

Acoustic Source Tow Equipment Testing
January 16th, 2009
R/V R. G. Sproul

We will be conducting acoustic source tow equipment testing in preparation for the ONR sponsored J/PSIEX1 in 2009 on the R/V Melville. The test area will be 12 nm due west of the outer buoy at N32° 39.455' and W117° 32.1'. Water depth in this area is about 600 fathoms (1200ft).

Test objectives will be to exercise the winch, cable and acoustic source at various tow speeds up to 5 knots. Additionally we want to determine the required line out to achieve the desired depth at various speeds. The maximum operational depth of the J15-3 transducer is 200ft. Since we will have a depth gauge on the towed source we will also be able to determine the layback angle of the cable for a given depth and tow speed.

We will depart from the MARFAC pier at 08:00 on Friday the 16th of January returning that same day. Transit time is estimated at 2 hours.

Equipment

The only equipment needed from the Res Tech office will be the 18inch diameter, urethane-lined, sheave previously identified and used on our December cruise. The sheave should be mounted on the A-frame.

Loading

We will be loading our equipment the day prior to departure: Thursday, Jan. 15th.

- 1) Winch with cable: ~ 1000lbs
- 2) J15-3 transducer: 750 lbs
- 3) Miscellaneous computers and electronics equipment

Schedule

08:00 – 10:00: Depart MARFAC, transit to test site
10:00 (est.) Arrive test site
10:00-14:00 Equipment testing (est.)
14:00 Depart test site
14:00-16:00 Transit to SD
16:00 Arrive MARFAC