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Sea Surface Temperature of the Coastal Zones of France

Heat Capacity Mapping Mission - HCMM
Investigation n° 15
Progress report n° 2.

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SUMMARY

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1 - INTRODUCTION

The objectives of this investigation are to map the various thermal gradients in the coastal zones of France with regard to natural phenomena and man-made thermal effluents: to study and map the mesoscale thermal features in the English Channel, the Bay of Biscay and the North Western Mediterranean Sea; to study and map the evolution of the thermal gradients generated by the main estuaries of the French coastal zones; and to contribute to the modelling of diurnal heating of the sea surface and its influence on the oceanic surface layers.

The investigation is conducted by the followings:
Dr P.Y. DESCHAMPS (Principal investigator) and Dr M. CREPON, Mr J.M. MONGET and Professor F. VERGER (Co-Investigators).
Attachment A give related organizations and addresses.

This progress report was established after reporting by Professor F. VERGER. We are sorry that contributions by Dr M. CREPON and J.M. MONGET did not arrive in time to be incorporated in the present report. Consequently, some aspects and results of the investigation in the Mediterranean Sea are missing and will be only included in the final report.
2 - TECHNIQUES

Techniques have been extensively discussed in progress report 1 and there has been no basic change in these techniques since that report.

Nevertheless, Fig. 3 and Fig. 4 of progress report 1 are erroneous and should be replaced by Fig. 1 and 2 of the present progress report. These figures are concerned with examples of the temperature variance density as a function of the wavenumber and of the structure function as function of distance, for HCMR data as compared to VHRR data.
3 - ACCOMPLISHMENTS

3.1.1. - Routine observations

Periodical sea surface temperature measurements have been performed by the "Rèseau National d'Observation de la Qualité du Milieu Marin", in the coastal and estuaries zones of the French coasts. As an example, six stations are performed every week in the Loire estuary (see Fig. 3). Some of these measurements are simultaneous with some HCMM data (09/15/78 ; 05/28/79 ; 06/18/79).

The "Etablissement d'Etudes et de Recherches Météorologiques" at the "Centre Océanologique de Bretagne", Brest, performs a statistic treatment of the sea surface temperature field from the routine observations of the merchant ships in the Bay of Biscay, the Celtic Sea and the Western English Channel. As a result of this analysis, a thermal map (SST-GASC) is produced three times a month with a temperature accuracy of about 0.5 °C.

Lighthouseboats also routinely observe sea surface temperature at some locations in the Eastern British Channel and the Southern North Sea. They report these observations through the meteorological network.

3.1.2. - Specific cruises

Apart from the routine collection of observations, several oceanographic experiments have been conducted by various French organizations more or less in relation with the investigations objectives:

- LION 78 (June to September 1978) is a summer experiment in the Gulf of Lions, Mediterranean Sea, for the study of coastal upwellings.
. PHYGAS 78 (8 November 1978 to 2 December 1978) in the Bay of Biscay. Fig. 4 gives a map of hydrological stations for the first part of this cruise.

. A drifting buoy experiment in the Bay of Biscay, starting February 1979, for the study of ocean dynamics.

. PROLIFIC (5 to 24 March 1979), an experiment in the Ligurian Sea, to support remotely sensed data on sea surface temperature and ocean color.

. Several cruises in the British Channel to support remotely sensed data of sea surface temperature and ocean color:
  - 19 to 29 June 1979, in the "Golfe de Saint Malo"
  - 20 to 28 July 1979, in the "Golfe de Saint Malo"
  - 4 to 14 September 1979, in the "Golfe de Saint Malo"
  - SATIR 1, 17 to 27 July 1979, in the Celtic Sea
  - SATIR 2, 3 to 22 September 1979, in the Celtic Sea.

3.2. - Comparison of HCMR versus VHRR

The quality of HCMR has been evaluated from a few digital data products. The spatial and thermal radiometric resolutions correspond to the nominal performances, respectively 500 m and 0.3 K. In some occasions, the thermal radiometric resolution has been found to be considerably affected by the existence of a periodic noise in the data, at a length of several km. HCMR derived temperatures are in accordance with routine observations of sea surface temperature within the accuracy of the atmospheric correction and of the routine observations.

Comparison of the HCMR with VHRR performances shows a definite improvement of the quality of the restituted thermal field. Examples have been given in the progress report 1. Fig. 5 to 7 give
a further example of a comparison between HCMR (10/28/78 at 13.18 TU) and VHRR (10/28/78 at 08.44 TU) data obtained over the Gironde estuary.

