



**IODP Proposal 716: Hawaii Drowned Reefs
1st Project Management Team Meeting**

British Geological Survey, Murchison House, West Mains Road, Edinburgh, EH9 3LA
Monday 15th November, 10 am – 5 pm
Geikie Room, Level 4
Visitors please sign in at the front reception and ask for David McInroy.

Attendees

Dr Jody Webster	University of Sydney
Dr David Clague	Monterey Bay Aquarium Research Institute
Yoshi Kawamura	Operations Manager, IODP-MI
Dr Sarah Davies	ESO European Petrophysics Consortium Manager, University of Leicester
Annick Fehr	ESO Petrophysicist, RWTH Aachen University
Dr Ursula Röhl	ESO Curation & Laboratory Manager, University of Bremen
Robert Gatliff	ESO Chair, Head of Marine Geoscience, British Geological Survey
David McInroy	ESO Science Manager, British Geological Survey
Dave Smith	ESO Operations Manager, British Geological Survey
Alister Skinner	Consultant, ACS Coring Services.

Agenda

The meeting is scheduled to start at 10 am.

- Welcome, introductions, and logistics (McInroy).
- Presentation: Introduction to Mission Specific Platform Expeditions (McInroy).
- Presentation: Scientific background to IODP Proposal 706 (Webster/Clague).
- Presentation: Potential operational scenario for a Hawaii MSP Expedition (Smith).
- Presentation: Potential logging scenario for a Hawaii MSP Expedition (Davies/Annick).
- Discussion of items arising from the above presentations, including but not limited to:
 - o Coring strategy
 - o Logging strategy
 - o Measurement strategy
 - o Permitting
 - o Other logistics and information to aid planning

A buffet lunch will be served at the BGS.

The meeting will finish no later than 5 pm.

Water Depth; 100 (140) m ~ 1,300 (1,160) m (including alternate sites)

Penetration; 140m (reef, sediment) + 10m (basemen)

Why not JR?

HQ drill string is not capable. API drill string.

- Reef may thinner (100m~)

Site survey; huge data, but not seismic? (basement has to be guess, no refraction)

Whale permit; winter time is no drilling. (November- March)

Weather: Summer time windy? Affect coring result (best season: aug-oct, nov is good)

Close to beach; (5km) noise issue (not only drilling, DP low frequency noise)

Deep water coral, has to avoid

Surface current; a few knots

Basalt has to be drilled more than 3m to confirm the basement.

Grand slope gradient; a few degrees?

Seabed drilling system; several systems, PROD, Mebo, RD2

Downhole logging for MSP; by STP, for MSP, regardless depth of the hole, has to be performed.

As PI prospective, no wireline logging required.

Permit for seabed drilling;

Permit by the state and/or federal. UNCLOS, whale sanctuary

US flag/US operating Ship

Core size by seabed drilling; 44mm core, vs 63mm ordinal

Science goal can be achieved?

Large diameter seabed drilling; 85m

Wireline Logging with seabed drilling system

GR and acoustic (sonic) data is essential

summary

Less setup required rather than GBR, Tahiti

MSCL measurement is not essential on board. No need selection of location, depth

Truck record of PROD with logging capability

Motor Driven Core Barrel/TDCS (Turbo Drill Core System)

