Comparison of maritime and land emergency management frameworks

Chris Reynolds
Director
IRCG

Irish Coast Guard - Garda Cósta na hÉireann
History of the Coast Guard

- Originally British Coast Guard (HMCG) established in Ireland in 1822 with 117 stations – split between the Kingstown (East) and Limerick (West) sections
- Originally a customs service with full-time armed Coast Guards. Often attacked by smugglers.
- On independence in 1922 transferred to the Board of Trade and was called the Coast Life Saving Service (CLSS)
- Service maintained as a horse drawn ‘breeches buoy’ service till 1980s
- Following name changes to Coast and Cliff Rescue Service (CCRS) and Irish Marine Emergency Service (IMES) it returned to its original name –Coast Guard- two words - (IRCG) in 2000
Roles of the Coast Guard

• Coordinate Search and Rescue (SAR) in the Irish Search and Rescue region, along the coasts and cliffs of Ireland and in support of AGS on major inland lakes.
• Provide Coast Guard services within Ireland’s EEZ:
  – Provide a ship to shore radio and distress listening service
  – Broadcast marine safety information
  – Provide the national Marine Assistance Service and respond to ship casualties and maritime disasters.
  – Provide places of refuge decision making authority during ship casualties
  – Intervene as necessary in marine casualties to prevent or minimise damage to the marine environment by oil and Hazardous and Noxious Substances’ (HNS) from ships and offshore installations and coordinate the at sea response to maritime pollution from ships and offshore installations.
  – Monitor maritime traffic and provide the national AIS system.
  – Offshore Exploration, STS and OPRC Plan Approval
• Provide support to other statutory bodies or agencies.
Principal support roles:

- Incidents requiring marine SAR;
- Ferry and other Shipping Incidents;
- Marine Emergency impacting on-shore;
- Marine emergency impacting offshore such as fire or explosion onboard a ship or rig;
- Marine and Coastal Pollution;
- Environmental Pollution at sea;
- Maritime Incidents involving Hazardous & Noxious Substances (HNS);
- Aircraft accidents; and
- Incident to a critical infrastructure transport hub such as a port.
- Incidents requiring water rescue inland (DJE);
- Nuclear Accidents at sea (DHPLG);
- Tsunami (DCCAE);
OEP Support Roles

- Flooding (DHPLG);
- Severe weather events (DHPLG);
- Explosive ordnance washing up (DJE);
- National security related incidents (DJE);
- Emergencies at airports (DTTAS);
- Railway Accident (DTTAS);
- Major transportation Accident (DTTAS);
- Infectious diseases (DAFM);
- Earthquakes (DHPLG);
- Radioactive contamination (DHPLG); and
- Dam failure (Various departments).
Annual Activity

• Incidents: 3000, 4500 persons assisted, 80 drownings (XX after alert received),
• Taskings - Heli 900 of which 120 HEMS. 1200 tasking of CGU’s, 800 RNLI, 5 Diver. 6000 999 calls.
• Assistance to other authorities – 650; 15 MRT, 170 HSE, 60 UK
• NB - Incident and Local Coordination at sea is an international not national concept.
Main facts

• Total Budget c € 80m
• Staff c 80 FTE (50 in RCC’s & 10 in VST)
• 1000 volunteers (5 – 15 min call out 24/7) in 44 Coast Guard units,
• 3 pollution bases and 5 remote offices
• Main Stores & Engineer Base in Blanchardstown
• 3 x 24/7 RCC/112 centres in Malin, Valentia and NMOC at HQ Dublin
• 4 helicopter bases R115 (Shannon) R116 (Dublin) R117 (Waterford) R118 (Sligo)
Ship to Shore Comms and traffic management
Crosshaven 2011
Crosshaven 2013
Doolin

Irish Coast Guard - Garda Cósta na hÉireann
Irish Coast Guard

Garda Cósta na hÉireann
Coast Guard Units

Irish Coast Guard - Garda Cósta na hÉireann
RNLI
Pollution Response Stockpiles

KILLYBEGS

DUBLIN

CASTLETOWNBERE
Main Stores
Sea booms and Vac units
Maritime MEM

- UN (IMO & ICAO) Conventions
- Hamburg Convention on SAR 1979
- UNCLOS, MARPOL and SOLAS
- Chicago Convention Annex 12
- IAMSAR Manual
- EU Directive – VTMIS
- EU Agencies – TWA on CGF’s
# National Maritime MEM

