

MACHC - THE UK RESPONSE CAPABILITIES:

Date Amended: 27 Nov 20

Requirement(s)	Response(s)
Country:	The United Kingdom of Great Britain and Northern Ireland
Contact Name:	<ul style="list-style-type: none"> - RAdm Simon Hardern Royal Navy (Retired), who is the UKHO Head of Partnerships and Engagement for the Americas - In the initial instance, the Contact will confer with the UKHO Incident Management Response Group to ascertain what response and supporting actions are possible and/or necessary
Contact Number:	+44 7930 012324 or +1 202 445-3956
Contact E-Mail:	Simon.Hardern@ukho.gov.uk
Reconnaissance/assessment flights:	<ul style="list-style-type: none"> - Would normally need to be requested through the UK Ministry of Defence, though the relevant UK Embassy (DA and/or Ambassador) might be able to support/expedite such an application. - If the UK has an on-station military maritime asset that is capable of (deploying with and launching) helicopter operations, this is something that could be done (and there is a history of such support being provided, the most recent being in Nov 20).
Assessment using satellite imagery, including satellite-derived bathymetry:	<ul style="list-style-type: none"> - UKHO can provide pre/post event satellite imagery of coastlines, harbours and approaches (subject to the availability of post disaster open data imagery). - Additionally, the UKHO's remote sensing specialists can provide objective Damage Assessment Reports within a port to highlight items such as: visible damage to navigational aids; presence of damaged vessels blocking approaches; visible condition of jetties and piers (private, public, large or small) which could be useful for situational awareness.
Deployable survey teams:	<ul style="list-style-type: none"> - One deployable survey team operated by the RN could possibly be activated under RN command. The team can survey, to process data and to generate rapid bathymetric sheets, to support urgent needs. The deployment of any equipment they have requires the supply of a craft such as inflatable boat. - Depending on the time of year, it might also be that the UKHO has surveying contactors in the region that could possibly be redeployed at short notice to support any requested work, though funding would need to be secured.
Production of interim ENCs:	If emergency surveys take place, the UKHO has capabilities to process the bathymetric data and produce bespoke interim-ENCs or digital raster (so called) 'chartlets'. These products could be used to help reopen a port for the safe delivery of humanitarian aid.
Preparation of situational awareness maps:	The UKHO can create bespoke 'not for navigation' Situation Awareness Products, one example being a Port Assessment. This type of product can incorporate data such as raster charts/ENCs, satellite imagery, 'ground level' imagery, marine geospatial information, textual description of changes within the port, berthing options (depending on craft type) etc (subject to the availability of data, some other additional military products might be available).

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Other:	<ul style="list-style-type: none"> - The UKHO has a HADR (Humanitarian Assistance and Disaster Relief) Team which can be stood up at short notice to respond to requests for support. The Team will assemble all the relevant stakeholders within the UKHO to ascertain what data, products and services could be offered. Capacity to support will depend on availability/releasability of data, UK Government authorisation and the UKHO's relationship with the local charting authority. - During cross-government responses including COBR, the Cabinet Office (Civil Contingencies Secretariat), will also be made aware of request(s) for assistance from other HM Government departments to other countries. - A request by the UK Foreign, Commonwealth and Development Office (ie, Foreign Ministry) for the use of UKHO capabilities requires authorisation from the UKHO Chief Executive sent via the UKHO Head of Government Relations and Secretariat (UKHO-Secretariat@ukho.gov.uk). - Capabilities may not necessarily be readily or immediately available in the event of a crisis, but UKHO departments will make ever endeavour to stand up as quickly as possible - If a RN hydrographic vessel is deployed in the region for conventional surveys (considered unlikely), there would be a possibility of rerouting it to support provision of bathymetric surveys (this would be subject to Navy Command prioritisation, which is likely if within a short transit distance).