

vessels. Some progress is being made on the Munitions Act impacts on the fleet. Possibility exists for a blanket three-year license for the fleet, but that has not yet been finalized. Noted that, as usual, ship demand exceeds available ship funding for coming year. Small SWATHS-MBARI Designs/SWATH Concept and Model Tests

4

Robison reviewed designs of 90-100' SWATH for MBARI and WHOI. There are three companies presently involved in presentations to MBARI. Design information will be available to FIG. The committee discussed the previous SWATH model test endorsement at the November 1989 meeting and the offer at that time of use of other funds to support a test of the four-strut design. The Committee still views these tests as of high value. Need to know progress of the original plan. Some data for smaller swaths will be available from MBARI work. Robison and Dinsmore will be summarizing progress and status at the October meeting. If the committee continues to view these studies as highly important, the forthcoming committee budgets for operation under UNOLS office will need to include adequate funds for such work.

Lake Research Catamaran SMRs Johnson (Duke) has been chairing a planning group for African lake research that will involve need for a small (ca. 50') research vessel that is easily transportable. They are considering seeking funds for preparing the SMRs for such designs and have approached FIG as a possible coordinator. The committee noted the interesting research possibilities but also felt that this is an international study and out of the purview of FIG. The group should seek international support. Gorsline will write to Johnson. Shift of Budget and Administration of FIG to UNOLS Office The FIG will be administered by the UNOLS Office for the October and subsequent meetings and activities. The remaining TAMU funds will be adequate to cover existing studies and remainder will be used to support Royer travel for the Arctic Ice-Capable Vessel study oversight. The Committee unanimously applauded Sheri Pappas' fine work in our behalf.

New FIG Chair and Members Gorsline noted need to appoint a new chair for 1991 and also that several members will rotate off in 1991 and need to be replaced or reappointed. Keller requested suggestions for members and will make appointments.

Next Meeting The next meeting will be at Woods Hole October 4-5, 1990. Dinsmore has arranged a conference room reservation and UNOLS Office will arrange logistics and accommodations. The Incoming Executive Secretary, Jack Bash, will attend, and the new UNOLS Chairman will also be invited to attend.

Meeting was adjourned at 10:30am, July 20, 1990.

July 23, 1990

5

Send corrections, additions, comments to Sheri via W.Nowlin with cc to D.Gorsline. I will circulate drafts of letters later this week for comment.

Sheri...here are the first draft meeting notes. Note Submarine SMR and report for publication when corrected copy comes from Bruce. Great meeting. Talk to you later. Donn.

Action?

Comparison of "Ideal" SMRS with Actual UNOLS Fleet  
Gorsline has looked at simple plot of standard parameters (berths, storage space, deck space, etc). Does not materially differ from FIP appendix tables. Other styles of presentation may have more impact. Bar graphs, etc. Discussion noted that the problem of quantifying capability of classes or individual ships is difficult, multi-dimensional. It was suggested that comparison of classes at decade interval (1981-1991, plus 1989 as latest year of data summary) might be useful. Contrast old vessels with their replacements. Concentrate on intermediate and large ships. Such factors as usage, cost, critical equipment as factors. All agreed that number of berths, range, endurance, deck space, storage, lab space, displacement were necessary factors. Gorsline will experiment and report back by OMNET and at October meeting.  
DPP RVIB Progress  
Sutherland reviewed the status of the construction project of the RVIB Nathaniel Palmer (early Antarctic explorer, Palmer Peninsula). Showed general ship statistics and design. Advisory committee has met twice and will shortly meet again. All committee suggestions on design have been taken by contractor so far as budget will allow. Coordination seems good. The discussion reviewed the status of the POIART DUKE as the new ship comes on line. Use of DUKE north of 600S was discussed. The problem is funding, and logistics for far use (Arctic). Antarctic work will probably fully utilize PALMER. Long-term plans may include acquiring a new HERO for Palmer Peninsula support. Greater use is now being made of the DUKE's capabilities. Sutherland noted that the PALMER operation will require much more sophisticated system and management. Possible sole contractor (possibly academic institution/consortium) to provide scientific support. Committee noted possible similarities in ODP, ALVIN, other special facility operations. Will continue to monitor. Good cooperation from DPP via Sutherland.  
KNORR, MELVILLE, THOMPSON, EWING Updates  
Barbee, Langseth and West all commented on progress of these new or modified ships. EWING is now at sea and has full schedule. Rudder, working well. Sea trials have been good. The KNORR and MELVILLE have both continued to fall behind schedule. Over runs in costs have been a continuing problem. Committee also discussed the potential impact on both ships by USSR entrepreneurial activities. There are other potential schedule/use conflicts between Navy and WOCF operations.  
The THOMPSON is near or on schedule. Launch will be late July. May be a couple of months late on completion date. Generally holding well.  
AGENCY Reports  
West reported little change in NSF programs, funding etc. as of this date. New wire purchases have been funded. Some refitting of the WARFIELD are being reviewed. Central Atlantic In-situations are meeting to review use of available small ships. Ship use and available funds continue to be tight.  
No other agency representatives were present. Keller reviewed current navy plans for AGOR-24, 25 as new additions to AGOR-23 class. One would probably be ATLANTIS-II replacement. Situation is fluid.  
UNOLS Council Meeting, July, 1990  
Keller briefly reviewed the work of the council that affected FIC work. Noted further discussion on designation of UNOLS

