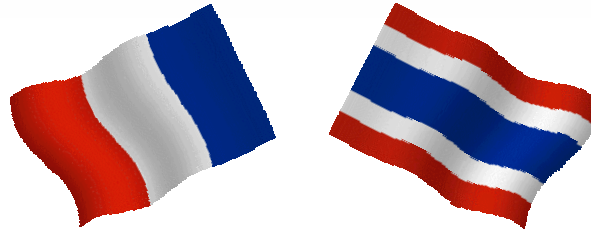




Service hydrographique et océanographique de la marine



# CAPACITY BUILDING: THE FRENCH ANSWER



# SHOM today:

## ■ One vocation

- *Guarantee the quality and availability of information pertinent to describing the physical maritime, coastal and ocean environment and manage its conservation and dissemination in order to meet public requirements, both civilian and military, at the lowest possible cost.*

## ■ Two traditional missions ...

- **Public Service** with a view to assure the safety of navigation in compliance with the international agreements signed by France, namely:

- The United Nations Convention on the Law of the Sea
- The International Convention for the Safety of Life at Sea (SOLAS)

- **Defence Support**

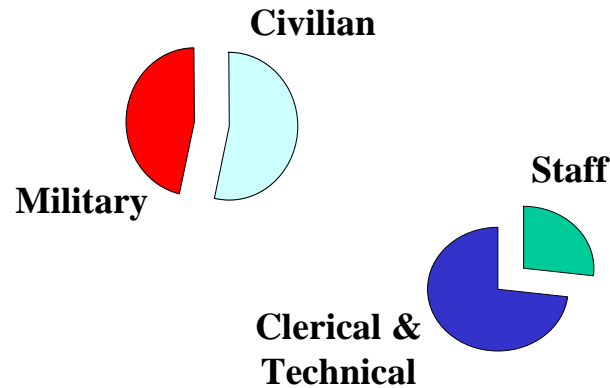
## ■ and one moral duty ...

