



Tacloban, Philippines 2013

An Introduction to MapAction

Leading the way in response to humanitarian disasters

Nigel Press, Chairman of the Trustees

IHO - I RCC11, Genoa

4 June 2019

When disaster strikes -

- Lives are lost
- Livelihoods are destroyed
- People are displaced, at further risk and in great need
- Chaos rules
- Time is of the essence
- Geographical intelligence is crucial
- MapAction help make order out of chaos

Coastal and Maritime zones

- Are they more prone to disasters than inland?
- Definitely for tsunamis, but probably also for cyclone landfall and delta flooding.
- The balance may be worsened by climate change.
- We have a lot of offshore data that could be used for preparedness and mitigation, but the focus remains mainly onshore.
- E.g. analysis of coastlines, bathymetry and offshore faults could catalogue tsunami amplifying gulfs.

Japanese Tsunami

Mar 1





MapAction

- Humanitarian mapping charity that works through skilled GIS volunteers.
- In the immediate aftermath of a disaster our skill and experience is recognised as crucial in helping the UN target and coordinate the delivery of humanitarian aid.
- Since 2002 we have responded on the ground to around 90 emergencies
 - (plus many more remotely).

“Where are the affected areas?”



MYANMAR
Cyclone NARGIS
WHO/WHAT/WHERE
SHELTER
MOST AFFECTED
TOWNSHIPS
23 MAY 2008

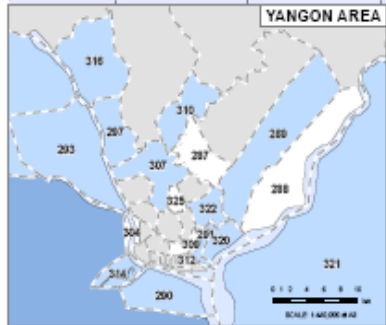
SCALE: 1:1,500,000



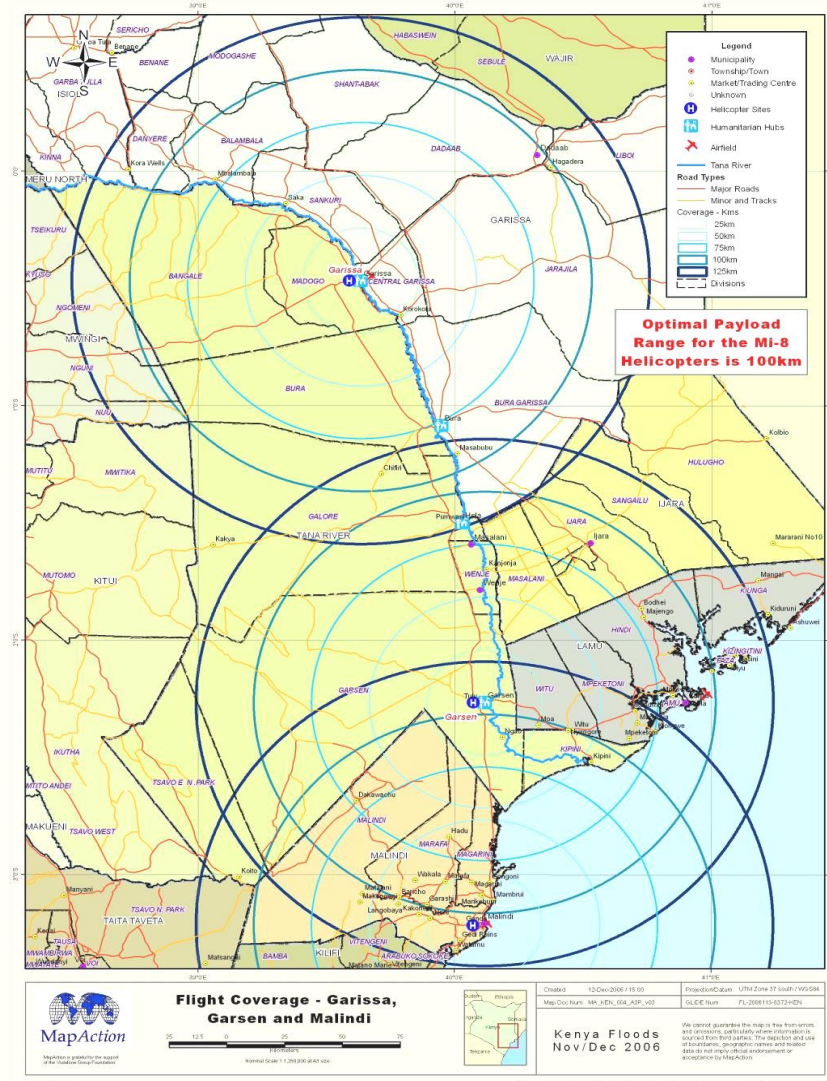
Data in table format by State / Division ordered by MapIndex

