



How do our knowledge about the shape of the World oceans floor reach this level of detail?

Mars was mapped already in 1998 and 1999 by NASA's Mars Orbiter Laser Altimeter (MOLA). From Mars Express High-Resolution Stereo Camera (HRSC) images, DTMs of 50x50 m resolution are produced and ortho-images with 12.5 m resolution (*Gwinner, et al., EPSL, 2010*)

GEBCO 2030 Mapping Program

Goal:

Map 100 % of the World Ocean Bathymetry by 2030

- To what resolution is this achievable?
- Do we have the technology?
- Do we have the human capacity?
- What program structure is required?
- Are there more parameters than seafloor depth that can be included in such a program? (seafloor sediments, habitats?)

GEBCO 2030 Mapping Program

A program built on human capacity

1: Six programmers/data regional bathymetric compilers 2: Six regional networkers 3: One central GEBCO compiler.

A program built on six regional mapping compilation centers

1: Atlantic Ocean 2: Arctic Ocean 3: Indian Ocean 4: Pacific Ocean 5: Southern Ocean 6: Mediterranean Sea

GEBCO Central Hub

GEBCO, assembling of regional compilations, version control, web



GEBCO







GENERAL BATHYMETRIC CHART OF THE OCEANS (GEBCO) WORLD OCEAN BATHYMETRY

> Mercator Projection – Scale 1:35 000 000 at the Equato Depths in corrected meters