<table>
<thead>
<tr>
<th>Category</th>
<th>Groups</th>
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</table>
| Policy   | • National SAR Framework 2010/SPA 91  
• MEM Framework (Protocol 7)  
• Annex A OEP Roles and Responsibilities |
| Strategic| • Irish Aeronautical and Maritime Advisory Committee (StratCoord required by IAMSAR) |
| Users    | • Irish Maritime Search and Rescue Committee (Users Forum)  
• National Committee on Mountain and Cave Rescue |
| Safety   | • Marine Safety Working Group |
| Int      | • Irish Sea Working Group  
• Aviation Forum |
SAR/OPS Agreements

- RNLI
- CRBI
- Diver SRM teams
- MCA
- National ambulance service / HSE
- An Garda Síochána
- Defence Forces
- DFB
- Civil Defence
- CIL (Commissioners of Irish Lights)
- RPII
- Revenue
- Irish Aviation Authority (IAA)
- Maritime Local Authority Lifeguards
- Met Éireann
- Port and Local Authorities
- EU/Bonn
National Emergency Framework

Irish Maritime Emergency Management Framework

A Framework for Major Emergency Management
- Lead Govt Dept
- Principal Response Authority
- Primary Emergency Service
- Generic all risks approach

International Norms
- Hamburg Convention
- GMDSS
- IMO and ICAO
- SOLAS
- UNCLOS
- MarPol
- EU Directives

Authority Legislation:
- Search and Rescue Management
- Vessel Traffic Management - VTMIS
- Directives
- Sea Pollution Prevention, Response and Cooperation
- Marine Casualties and Salvage

Multi agency Protocol 7
- Land Based Response to Marine Emergencies
- Presumptive lead and support Roles and generic response
- 20 SLA’s MoU’s

National Plan
- Irish National Search and Rescue Framework
- 20 SLA’s MoU’s
- Committee Structures

Land Based Emergency Management

Marine Based Emergency Management

Irish Coast Guard - Garda Cósta na hÉireann
What are CGF’s

- Institutional Coast Guards – Baltic, Black Sea, Med and Atlantic. Common feature is SAR. EUCGF, NACGF, etc.
- Generic nature of Defence/EUGSS: EUMS – NATO. Need to separate out security from defence
- 11 CGF’s – in 3 pillars of safety, security, environmental – States operational capacity. Surveillance (CISE) is a crosscutting pillars. MS variations. EDA/EEAS variations.
- EU Project funding civ-mil, CISE, EUMSS AP, PESCO, sea basin strategies and troika of TWA of EU CGF Institutions, Copernicus WP, EU Marine Research Agenda (Maritime and civ/mil priority).
- Articulated in EU Council Conclusions, Directives, EEAS and doctrine. Still developing.........
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<th>Coastal State Role/CGF</th>
<th>Maritime Safety incl Vessel Traffic Management</th>
<th>Ship casualty &amp; MAS</th>
<th>Maritime Search and Rescue</th>
<th>Maritime accident &amp; disaster response at sea</th>
<th>Maritime Pollution Protection &amp; Response</th>
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1. May include port notification and arrival requirements
2. MARSEC committee scope is restricted to EU Regulation 725/2004 & Dir 2005/65.
Ireland's Maritime Ops Coordination

**Maritime Security - Garda CommCen/Naval OpCen/MAOC-N/Customs**
- Joint Task Force
- National Maritime Security Committee (International Ship and Port Security) MAOC-N

**Maritime Safety - NMOC/MRSC**
- Irish Maritime Administration (IMA)
- Irish Aeronautical and Maritime Emergency Advisory Committee (IAMEAC)
- Irish Maritime Search & Rescue Committee (IMSARC)

**Pollution Response - NMOC**
- Oil Pollution Response Committee