Map	Township	P.Code	Organizations	Count
1	Bago	MYR00100	FACT, UNICEF, WV, ACP, WMM, IA, LORC	7
2	Dagun	MYR00100	CBWV, UNICEF, WV, LORC	4
3	Yangon	MYR00100	BTC	1
33	Chittha	MYR00100	W.M. MSH, MHP, M, FACT, UNICEF, UNICEF, AA	4
34	Madaya	MYR00100	W.M. BTC	2
35	Madaya	MYR00100	FACT, UNICEF, WV	3
37	Madaya	MYR00100	UNICEF	1
38	Madaya	MYR00100	CAR, M, MHP, M, BTC, AA	4
39	Madaya	MYR00100	CAR, MHP, M, WV, AA	3
40	Madaya	MYR00100	CB, FACT, UNICEF, WV, MHP, MHP, LORC	7
41	Madaya	MYR00100	CAR	1

Map	Township	P.Code	Organizations	Count
246	Dagun	MYR00100	More	
247	Dagun	MYR00100	More	
248	Dagun	MYR00100	WV	
249	Dagun	MYR00100	AM, UNICEF	
250	Dagun	MYR00100	M	
251	Dagun	MYR00100	MHP, M, WV, RCP	
252	Dagun	MYR00100	M, WMM	
253	Dagun	MYR00100	MHP, M, RCP	
254	Dagun	MYR00100	LORC	
255	Dagun	MYR00100	LORC	
256	Dagun	MYR00100	CAR, MHP, M, MHP, M, RCP, LORC	
257	Dagun	MYR00100	LORC	
258	Dagun	MYR00100	More	
259	Dagun	MYR00100	RCP	
260	Dagun	MYR00100	RCP	
261	Dagun	MYR00100	More	
262	Dagun	MYR00100	AM	
263	Dagun	MYR00100	RCP	
264	Dagun	MYR00100	CAR, MHP, M, RCP	
265	Dagun	MYR00100	WV, LORC	
266	Dagun	MYR00100	RCP	
267	Dagun	MYR00100	M, LORC	



“Where are the access routes?”



“Where are other relief agencies/teams working?”

3W – Who, What, Where



Pakistan WASH Cluster - Who, What, Where

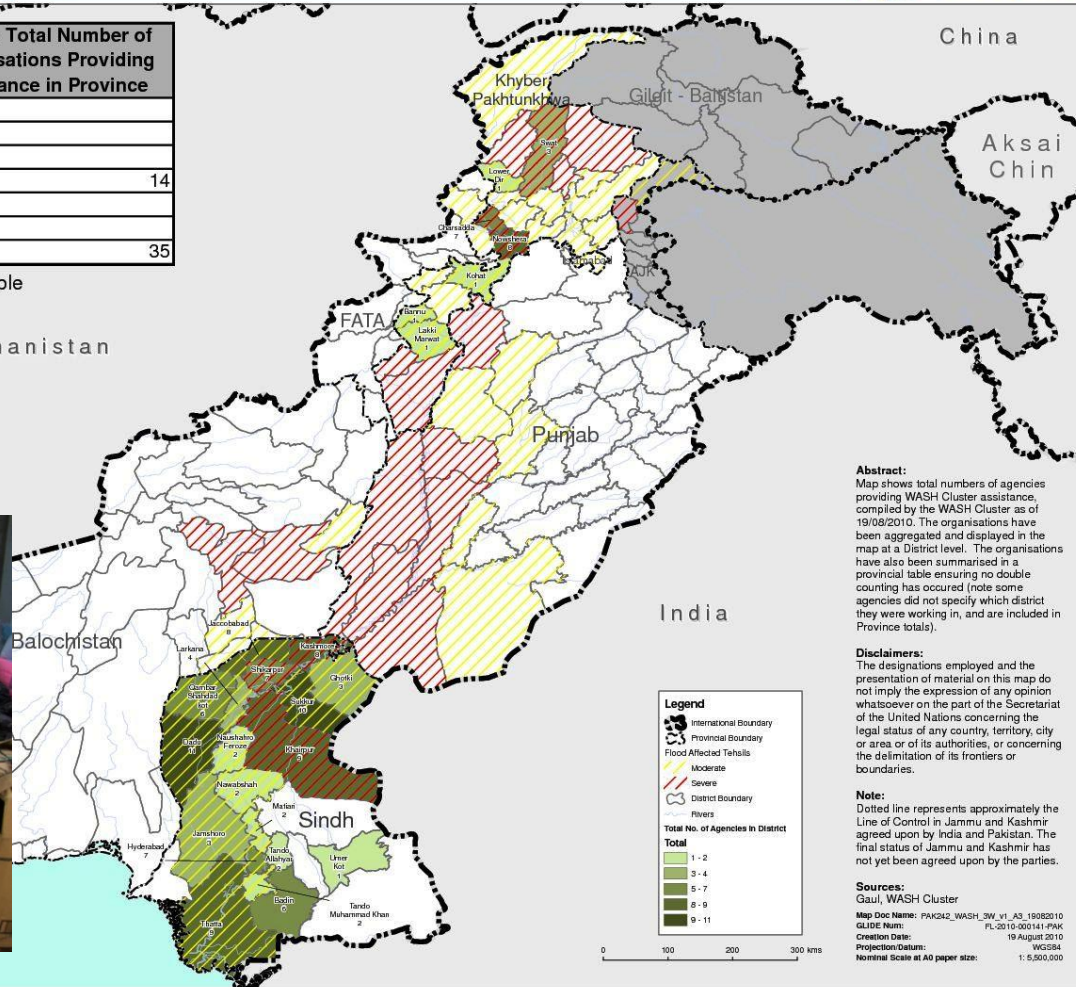


OCHA

Province	PCode	Known Total Number of Organisations Providing Assistance in Province
Balochistan	2272	
FATA	2273	
Gilgit Baltistan	40409	
Khyber Pakhtunkhwa	2275	14
AJ&K	40408	
Punjab	2276	
Sindh	2277	35

Provincial Summary Table

Afghanistan



Abstract:
Map shows total numbers of agencies providing WASH Cluster assistance, compiled by the WASH Cluster as of 19/08/2010. The organisations have been aggregated and displayed in the map at a District level. The organisations have also been summarised in a provincial table ensuring no double counting has occurred (note some agencies did not specify which district they were working in, and are included in Province totals).