- **Support friendly Countries (finish the job properly.....)**





# SHOM in brief

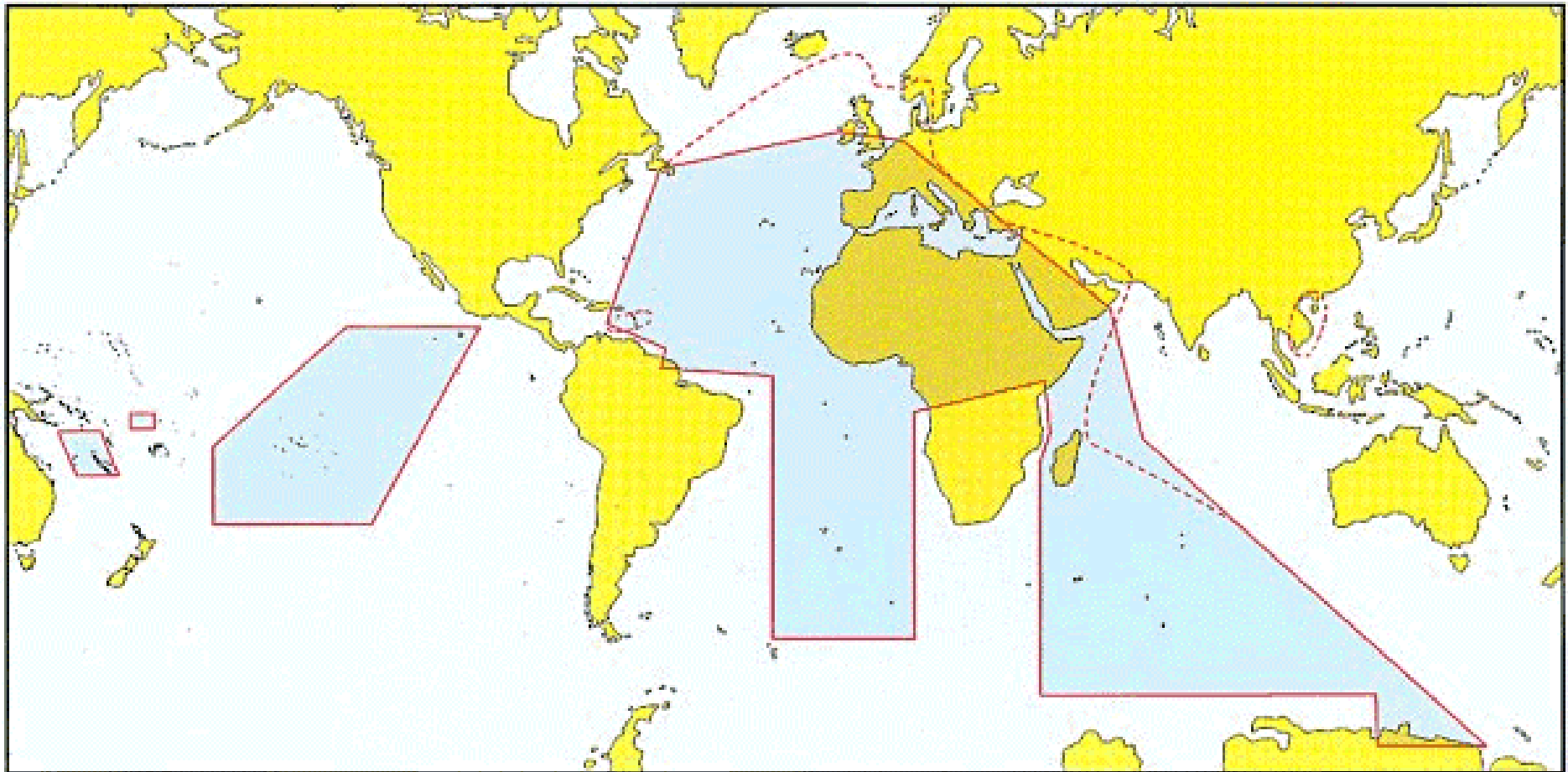


- 1 100 charts (700 original)
- 40% charts concern Foreign Countries
- 33 Maritime Neighbours
- Budget: 50 M€ / year for a 3 M€ annual turnover
- up to 7 M€ / year spent on «foreign » charts
- 5 survey ships
- 550 staff
- ISO 9001 Quality management standard





*Areas of interest : French EEZ (11 million sq. km), areas placed under French responsibility and other areas of historical responsibility (these are in the process of being formalised by the way of **bilateral agreements**)*





