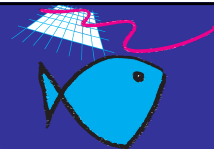


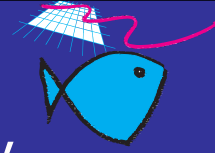
A coordinated approach to managing the fisheries of the GFCM zone

Technology and cooperation for an ecosystem of unique diversity



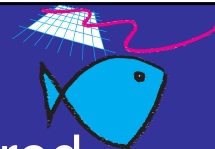
A few observations on the GFCM zone...

- A virtually unique area in its ecology and diversity
 - Home to one of the most sensitive (and threatened) of the world's fisheries (*thunnus thynnus*)
 - Vast range of fisheries, many subject to artisanal exploitation
 - Nearly 30 states of political and cultural diversity in a concentrated geography



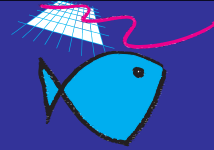
A « high-wire act » for any resource management regime

- Data availability is uneven and access varies from country to country and fishery to fishery
- National zones and international waters are inextricably linked
- Action, or lack of action, in one fishery or geographical area inevitably effects neighbouring fisheries or areas.



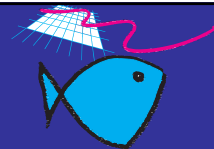
Natural resource with shared responsibility

- Coastal states are collectively and individually responsible for managing the natural resource
- Resource protection and sustainability are objectives
- GFCM recognized as competent authority in the region



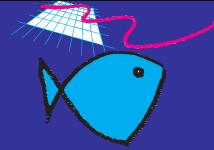
Role of GFCM -- 1

- Harmonize operations with other RFMOs
- Assure compatibility of data formats and protocols
 - Incorporate current practice in Europe, North Africa and Asia (Med and Black Sea)
- Favour established regional parameters



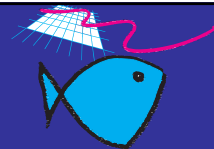
Role of GFCM -- 2

- Not yet envisaged technical choices will be subject to consultation
- Primary objective will be to maintain compatibility
- Communications between the member states and the secretariat should be transparent



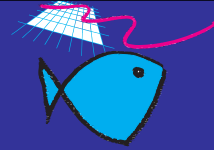
Member states and VMS

- All member states to establish national VMS
 - Recommendation GFCM/33/2009/7
- Systems to be operational by the end of this year
- In event of inability to comply (e.g. geopolitical considerations) earliest possible date will be deadline



GFCM secretariat role in VMS

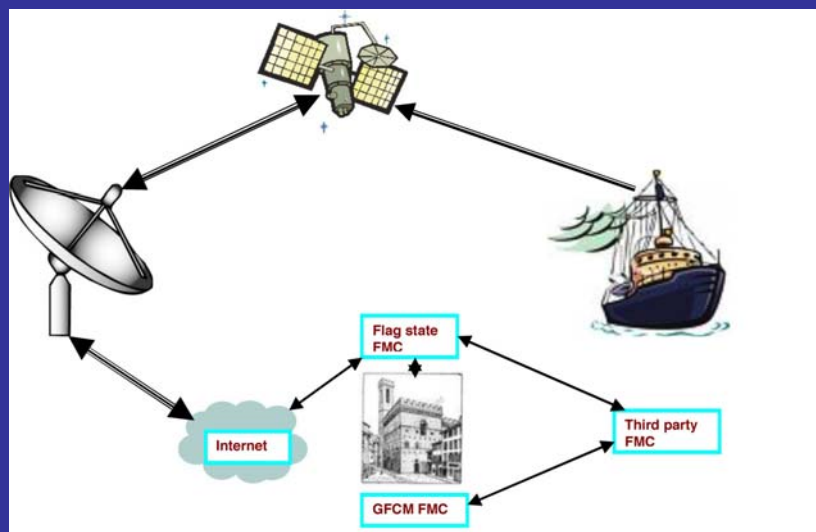
- FMC maintained at secretariat to assure consistent data gathering and sharing
- Central repository of GFCM vessel data
- Provide services to member states, especially in absence of national VMS



VMS reporting protocol

- All vessels report directly to flag state
- Flag state automatically forwards data, in real-time, to GFCM FMC
- Should position fall outside of flag state waters, GFCM forwards data to competent third party
- Protocol does not preclude existing agreements