Disclaimers:
The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

Note:
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Sources:
Gaul, WASH Cluster
Map Doc Name: PAK242_WASH_3W_v1_A3_19082010
GLIDE Num: FL-2010-000141-PAK
Creation Date: 19 August 2010
Projection Datum: WGS84
Nominal Scale at A0 paper size: 1:5,500,000

Overview

- MapAction is a UK humanitarian relief charity that works through skilled & highly trained volunteers.
- Our work helps prioritise, target and coordinate the delivery of humanitarian aid.
- Since 2002 we have responded to more than 90 disasters or emergencies.
- We help get the right aid to the right place.
- Our results inform the scope and scale of the fundraising.
- We help ensure the aid spend is correctly directed and efficiently used where it matters most.
- We lead the way in the relief effort, from the field; our information is provided free to all users.

Our team – 1000+ years of experience



100 volunteers, 10 staff – Chief executive , heads of operations, logistics, training & fundraising

Training - the strong foundation

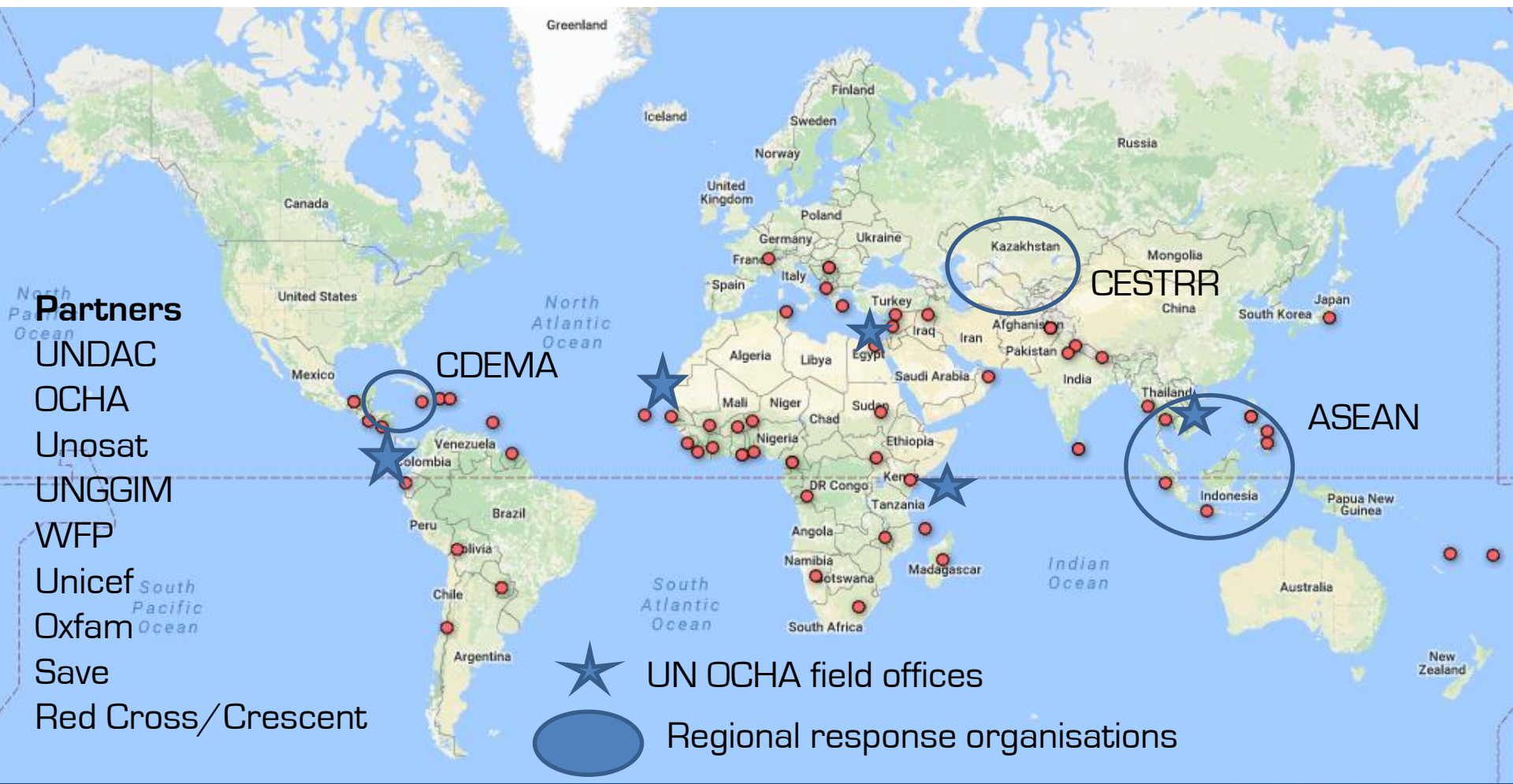
- Monthly training weekends
- Annual simulation exercise
- Participation in other SIMEXs
- **Focus**
- Standard Operating Procedures
- Data analysis & presentation
- GIS, networks, satcomms
- Security, first aid, survival
- Humanitarian situations