# International co-operation: an unfinished adventure

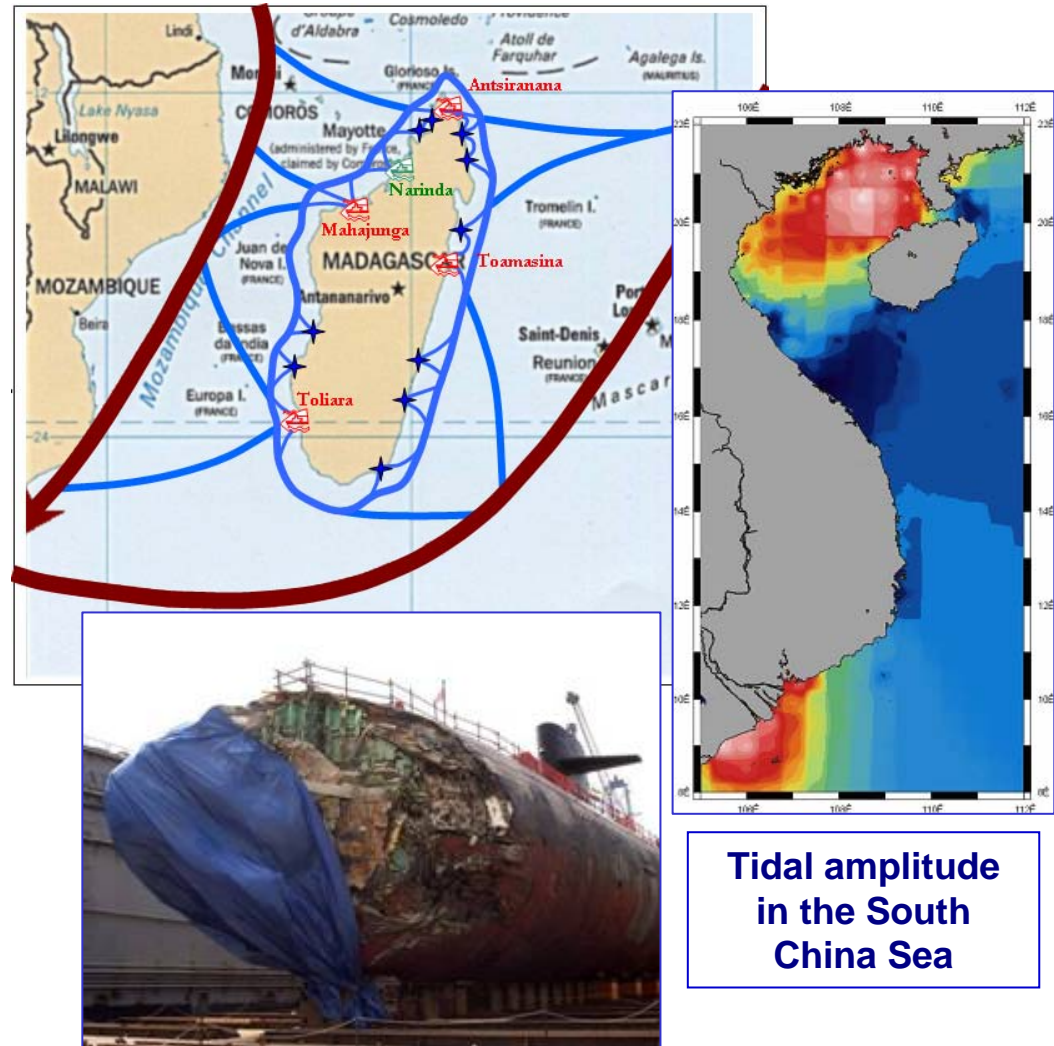
## An ancient tradition ...

- 1921 : creation of the International Hydrographic Bureau



... however, there is still much to be done

- Develop a Pilot scheme to improve our knowledge of the Ocean bottom (GEBCO)
- Create safe maritime highways (heavy traffic areas, waterways for dangerous cargo ships, etc.)
- Contribution to the protection of the environment and risk prevention against major disasters
- Increasing precise positioning (Galiléo) against less precise or even obsolete cartographic geodetic references
- Availability and coverage of official ENC's



Tidal amplitude in the South China Sea



# THE 3 PHASES OF CAPACITY BUILDING

***Phase 1: Collect and disseminate nautical information***

***Phase 2: Develop National Hydrographic Capacity***

***or***

***Learn to challenge contractors***

***⇒ Needs training***

***Phase 3: Produce your own charts & books***

***or***

***Enter bilateral agreement with friendly HO***







## TRAINING À LA FRANÇAISE (1/2)

- FIG/IHO/ICA Level B: Minimum **2 years**  
Prerequisite: Robust scientific background (French course starts 4 years after A Level)
- FIG/IHO/ICA Level B: **18 months**  
Prerequisite: A Level (Maths)

.....and of course

**TUITION IN FRENCH**





# TRAINING À LA FRANÇAISE (2/2)

**NEW TREND: Propose Short Specific Modules in English for qualified operators:**

- *ENC*
- *Space charts (satellite + lidar)*
- *MBES*
- *Delineations*
- *Military support (oceanography, « special » charts...)*
- *Etc.....*

**and try to develop « Harbour assistant » courses in French to supplement our demanding cat A and B regular courses**







# FUNDING ASPECTS

*The French paradox: SHOM is funded but has no resources*

- **Co-operation can either be funded (commercial contract with Navy Proxy such as NAVFCO, similar to UK DESO),**
- **or be fully subsidised (political decision),**
- **or both (political decision + MOU)**

