dover     | 091          | 0.1  | 200/12    |      | 29       | -           | 17.3      | 15.5               | 13.0   | 1021.3   |
| 60      | "        | 1300 | 51°50'09"N<br>03°18'08"E | 2h. "                     | 041          | 0.7  | 200/12    |      | 27       | -           | 13.3      | 15.7               | 13.7   | 1021.2   |
| 12      | "        | 1500 | 51°51'00"N<br>03°29'00"E | 4h. "                     | 035          | 1.5  | 205/14    |      | 29       | -           | -         | 16.1               | 14.1   | 1020.6   |
| 59      | "        | 1600 | 51°51'00"N<br>03°37'08"E | 5h. "                     | 058          | 1.9  | 205/14    |      | 17       | gris vert   | 17.0      | 16.1               | 14.0   | 1020.0   |
| 11      | "        | 1800 | 51°50'51"N<br>03°47'06"E | 3h. after<br>Hook of Hol  | 031          | 0.5  | 180/10    |      | 11       | "           | 16.6      | 16.5               | 13.5   | 1020.0   |
| "       | "        | 1900 | "                        | 4h. "                     | 264          | 0.2  | 210/10    |      | 11       | "           | 15.6      | 16.0               | 14.5   | 1020.0   |
| "       | "        | 2000 | "                        | 5h. "                     | 245          | 1.3  | 210/10    |      | 11       | "           | 15.6      | 16.0               | 14.5   | 1020.0   |
| 1689    | 27.09.73 | 0300 | 52°02'03"N<br>04°03'09"E | HW Hook of<br>Holland     | 049          | 1.4  | 190/13    |      | 13       | olive vert  | 16.5      | 14.2               | 13.2   | 1017.6   |
| "       | "        | 0100 | "                        | 1h. after<br>HW Hook. Hol | 050          | 1.2  | 280/7     |      | 13.5     | "           | 16.5      | 14.2               | 12.9   | 1017.3   |

| Station | Date     | H.   | Position                 | Marée                    | Courant<br>Dir. Vit. | Vent<br>Dir. Vit. | Prof.<br>m. | Couleur<br>Eau | Temp.<br>Mer | Temp.de l'air<br>Sec Humide | Pression |
|---------|----------|------|--------------------------|--------------------------|----------------------|-------------------|-------------|----------------|--------------|-----------------------------|----------|
| 2689    | 27.09.73 | 0500 | 52°02'03"N<br>04°05'09"E | 2h.afterHW<br>Hook.ofHol | 050 0.9              | 330/7             | 12.5        | olive vert     | 15.5         | 14.5 12.5                   | 1016.8   |
| "       | "        | 0600 | "                        | 3h.                      | 050 0.5              | 340/6             | 12.         | "              | 14.0         | 13.0 12.0                   | 1016.8   |
| "       | "        | 0700 | "                        | 4h.                      | 060 0.1              | 326/8             |             | "              | 14.5         | 13.0 13.0                   | 1016.8   |
| 1691    | "        | 0900 | 52°02'03"N<br>03°56'05"E | 6h.                      | 238 1.0              | 320/18            | 23          | "              | 16.9         | 15.2 12.9                   | 1018.1   |
| 1097    | 02.10.73 | 0900 | 51°15'10"N<br>02°53'00"E | 5h.afterHW<br>Oostende   | 248 1.0              | 090/12            | 7           | gris vert      | 14.2         | 12.9 11.0                   | 1028.6   |
| 1099    | "        | 1100 | 51°15'30"N<br>02°44'10"E | 5h.bef.HW<br>Oostende    | 231 1.2              | 060/18            | 9           | "              | 15.1         | 14.6 11.5                   | 1028.6   |
| 2       | "        | 1700 | 51°04'00"N<br>02°15'16"E | 1h.aft.HW                | 072 1.0              | 040/20            | 25          | vert gris      | 15.2         | 14.6 13.1                   | 1027.6   |
| 1049    | 04.10.73 | 1100 | 51°28'32"N<br>03°00'22"E | 4h.aft.HW                | 250 0.8              | 060/4             | 19          | "              | 16.1         | 18.2 16.3                   | 1022.6   |
| 7       | "        | 1300 | 51°28'31"N<br>02°51'10"E | 5h.bef.HW<br>Oostende    | 229 1.2              | 060/6             | 24.5        | "              | 16.4         | 16.7 14.7                   | 1021.9   |