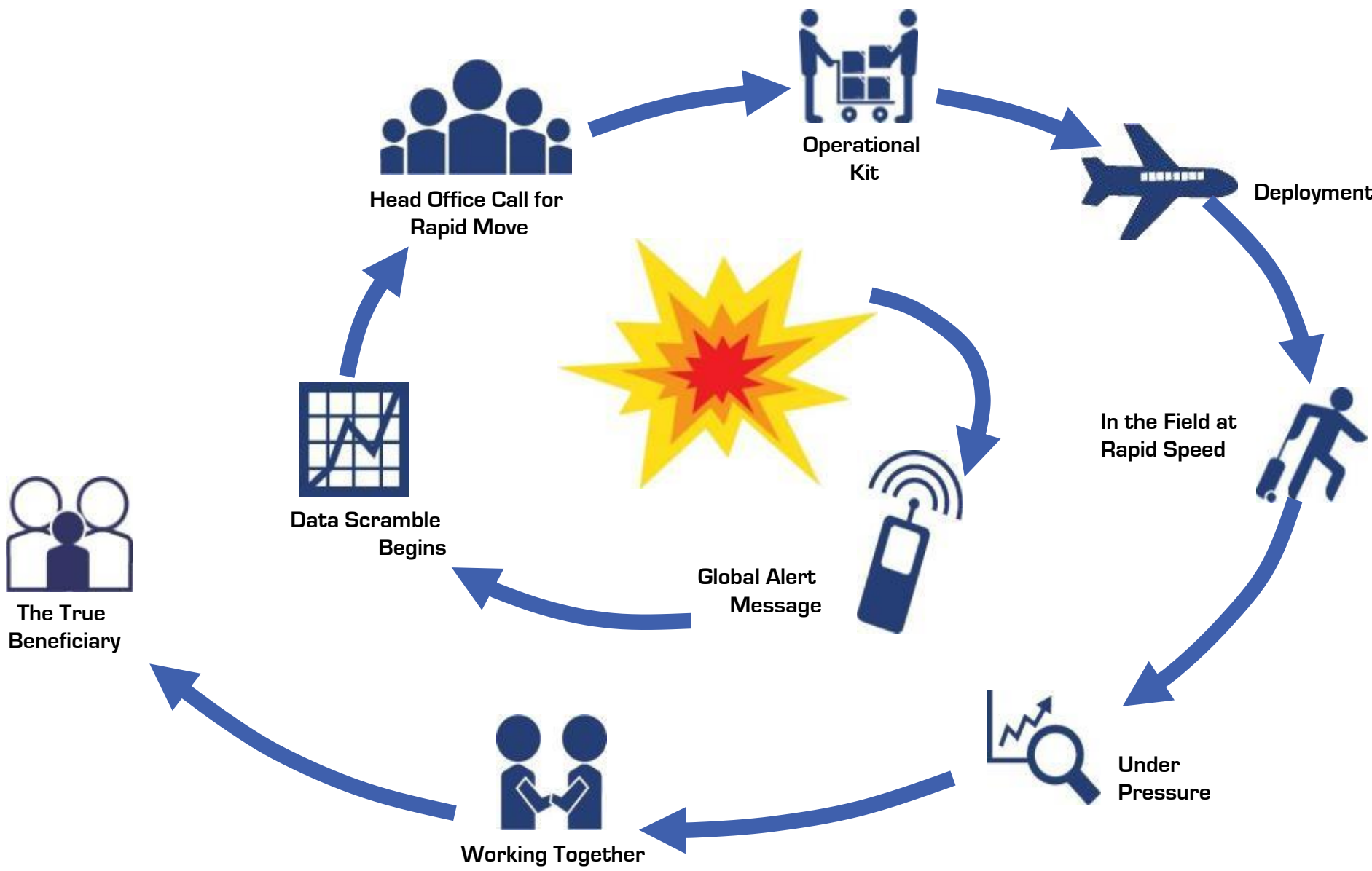


The image is a screenshot of the BBC News website from May 2, 2007. The main headline is "Earthquake strikes Juliandia". The article text states: "A strong earthquake has struck the southern region of Juliandia. Initial reports indicate several villages and towns have been affected. The quake, which measured 7.5 on the Richter scale, occurred at just before 1.30pm local time. It is the most powerful earthquake to hit the region since the 1950s. Reuters news agency reports severe shaking and some collapsed buildings in the capital, Lundstrup. Geologists report that the epicentre was close to the border with East Oswaldien. However, no reports of damage or casualties have yet been received from there. Offers of help An immediate offer of help has been received from President Hagar of Emirana, a Juliandia official said." A blue arrow points to the "Offers of help" section. The website interface includes a navigation bar with "Home", "TV", "Radio", "Talk", "Where I Live", and "A-Z Index". A search bar is in the top right. A sidebar on the left lists regional categories like "Africa", "Americas", "Asia-Pacific", "Europe", "Middle East", "South Asia", and "UK". A "RELATED INTERNET LINKS" section on the right includes "US Geological Service".

