



First Regional Workshop on Tsunami Inundation Modelling in the North West Indian Ocean

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Data Availability

Data	Bathymetry	DEM
Availability	YES	YES
Resolution	15 arcsecond	5m and 15m
Resolution in pilot area	15 arcsecond	5m and 15m

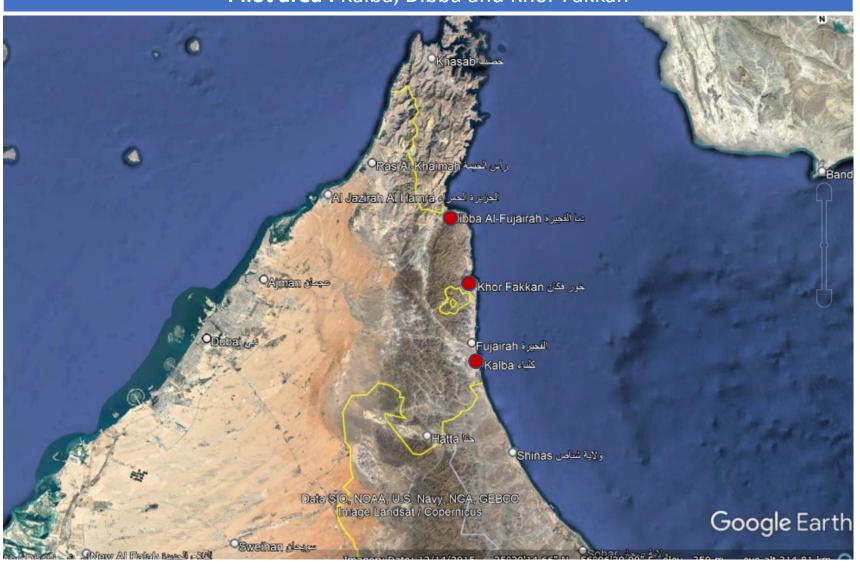
Note: In progress to get bathymetry data in higher resolution from local entity.

	Availability in pilot area	comments
Digital land use information, development information, zoning map	YES	Residential & Industrial buildings, Transportation, Utilitiesetc

	Scenarios	Worst case scenario	Probabilistic hazard information
Availability	YES	YES	YES

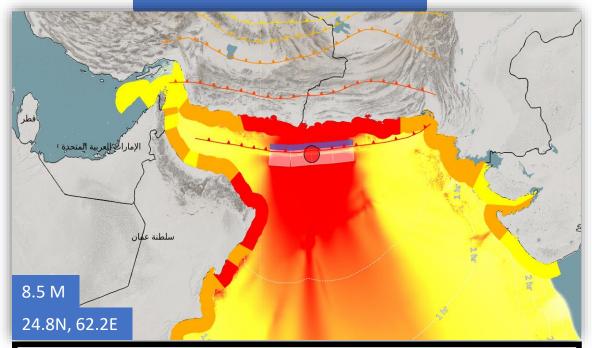
Pilot Areas

Pilot area: Kalba, Dibba and Khor Fakkan



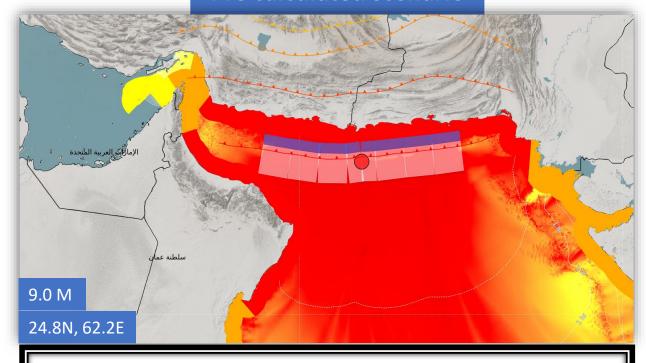
Hazard Information for Pilot Areas

Worst case scenario



THERE IS THE POSSIBILITY OF A TSUNAMI IN THE FOLLOWING AREAS : Warning Level ETA (GST) EWH (m) Location 2022-09-06 10:43:55 0.58 Dibba Coast Watch 2022-09-06 10:39:40 0.45 Khor Fakkan Coast Advisory Fujairah Coast 2022-09-06 10:35:40 0.38 Advisory Kalba Coast Advisory 2022-09-06 10:35:40 0.36 Ras Al Khaimah Coast No threat

