



**Daily Drilling and Scientific Report for IODP Expedition 325,  
Great Barrier Reef Environmental Change**

**10<sup>th</sup> March 2010 (0000 - 2400 local time)**

**1. Location**

HYD\_02A Site 12 (M0043A) and HYD\_02A Site 8 (M0044A and M0045A)

Time zone: Brisbane Australia Time, UTC +10

Position at midnight (drill string):

Latitude: 19° 47.90526 S

Longitude: 150° 28.77651 E

**2. Activity summary**

Following completion of coring operations at M0043A, the post coring camera survey was conducted before moving to HYD\_02A Site 8 (M0044A) and commencing operations. M0044A was terminated at 11mbsf due to a problem with the overshot wire. The vessel moved to M0045A (whilst live camera footage was viewed) and commenced operations. A further small shift in position was required after the first attempt failed to penetrate due to the sea bed topography.

**3. Science report**

Core 1R (M0044A) penetrated 2.5mbsf and recovered broken coral fragments. Core 2R advanced to 4.0mbsf with only a well preserved corymbose (branching) *Acropora* jammed in the core catcher. Coral framestone continued until Core 8R, with poor recovery. Core 9R was the final core of M0044A, containing coral framestone with massive tabular *Acropora* sp.

The vessel then moved approximately 5 m away to recommence coring. Several attempts were made, however Cores 1R - 4R all had zero recovery.

#### 4. Core recovery details

<b>Hole</b>	M0044A	M0045A
<b>LAT water depth</b>	106.41m	106.6m
<b>Cores recovered</b>	9	9
<b>Drilled length</b>	11m	14.6m
<b>Recovered length</b>	1.67m	0m
<b>Recovery</b>	15.18%	0%
<b>Depth at midnight</b>	11mbsf (final depth)	14.6mbsf (final depth)

#### 5. Weather

Sea state: moderate (4) with swell of 1.25 – 2.5 m; wind direction SE occasionally ESE force 6 (22-27 knots); partly cloudy becoming periodically overcast with showers; 28°C.

Next 24 hrs: Sea state moderate to rough with swell of 2.5 – 3 m in open waters; wind direction SE 20 - 25 knots, increasing to 25 - 33 knots by the evening; scattered showers.