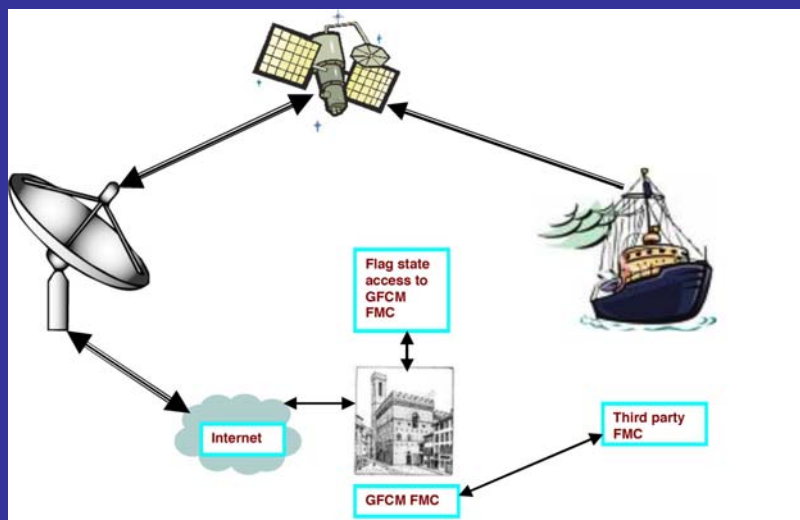
Reporting with flag-state FMC

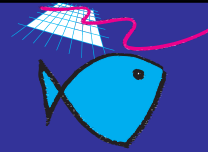


Reporting: absence of flag-state FMC

- Vessel reports to GFCM FMC
- Data is at disposition of flag-state through data connection to GFCM FMC
- GFCM assures distribution of data to any third-countries or other parties which have right to access

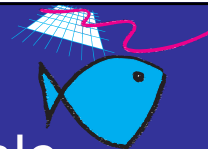
Reporting: no flag-state FMC





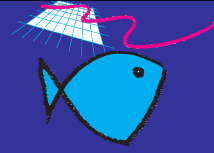
Including small-scale fisheries

- Each member state will determine most suitable approach for artisanal fisheries
 - e.g. data sets, reporting frequency
- Key criteria include:
 - Power supply, geographical coverage, investment and operating costs
- Principle: DON'T OVERDESIGN



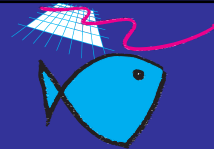
Assumptions on small-scale fisheries

- Real-time tracking of individual assets an improbable scenario
- Reporting requirements generally less stringent than professional fisheries
- Technical challenge for shipboard equipment
- Opportunity for crew security

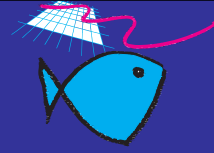


Possible approaches

- VHF or cellular telephone instead of satellite services
- Data transmission frequency as a function of need
 - For less sensitive fisheries, why not report upon return to port
- Data output compatible with standard VMS

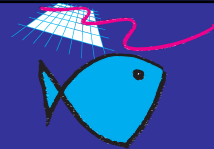


Key consideration will be to balance technical requirements with the limitations of vessel environment



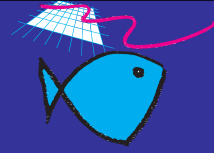
The fight against IUU fishing

- Member states to make VMS data available to their own MCS assets
- Where appropriate, also available to other member states
- GFCM will maintain database of all vessels operating in its zone of competence plus all IUU incidents



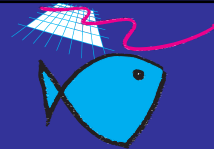
IUU fishing incidents

- Detection of illegal activity by member states by vessels of another flag must be reported
 - To the vessel flag state
 - To the GFCM secretariat



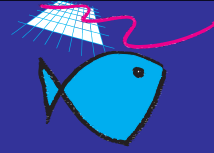
Principles of operation

- Designated officers of each member state will be authorized for direct and unrestricted access to GFCM database
- Other access to be “layered”
- The use of VMS and its related technologies will evolve with the state of the art



Principal objectives:

- provide technology to assure the long-term health and sustainability of the maritime resources of GFCM zone
- to eliminate IUU fishing



Your views are welcome and encouraged...