3.3. - Studies of the mesoscale oceanic thermal field

By that time we have received a rather complete data set of photographic products for the period May 1978-December 1978. About all the areas of the investigation are covered by these data at least several times at different periods centered around the 1978 summer, but there is a lack of data during the winter period. The corresponding digital data have been requested and a few of them have been received.

Most of the evaluation has been done up to that time on photographic products. Several interesting thermal features have been exhibited when the photographic products have a contrast suitable to detect the weak temperature changes of the oceanic field. Upwellings along the coast of the Gulf of Lions, tidal fronts in the Western English Channel and Southern North Sea, appearance of colder waters along the continental shelf break in the Celtic Sea and Bay of Biscay, are frequently shown. Nevertheless, further work on digital data is necessary to fully assess the impact of HCMM data for the study of such features.

3.4. - Studies of estuarine thermal gradients

The same previous remark may be done for this objective. The received photographic products cover a variety of different situations of the estuarine regime, except for the winter season. A few digital data have been received.
3.5. - Diurnal heating

A rather large number of cloud free day-night HCMM data within 12 hours have been identified from the photographic products. Up to that time, we have restricted our request orders of day-night temperature difference data to a very small amount (2 scenes) because we do not have really good sea truth data to support this objective. We are waiting for the requested day-night temperature differences to make a first evaluation of the usefulness of this type of data over oceanic areas.
4 - SIGNIFICANT RESULTS

4.1 - Mesoscale studies

Three different types of structures have been successfully investigated when using the HCMM photographic products:

. cooler water at the shelf break bordering the Celtic Sea and the shelf of the Bay of Biscay,

. tidal fronts in the western part of the English Channel and the southern part of the North Sea,

. cooling of the shelf water in the Bay of Biscay during the fall months.

The two first processes are schematically illustrated in Fig. 8, after PINGREE (1). Fig. 9 and 10 give two examples of these two processes on the 15 September and 28 October, 1978. (HCMM image ID: A-A0142-02200-3 and A-A0185-13180-2, A-A0185-13200-2).

Also showing on Fig. 10 is the cooling of the shelf water in the Bay of Biscay which produces several successive fronts from the coastline associated with considerable eddy structures.

Tidal fronts on the shelf seas are produced by tidal mixing of the water column. They occur when the depth of water is small enough, and when the turbulence induced by the tidal currents, is large enough to destroy the seasonal thermocline. Consequently the tidal fronts separate the unstratified condition with cold surface water from the stratified condition with warmer surface water (GRALL et al. (2), PINGREE and GRIFFITHS (3)).

Thermal fronts have been identified from the photographic products and plotted on Fig. 11 to 14, for the period May to October 1978. The Ushant tidal front, a tidal front surrounding the western part of Britain has been systematically located during this period. The southern and western boundaries of the front are rather stable while the northern boundary between Britain and Cornwall seems more variable. Starting at the end of August other thermal fronts developed, south of Britain on the shelf of the Bay of Biscay, and seem to be related to the cooling of the shelf waters during the fall months. Another tidal front was detected and located from the HCM/M data in the southern part of the North Sea between England and the Netherlands: the position of this tidal front corresponds also to the one given by PINGREE and GRIFFITHS (3), but was not previously clearly detected from the VHRR data.


4.2 - Diurnal heating

Strong diurnal heatings associated with shallow water structures have been identified on several images in the Mediterranean Sea and the North Sea. In some occasions, the sun glitter in the visible channel allows the identification of diurnal heating to be very closely related with calm surface water aeras. Such sun glint mainly occured in the Mediterranean Sea, in june, when the azimuth of the sun is close to 270° at the time of HCMM overflights. Sun glint usually increase in such geometrical conditions where the observation angle is close enough to the specular reflexion conditions. Nevertheless, a sudden decrease of sun glint is observed for the calm aeras because it is very unlikely that the observations angles of the sea would meet exactly the angular conditions for the specular reflexion on a flat surface.

More detailed evaluation of this diurnal heating features are still going to be evaluated on the digital products.
5 - PUBLICATIONS


Problems concerning the data geometry, the periodic noise on the data, and the thermal contrast of photographic products have been identified in the previous report and remain important by the time of the present report.
7 - IMAGE QUALITY AND DELIVERY

7.1 - Image quality

Image quality is usually good except for the periods where the periodic noise is too high. In some cases, for the goal of oceanic investigations, the interpretation of photographic products would be helped by a more appropriate enhancement of the grey scale of the infrared channel in the range of the sea surface temperature.