**⇒ In all cases, Diplomatic support is essential**



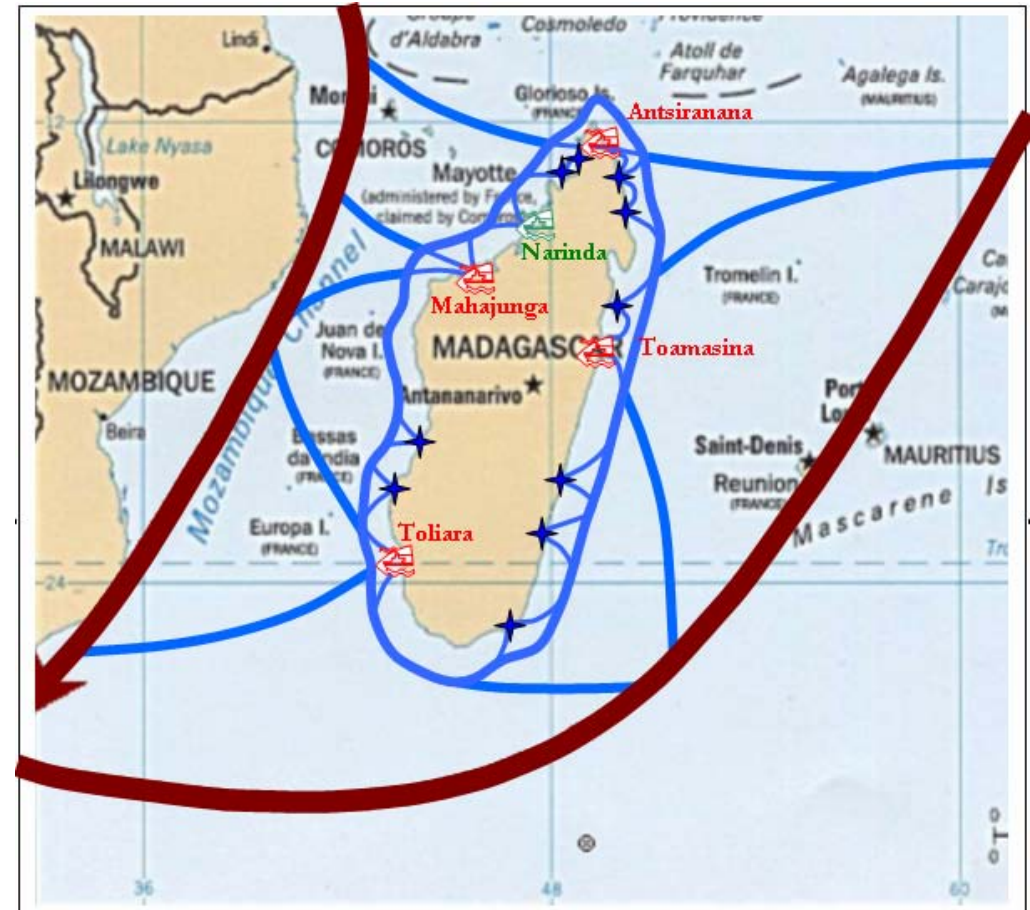




# MADAGASCAR

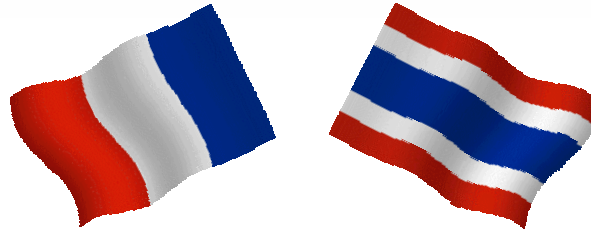
## *What SHOM has in mind*

- Seek backing from IHO and international organisations (IOC...)
- Join a larger INT project (India Ocean Marine Highways?)
- Find international partners (RSA? Norway? Anybody interested... )
- Team up to handle funding issues (French co-operation funds, UE, World Bank, etc.)





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# CAPACITY BUILDING: THE FRENCH ANSWER

*Thank you for your attention*