Scenario preparation for SIMEX

Where we work; responses and the power of partnerships





Field Team arrive in 24-48 hrs.



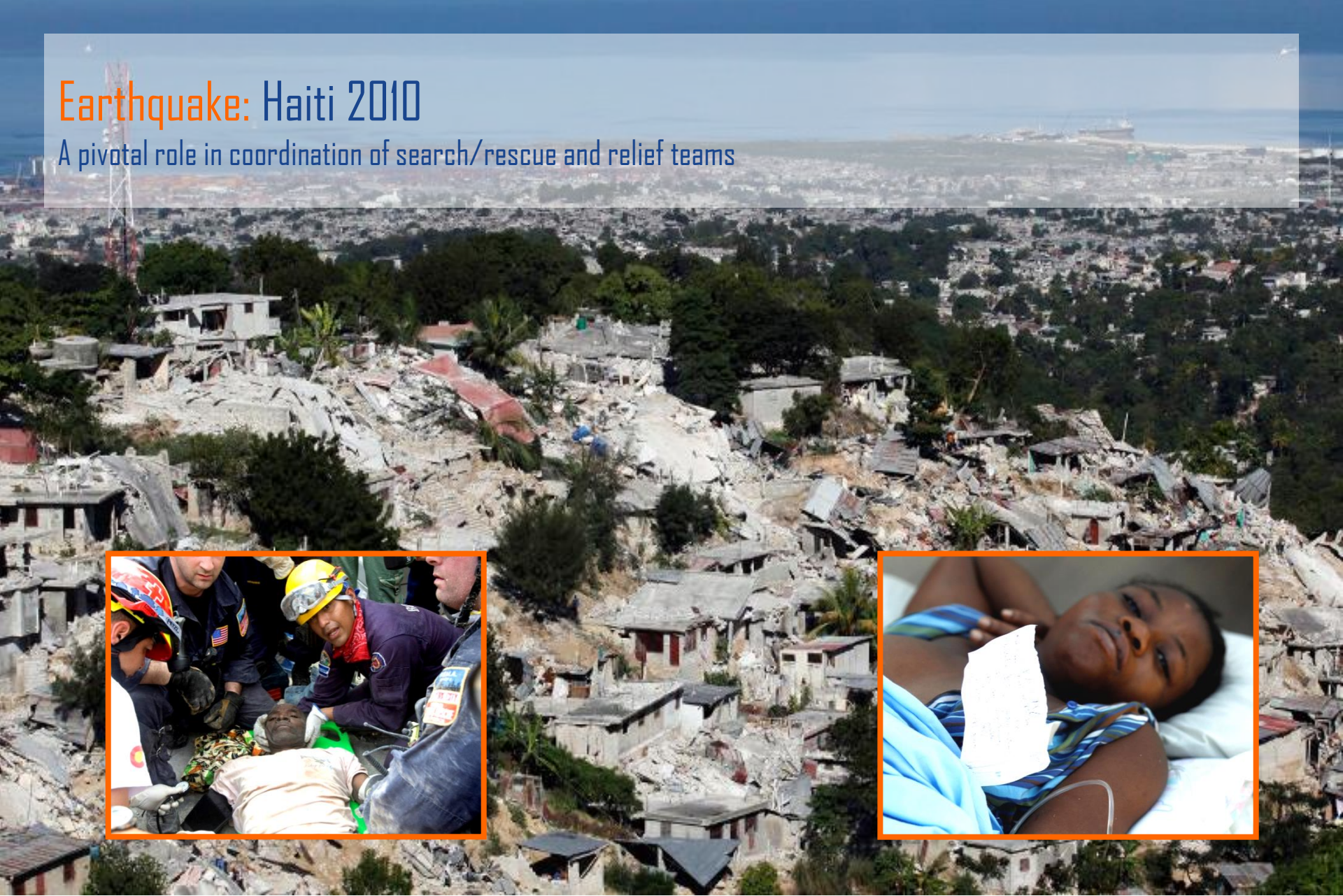
UN Coordination Centre





Earthquake: Haiti 2010

A pivotal role in coordination of search/rescue and relief teams





MapAction

Haiti: Earthquake-SAR Completed Sectors Port-au-Prince (19 Jan 2010 14:00)

Map shows search and rescue sectors completed by the 19th January 2010.



Created: 19 Jan 2010 11:00
Map document: W625-h-SAR_sectorsComplete_16Jan10
Projection / datum: Geographic / WGS84
GLIDE Number: EG-2010-000209-HT

The depiction and use of boundaries, names and associated data shown here do not imply endorsement or acceptance by MapAction.