7.2 - Test site coverage

A list of the received data, photographic and digital products, is given in the attachment B.

A rather complete data set of photographic products has been received for the period may to december 1978. Test site coverage is thus excellent for all parts of the test sites of the investigation, except during the winter period. Day-Night cloudfree coverage within 12 hours occurred also several times during the summer period and is now satisfactory.

7.3 - Delivery

Timeliness of photographic products is good. A few percentage of them is too much cloudy, or only land surfaces, or outside the test site areas. The received data set has now been completed, particularly during early months of the investigation.

We start receiving more systematically the digital data requested. The delay of the procedure remains of several months between the time where the request order is sent and the time where the digital data is received by the investigator.
Some HCMM data have now been received from the European distribution network EARTHNET of the European Space Agency ESA. By that time these data include quick-look imageries from January 1979 and a few digital data, geometrically uncorrected.

8 - RECOMMENDATIONS

To enhance the contrast of photographic products in the infrared channel by an appropriate and constant expansion of the grey scale within the typical sea surface temperature range for the specific applications to oceanography.
9 - CONCLUSIONS

The following conclusions may be tentatively established by the time of this report:

. The quality of HCMM radiometer performances ground resolution and temperature resolution shows a definite improvement compared to the previous VHRR/NOAA radiometers for the studies of sea surface temperatures and applications to oceanography.

. HCMM data analysis is showing some oceanic mesoscale features which were previously expected to occur: summer coastal upwellings in the Gulf of Lions, tidal fronts bordering the English Channel, cooler surface waters at the continental shelf break.

. The analysis of the spectral variance density spectra show that the interpretation of the data usually is limited by the HCMM radiometric performances (noise level) at wavenumbers below 5 km in the oceanic aeras; from this analysis it may also be concluded that a decrease of the radiometric noise level down to 0.1 k against an increase of the ground resolution up to 2 km would give a better optimum of the radiometric performances in the oceanic aeras.

. HCMM data appear to be potentially very useful for a detailed analysis of the sea surface temperature field, particularly in the very coastal area with making profit of the HCMM ground resolution of 500 m.
Fig. 1: Comparison of the one dimension (downline) variance density spectra of spatial temperature fluctuations computed from HCMR and VHRR data, over the same location and at about the same time. The example given is for a 64 x 64 km square area (HCMR scene ID: A-A0015-02550-3).
Fig. 2: Comparison of the one dimension (downline) structure function of spatial temperature fluctuations computed from HCMR and VHRR data, over the same location and at about the same time. The example given is for a 64 x 64 km square area (HCMM scene ID: A-A0015-02550-3).
Fig. 3: R.N.O. stations in the Loire Estuary.
Fig. 4: Phygas 78 cruise first part: stations in the Bay of Biscay.
Fig. 5: HCM thermography of the Gironde Estuary (28.10.78, 13.18 T.U.)
Fig. 6 : VHRR/NOAA-5 thermography of the Gironde Estuary (28.10.78, 08.44 TU).
Fig. 7: Sea surface temperature comparison of HCMM and VHRR/NOAA-5 data along the section shown in Figure 6.
Fig. 8: Schematic of the mean temperature structure bordering the Celtic Sea according to PINGREE (1).
Fig. 9: HCMM thermal infrared imagery of the Bay of Biscay and of the Celtic Sea, 15 September 1978, 02.22 TU, HCMM image ID A-A0142-02220-3. Darker tones are cooler surfaces, lands and clouds are black; dark grey corresponds to the cooler waters, between the Britain and the Ushant tidal front, and at the continental shelf break.
Fig. 10: HCM thermal infrared imagery of the Bay of Biscay and of the Celtic Sea, 28 October 1978, 13.18 TU, image ID A-A0185-13180-2 and A-A0185-13200-2. Darker tones are cooler surfaces, lands are white, clouds are black. Dark grey corresponds to the cooler shelf water from Britain to Spain.
Fig. 11: The Ushant tidal front offshore Britain during the period from 21 May to 31 May 1978.
Fig. 12: Same as Figure 11, from 22 June to 29 July 1978.
Fig. 13: Same as Figure 11, from 19 August to 26 September 1978.
Fig. 14: Same as Figure 11, from 28 October to 12 November 1978.
ATTACHMENT A

Permanent addresses and organizations of the investigators

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