| 8       | "        | 1500 | 51°28'20"N<br>02°33'00"E | 3h.bef.HW<br>Oostende    | 220 1.0              | 050/6             | 23          | vert           | 16.3         | 16.3 14.7                   | 1020.8   |
| 70      | 05.10.73 | 0900 | 52°36'30"N<br>03°56'28"E | 3h.aft.HW<br>Dover       | 022 1.0              | 170/8             | 27          | vert           | 15.6         | 15.3 14.1                   | 1020.7   |
| 22      | "        | 1100 | 52°36'30"N<br>04°05'56"E | 5h.aft.HW<br>Dover       | 024 1.3              | 130/8             | 26.5        | vert bleu      | 15.6         | 15.9 14.0                   | 1021.0   |
| 21      | "        | 1400 | 52°36'30"N<br>04°24'30"E | h.bef.HW<br>Dover        | slack                | 130/2             | 15          | "              | 15.5         | 16.5 15.0                   | 1020.8   |
| 1389    | "        | 1800 | 52°25'00"N<br>04°24'04"E | HW Dover                 | 195 1.3              | 130/4             | 15          | vert gris      | 16.1         | 18.5 16.1                   | 1020.4   |
| 1989    | "        | 1900 | 52°25'03"N<br>04°24'25"E | 1h.aft.HW<br>Dover       | 195 0.8              | 130/8             | 15.5        | "              | 15.6         | 16.7 15.6                   | 1020.6   |

| Station | Date     | H.   | Position                 | Marée                  | Courant<br>Dir. Vit. | Vent<br>Dir. Vit. | Prof.<br>m. | Couleur<br>Eau | Temp.<br>Mer | Temp.de l'air<br>Sec Humide | Pression |
|---------|----------|------|--------------------------|------------------------|----------------------|-------------------|-------------|----------------|--------------|-----------------------------|----------|
| 1989    | 05.10.73 | 2000 | 52°25'03"N<br>04°24'25"E | 2h.aft.HW<br>Dover     | 015 0.1              | 150/8             | 16          | vert gris      | 15.4         | 17.5 15.5                   | 1020.6   |
| 1693    | 06.10.73 | 0700 | 52°02'01"N<br>03°47'00"E | HW Dover               | 250 0.4              | 120/2             | 19          | "              | 15.7         | 14.6 16.1                   | 1020.9   |
| 18      | 08.10.73 | 1900 | 52°13'35"N<br>03°28'07"E | 3h.bef.HW              | 212 0.9              | 230/12            | 33          | -              | 16.1         | 14.0 12.1                   | 1021.5   |
| "       | "        | 2000 | "                        | 2h. "                  | 212 0.9              | 235/13            | 33          | -              | 16.0         | 14.4 12.2                   | 1021.1   |
| "       | "        | 2100 | "                        | 1h. "                  | 211 0.7              | 220/15            | 33          | gris           | 16.0         | 14.3 12.0                   | 1021.3   |
| "       | "        | 2200 | "                        | HW Dover               | 205 0.3              | 210/15            | 33          | "              | 16.0         | 14.2 12.0                   | 1021.8   |
| "       | "        | 2300 | "                        | 1h.aft.HW<br>Dover     | 056 0.4              | 220/18            | 32          | vert           | 15.8         | 15.4 13.6                   | 1019.8   |
| "       | "        | 2400 | "                        | 2h. "                  | 047 1.0              | 230/19            | 32          | "              | 15.7         | 15.7 13.7                   | 1019.2   |
| 1995    | 11.10.73 | 1500 | 52°25'03"N<br>03°56'28"E | 4h.aft.HW<br>Dover     | 023 1.4              | 040/15            | 26          | vert           | 15.1         | 12.1 8.0                    | 1016.6   |
| 3       | 12.10.73 | 0700 | 51°05'08"N<br>01°57'01"E | 6h.bef.HW<br>Duinkerke | 243 1.8              | 130/12            | 29.5        | vert           | 14.5         | 10.5 8.5                    | 1020.8   |
| 52      | "        | 0900 | 51°05'20"N<br>02°06'00"E | 4h. "                  | 223 1.7              | 130/13            | 28          | gris vert      | 15.1         | 9.9 7.6                     | 1021.8   |