Pre calculated scenario



THERE IS THE POSSIBILITY OF A TSUNAMI IN THE FOLLOWING AREAS :

Location Dibba Coast Khor Fakkan Coast Fujairah Coast Kalba Coast Ras Al Khaimah Coast	Warning Level	ETA (GST)	EWH (m)
Dibba Coast	Watch	2022-09-06 10:23:12	2.76
Khor Fakkan Coast	Watch	2022-09-06 10:19:12	2.45
Fujairah Coast	Watch	2022-09-06 10:14:27	2.27
Kalba Coast	Watch	2022-09-06 10:14:12	1.75
Ras Al Khaimah Coast	No threat	2022-09-06 12:13:27	0.20

Map for Kalba area

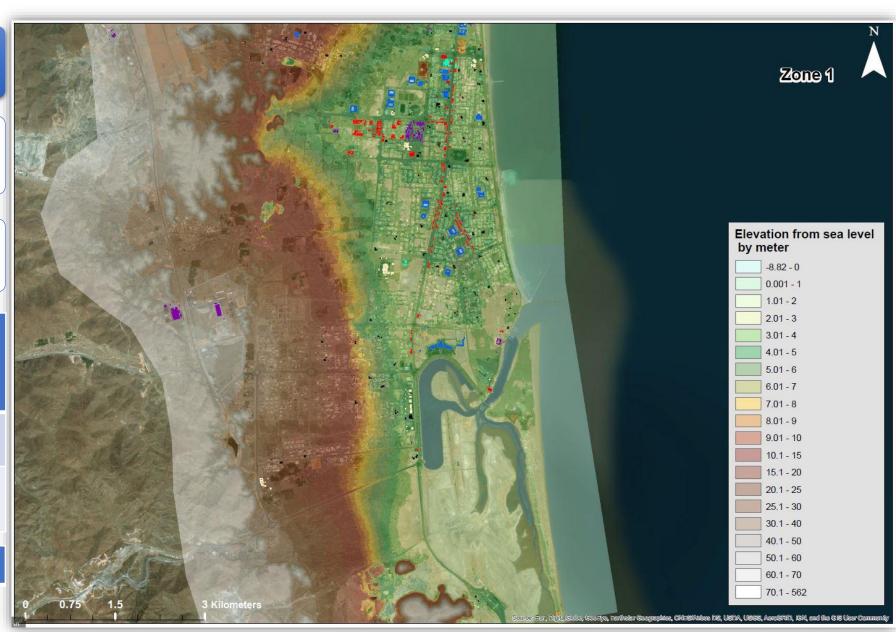


Arc GIS

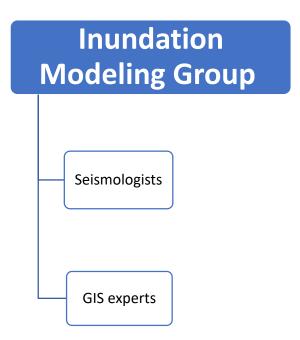
DTM 5m

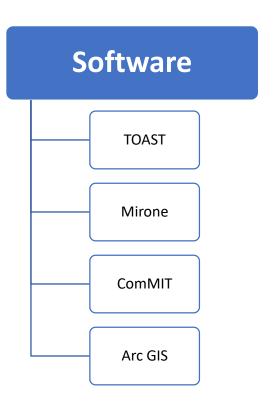
IOWAVE20 9.0 M (24.8N, 62.2E)	Wave height in Kalba
TSP Australia	1.49 m
TSP Indonesia	4.12 m

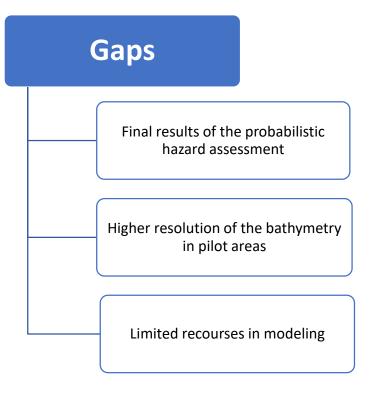
Note: First wave arrival in 22 min



Inundation Group







Thank You