- UN Coordination
- Hopital Espoir
- Field hospitals
- Sectors
- Sectors completed

Data sources:
Landsat
SAR: UNOAC
Roads: OSM

Produced by MapAction www.mapaction.org
mapaction.haiti@gmail.com

MapAction is grateful for the support of DFID



Hospital Locations

Israeli
18° 34' 19" N, 72° 18' 59" W

Spanish
18° 33' 23" N, 72° 17' 58" W

Russian
18° 31' 24" N, 72° 15' 10" W

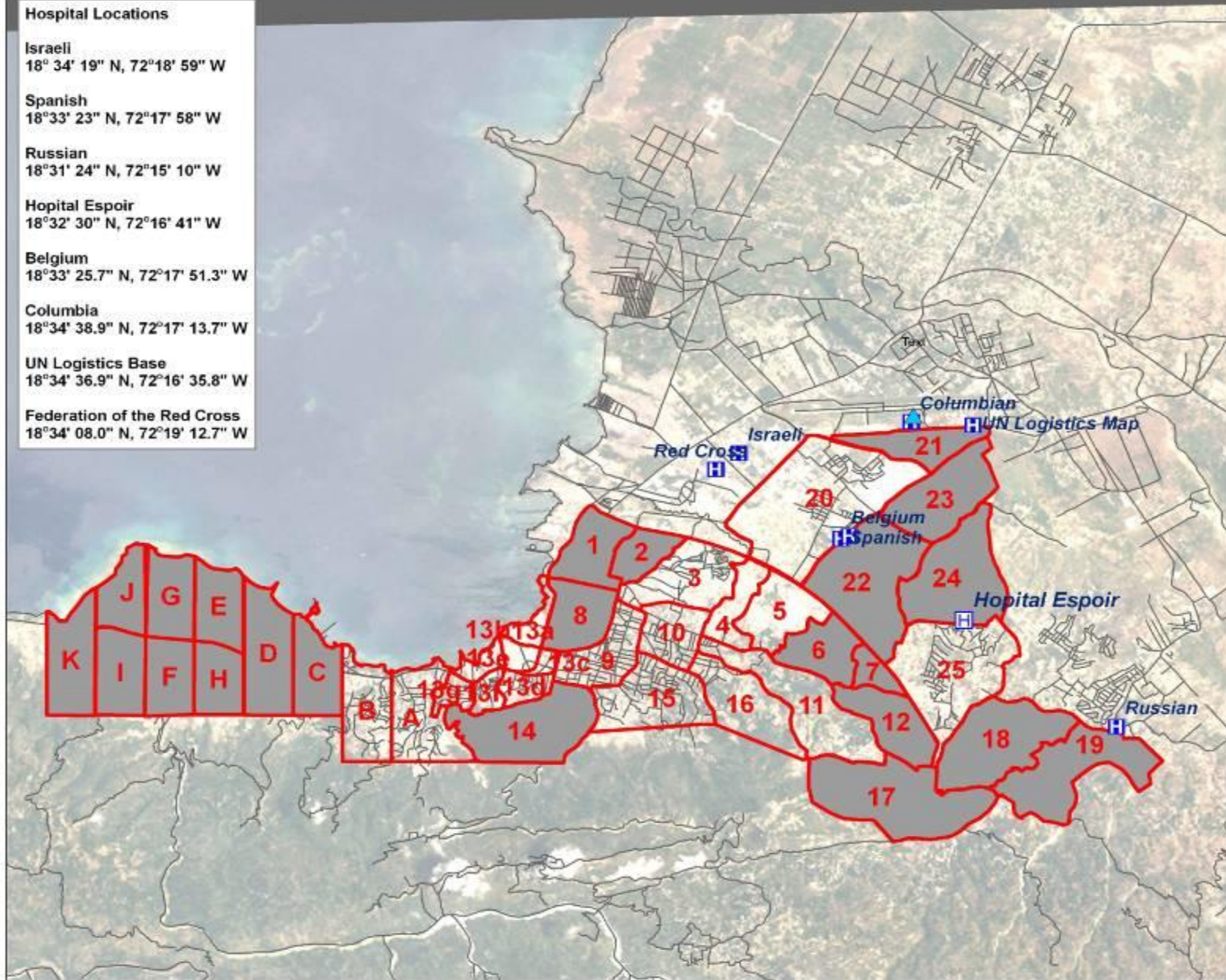
Hopital Espoir
18° 32' 30" N, 72° 16' 41" W

