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#80005

MSO CRUISE REPORT

CRUISE R/V Outrage DATE Feb 4-10/80 AREA Charlotte Harbor Fla

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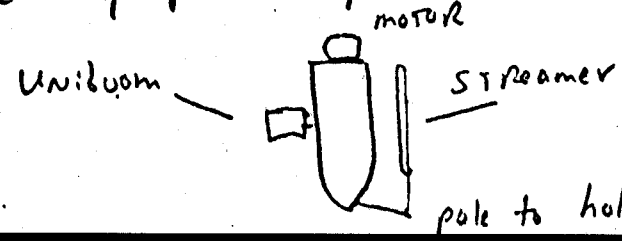
CRUISE OBJECTIVES:
Map shallow limestone aquifers (60-200') in Peace River, Myaka River and Charlotte Harbor Fla.

EQUIPMENT: EG&G Uniboom, Teledyne 800 joule sparker, Bludworth 50 joule sparker, H.P. 8 channel tape recorder, EPC 3200 recorder.

EQUIPMENT PROBLEMS:
- Tape recorder must run on separate generator when using the Uniboom. If not you lose sync. on tape recorder.
- A ground strap must be used with uniboom pwr supply at all times.

COMMENTS & SUGGESTIONS:
We used a non linear hydrophone array that gave extremely good high resolution in addition to good deep penetration. A standard linear array (15 phone spaced 12" apart) provided poor resolution in the upper 20-50 ft. although deeper data (150') was good.
On a small boat (21' Boston Whaler) you can lash the uniboom to the boat on one side and tow the hydrophone off the opposite side. Be sure hydrophone does not extend back past the boat stern due to prop. noise problems.