Updates From Germany – New Vessels

- Replacement of SONNE
  - pre-tender call for ship yard / operator consortium found 6 teams
  - deadline for indicative bids was Oct. 2009
  - final assessment and negotiation until June 2010
  - contract should be signed in July 2010
  - vessel should be delivered by mid 2013

- Replacement of POLARSTERN
  - scientific community suggests a new ship no refurbishment
  - discussion of requirements in scientific advisory committees are underway
  - list of requirements to be completed by early December
  - scientific advisory board meets in March 2010
  - vessel completion not before 2016
Updates From Germany - Compressors

R/V MERIAN

- three new compressors in 2010
  - hull mounted
  - 36 m³/min
  - max 400 bar

R/V METEOR

- 1 mobile compressor in 2010
  - 10“ container
  - 12 m³/min
Updates From Germany – R/V POSEIDON

IFM-GEOMAR
R/V POSEIDON

- major refurbishment in 2009 & 2010
  - new engines
  - new and upgraded air condition
  - refurbishment of lab space
  - refurbishment of winches
  - digital length counter

- refurbishment of mobile Werner Winch
  - 11 mm coax wire
  - fibre optic prepared
  - 3000 m wire
Updates From Germany - Equipment

MARUM - Bremen

MeBo specifications

- Drilling depth 70 m
- Coring of soft sediments and hard rocks
- Wireline system available
- Autoclav chambers developed
- Core diameter 55 – 84 mm
- Deployment depth 0 – 2000 m
- MeBo weight about 10 tonnes
- Total system weight about 75 tonnes
- Transport within six 20' containers
Updates From Germany - Equipment

IFM-GEOMAR

3-D Seismic Acquisition System P-Cable

• two trawl doors hold a set of streamers perpendicular to the ships heading
• multiple short streamers provide full 3-D coverage
• easy to deploy – flexible to operate
• operation from mid size vessels
Updates From Germany - Equipment

AWI – DEPAS Pool

- 80 OBS / 5 OBH (increasing)
  - 68 Standard OBS
  - 12 deep sea OBS (8000 m)

- availability requires project funding
- 24 OBS, 1 year deployment, incl.
  shipment and technician  229 kEUR
Updates From Germany - Equipment

Under Development

IFM-GEOMAR

- portable multibeam with WCI for gas bubble detection
  - automatic tracking algorithms

- deep towed multichannel streamer

- deep towed EM source

- stationary HF EM and MT receivers

BGR

- bottom towed CSEM
  - improved sensitivity