Belgium
18° 33' 25.7" N, 72° 17' 51.3" W

Columbia
18° 34' 38.9" N, 72° 17' 13.7" W

UN Logistics Base
18° 34' 36.9" N, 72° 16' 35.8" W

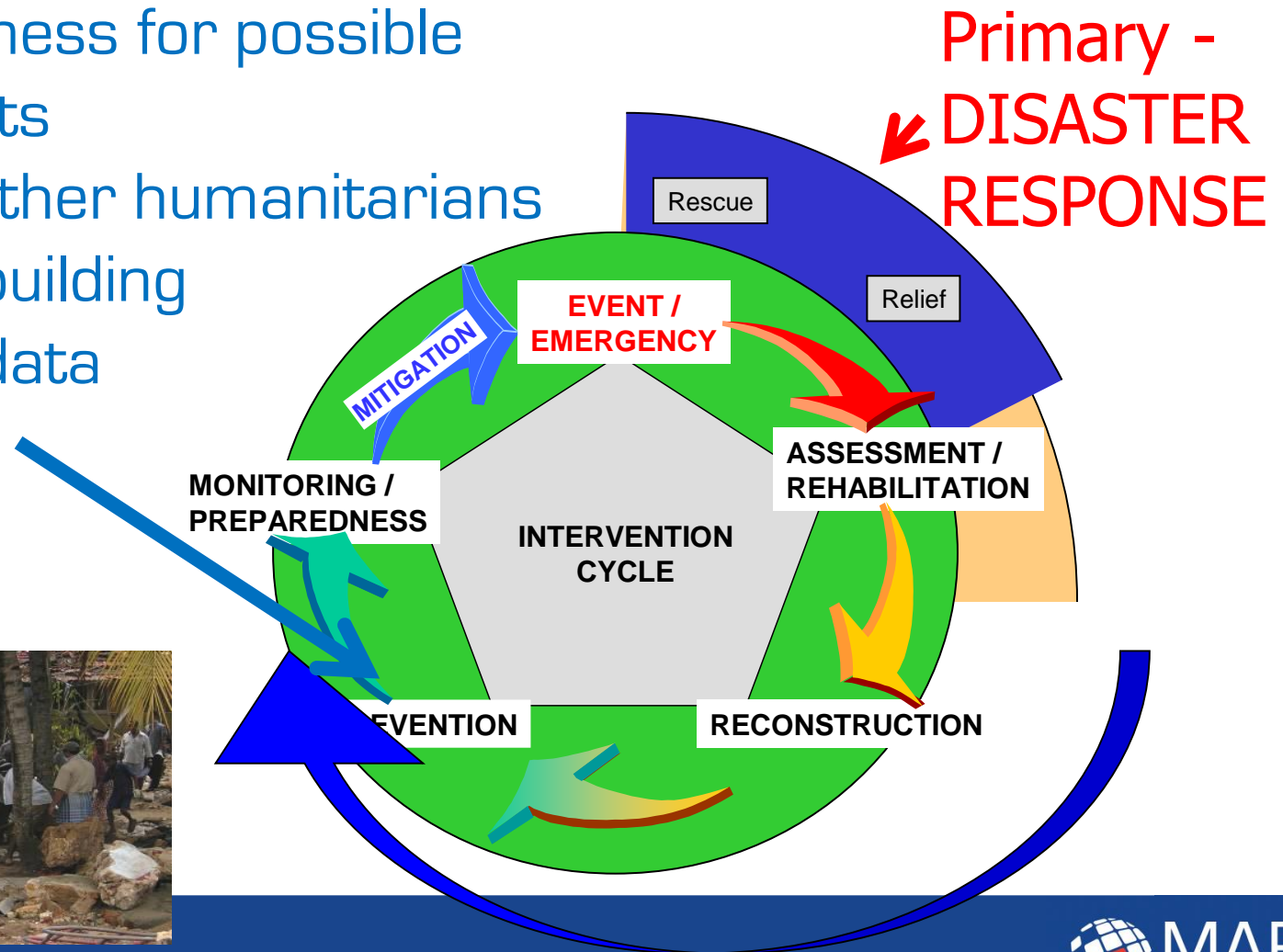
Federation of the Red Cross
18° 34' 08.0" N, 72° 19' 12.7" W





MapAction in the Disaster Cycle

- Preparedness for possible future events
- Training other humanitarians
- Capacity building
- Collating data



Working with partners in training & preparedness



MapAction 2018

- 5 DISASTER responses
- 6 Emergency responses
- 7 Simulation exercises
- 19 Partnership building missions
- 12 Training courses for partners

Funding MapAction

- Annual budget of £1m supports 10 staff, office, 100 volunteers and all missions – so very cost effective.
- Main funders are UK, Dutch & US governments plus a few grant giving bodies.
- No funding comes from UN and little from our partner charities
- Due to Brexit we are about to lose significant funding from the EU who have provided support over several years.

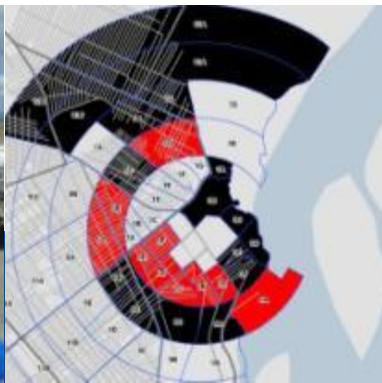
MapAction in Partnerships

- For an organisation wishing to enhance its role in humanitarian response -
- MapAction has the experience and contacts at the highest level of the humanitarian system to help develop and execute a programme that will optimise such a response capability.
- *But* – MapAction is a charity and does not have independent funding resources to achieve this in addition to providing its own mainstream disaster response – given free to all.



