



**FAX**

date/date 10 August 2006 ref./réf. EOP/SEP/0001-06/MP-F page/page 1 / 2

from/de Paganini Marc ESA tel./tél. +39 06 94180 563, +44 1372 759784 /CH/GG  
 Chetan Pradhan Logica CMG fax/fax +39 06 94180 552, +44 1372 838070 1222  
 visa/visa *OK* 10/08/06 e-mail/mail marc.paganini@esa.int, Date 10/08/06  
 chetan.pradhan@logica-cmg.com

to/à Caroline Texier SHOM n° fax/dest +33 2 98 22 08 99 urgent/urgent X  
 Gordon J. Taylor UKHO +44 1823 284 077

copy/copie Luc Govaert ESA  
 Olivier Arino  
 Mark Doherty  
 Matthew Stuttard LogicaCMG

Subject/o Termination of the COASTCHART project (ESA project 19486)  
 bjet

Dear Mrs Texier, Dear Mr Taylor,

With the present letter, we would like to inform you that the European Space Agency and LogicaCMG have jointly decided to terminate the COASTCHART contract at the end of phase 1 and will not proceed with the next phase of the project.

You had requested in the technical specifications of the ESA statement of work some stringent requirements on the quality of the COASTCHART products to be achieved, in terms of absolute geometric accuracy (25m RMS error was requested) and in terms of semantic precision of the coastline restitution.

We understand that meeting these requirements is a condition for your participation to the subsequent phases of the project.

The COASTCHART products have been assessed, with your kind support, considering three quality aspects of the product validation:

- the absolute geometric accuracy (dependent upon the precision of the ortho-rectification of the ASAR images from which all subsequent coastline vector products are derived).
- the precision of the vector line restitution (dependent upon the ability of the chosen

**European Space Agency**  
**Agence spatiale européenne**

**ESRIN**  
 Via Galileo Galilei - Casella Postale 64 - 00044  
 Frascati - Italy  
 Tel. (39) 06 941801 - Fax (39) 06 94180 280

COASTCHART contract closure

No	1222
Date	10/08/06
Urgent	X
Attrib.	TELED
Ch	TELED

**FAX**

date/date 1 August 2006

ref./réf. EOP/SEP/0001-06/MP-F

page/page 2

2

methodology to identify and delineate the coastline vector to the required degree of precision)

- the accuracy of the vector line work attribution (dependent upon the ability of the photo interpreter with documented classification rules to accurately characterise the vector line work).

We confirm that the COASTCHART products produced during phase 1 (prototyping phase) do not meet the above quality requirements. The major deviations observed are the planimetric accuracy (which features some end-to-end RMS error of about 50m with some individual delineation inaccuracy above 100m), the coastline identification (which was insufficient in detecting sandy banks and sub-surface rocks in intertidal zones) and the coastline characterisation (which was insufficient in identifying the type of coastline with the precision required).

The impossibility to meet your requirements is to be understood, to our judgement, as a combination of the insufficient performances of existing C-band SAR sensors and of the limitations of the coastline restitution methodology.

We acknowledge your overall assessment that the COASTCHART products cannot be utilised for producing marine charts since they would not fit the purposes of Safety of Life At Sea (SOLAS).

We also understand that you don't intend to relax your requirements to receive coastline products within a different mapping scale than originally agreed (50m RMS error for use at 1:100,000 to 1:150,000 scales), which could be met with the present C-band SAR performances and available technologies.

As a consequence, we have decided, in total agreement, to terminate the contract at the end of the phase 1. We have produced a final report that summarises the findings of the project and are pleased that you have reviewed its content and agreed that this report be made publicly available on the internet.

We are confident that new radar technologies will soon be available to successfully meet your requirements with the level of confidence you require. We look forward to working with you again in the future when the available technologies would give us the evidence that your cartographic requirements can be fulfilled.

With our Best Regards,

Marc Paganini  
COASTCHART Technical Officer

Chetan Pradhan,  
COASTCHART Project Manager