

**#21-A1 mini-PMT Memo**  
**23-24 February 2012**  
**JAMSTEC, Yokohama, Japan**

**1. Meeting Participant:**

Harold Tobin	Co-Chief Project Scientist, University of Wisconsin
Masa Kinoshita	Co-Chief Project Scientist, IFREE, JAMSTEC
Demian Saffer	Specialty Coordinator, Pennsylvania State University
Gaku Kimura	Specialty Coordinator, University of Tokyo
Greg Moore	Exp.338 Co-chief & SC, University of Hawaii
Michael Strasser	Exp.338 Co-chief, ETH Zurich, Switzerland
Kyu Kanagawa	Exp.338 Co-chief, Chiba University
Brandon Dugan	Exp.338 Co-chief, Rice University
Wataru Azuma	CDEX
Yasuo Yamada	CDEX
Nobu Eguchi	CDEX
Ikuo Sawada	CDEX
Tomo Saruhashi	CDEX
Moe Kyaw Thu	CDEX
Sean Toczko	CDEX
Issa Kagaya	IODP-MI
Yoshi Kawamura	IODP-MI

**2. Discussion Points:**

Prior to the meeting, Yoshi Kawamura explained the needs of this sudden mini-PMT meeting before Exp.338 pre-expedition meeting. On 22nd Feb, PMT members were informed a recent CDEX H24 (JFY12: April 2012 – March 2013) budget developments by CDEX Nobu Eguchi. Following the information, the NanTro PMT needs to clarify the situations and discuss the affect on Exp.338 operations.

**1. H24 (JFY12: April 2012 – March 2013) CDEX budget:**

- Wataru Azuma and Yasuo Yamada explained recent H24 budget development.
  - Due to 3.11 Tohoku Earthquake, all basic science budget in H24 will be affected/reduced.

- By the current IODP FY12 APP operation plan, CDEX will short 20MUSD (on Total: POC & SOC).
- Exp.343 (JFAS) & Exp.337 (Shimokita CCS) will not be suffered drastically by this budget shortfall, because of matching fund/other cost support.
- CDEX wants to keep the target/reaching depth as 3,600mbsf in FY12 (H24), based on the midterm operation strategy/plan. To keep possibility to reach Mega-Splay fault (5,200mbsf) for FY13 (H25) exp.
- To achieve 3,600mbsf drilling with a minimum sample & data acquisition, still CDEX will short 8MUSD in H24 budget.
- CDEX is putting tremendous effort to recover/gain 8MUSD shortfall with JAMSTEC top management.

## 2. H24 CDEX new operation options:

- Ikuo Sawada explained CDEX proposing operation plan (see attachment). Main cost reduction comes from shortening expedition duration (from 126 days to 102 days) and cutting the cost of wireline logging operation. To meet new duration and the budget, following changes are proposed;
  - Introduction of the Logging & Reaming While Drilling (LRWD) for 16" casing (2,300mbsf) and 13-3/8" casing (3,600mbsf); save twice of pip tripping
  - Reduction of coring trip (from two to one), one 100m coring just after 16" casing set; save twice of pip tripping
  - No wireline logging operation both 16" & 13-3/8" casing section (900mbsf – 3,600mbsf)
  - 16 weather/typhoon contingency days inclusive
  - Remaining scientific measurements, data, samples:
    - ◇ LWD: resistivity, resistivity image, GR, annual fluid pressure
    - ◇ Core: 2,300 – 2,400mbsf section (100m)
    - ◇ Cutting: 900 – 3,600mbsf section (every 5m penetration)
    - ◇ Surface Gas monitoring
- PMT raised several concerns to CDEX proposal.
  - Possibility of further reduction/change on Exp.338 operation
  - Possibility of regaining 8MUSD shortfall in FY12 (H24) operation
  - FY13 (H25) NanTroSEIZE expedition; re-size?
  - No density, sonic and stress measurement (no wireline logging, not

plan as LWD)

- Adding other LWD measurement such as Sonic, Seismic, & NMR, if feasible
- Quality/value of cuttings
  - ✧ Less correlation to core (only one coring section)
  - ✧ Depth certainty/assurance (bit to under-reamer distance, large volume)
- BHA/drill pip stuck, hole clean-up with LRWD set up (opening large diameter hole at once)
- Noise on LWD data by LRWD operation

### 3. Other discussion during Pre-Expedition meeting

- Strong concern for IODP budget/funding by Japanese government (MEXT), need to explore other funding source in Japan, like JFAST, Shimokita CCS
- PMT may send strong recommendation/consensus related the current budget situation to ?
- JAMSTEC top management seems like committing 3,600mbsf targeted expedition, confirms to fill 8MUSD shortfall
- Consider additional contingency plan, based on the Observatory team meeting
  - C0006 site by JFAST thermister-string

### 3. Possible/agreeable Consensus:

#### 1. Consensus PMT21.1-01:

The PMT agrees/supports CDEX new FY12 operation proposal (102 days operation) to drill down 3,600mbsf and set 13-3/8" casing with reduced science operations. However, PMT strongly requests CDEX to consider the following points;

- Regain FY12 (H24) Exp.338 budget to extend the operation days as the original plan
- Consider additional LDW measurements (Sonic, Seismic, NMR) within available budget
- More careful, detail study for LRWD (Logging & Reaming While Drilling) operation, to minimize operation failure