MAP ACTION

mapaction.org









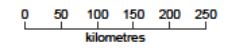


Caribbean Hurricane Maria Stormtrack (as of 19 Sept 2017; 12:00)

Map showing the track of Hurricane Maria over the Caribbean, their windspeed estimate and forecast path

Legend

-  Maria Storm Track Actual
-  Maria Storm Path Forecast
-  5 day forecast prediction cone
- Maria Est. Wind swath (kts)**
-  64 (hurricane)
-  50 (Tropical Storm)
-  34



1: 6,339,510 (At A3)

Data sources

Situation: NOAA NHC
Boundaries: GADM, OSM
Settlements: NGA, OSM

Created 19 Sep 2017 / UTC-04:00

Map Document

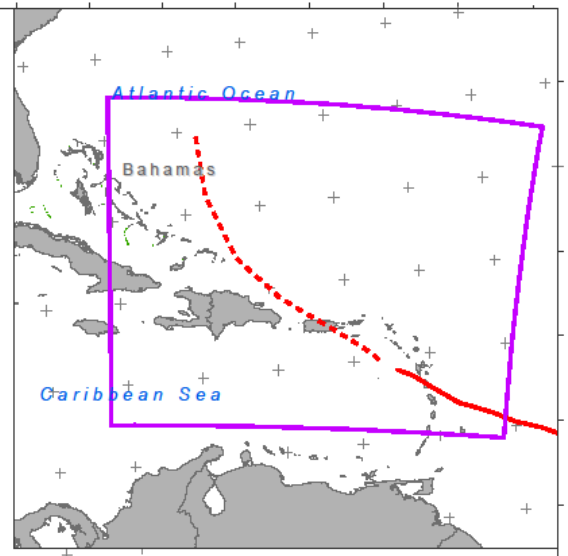
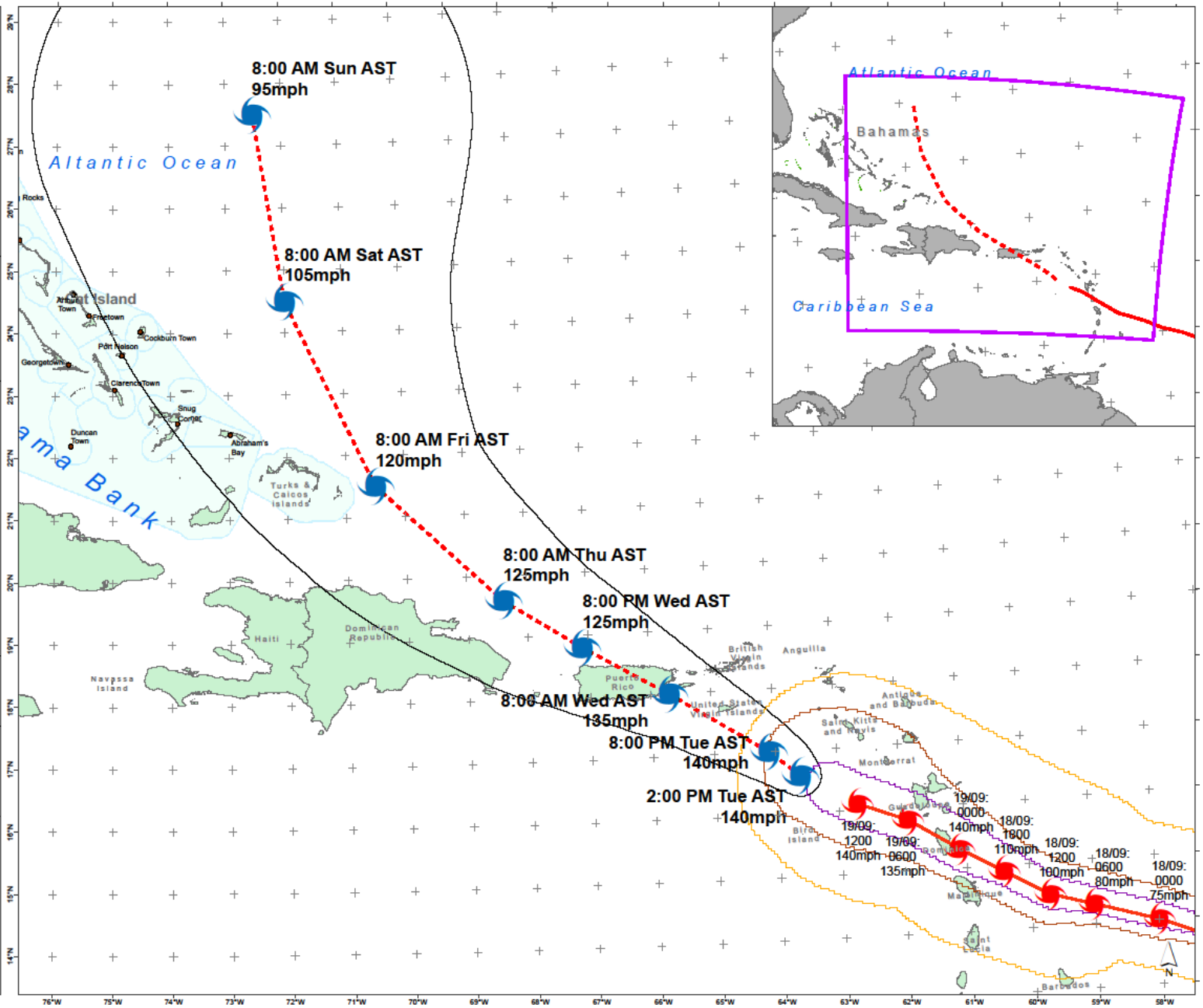
Projection & Datum WGS 1984 UTM Zone 18N / Datum

Glide Number TC-2017-000125-DOM

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