Ocean Science with the USSR Oceanological Institute (Vladivostok) for 180 ship days of a large vessel in the Arctic for each of the coming 5 years. Will be dependent on Canadian and US scientists obtaining grants or contracts for research. Part of a growing surge of USSR entrepreneurial activity by several organizations to work out agreements with foreign scientists on ship use and other ocean cooperative studies. Will exert a major impact on UNOLS fleet activities in coming years. Discussions are also underway for use of a Soviet icebreaker to work in tandem with the ALPHA HELIX. Other committee members cited other negotiations and offers. Problems include equipment on Soviet vessels, use of US equipment, effect of Munitions Act on such cooperative work, etc. FIC should continue to monitor the problem.

SMR Study for Submersible Support Vessel

Roger Cooke will shortly be submitting a draft of the committee report. FIC reviewed some initial comments and communications that give some concern that the committee may not have met the original charges to prepare SMRs for such vessels and also to review possible use of existing large UNOLS vessels for that role. Gorsline will look at the draft when received and then communicate to Cooke as necessary.

Information Items

Mr. Laible of Glostien Associates was to have prepared a report estimating the present value of the UNOLS ships and costs for future refit and replacement. Data still being accumulated. No FIC action required.

The committee discussed the work in progress of a committee to investigate means for improving SMRs for UNOLS RVs with regard to reasonableness of requirements and appropriateness of such requirements. Committee discussed the issue and urged that a preliminary report be sent by Hutchinson (Glostien) for review in October. There was some concern voiced about need. Gorsline will communicate with Nowlin.

The compendium on small RVs by Dinsmore is in progress. The committee will expect to hear of the progress at the October meeting.

Desireable Scientific Systems

Barbee noted the lack of available data except for such items as winches. Great variety is present. Committee discussed the issue and decided to maintain interest but that need is presently low.

Classification of RV's-Alternatives to length

Gorsline reviewed this and the companion task to analyze what constitutes a full working year for various classes. Keller reported that another group appointed by the Council is now working on the problem. On the classification problem, UNOLS now uses FOFSC classes. SWATH vessels are a special case. Discussion noted that this problem may not be a need for our clients. UNOLS. Also noted that these questions arose during review of the Fleet Improvement Plan and that the concerns of the Navy were met in the revisions. May not be a present problem.

Draft SMR's for Research Submarine

Only comments on the revised draft were from Langseth. He and Robison will get together on addenda or revision. In the main SMRs and report was accepted. SMRs will be published as a new addition to the SMR manual. Report will be published as a special report of FIC. The report text plus some additions from MBARI engineers will be sent to MTS Journal and to the Oceanography Magazine.

FOFSC

Posted: Mon, Jul 23, 1990 2:02 PM PDT

Msg: LGJA-4342-2464

From: D.GORSLINE

To: umols.fic, k.kaulum, g.keller, umols.office, r.west,

d.heinrichs, j.keller

CC: nsf.dpp.oceanops

Subj: Draft Meeting notes, July 19-20, 1990

Meeting Report

UNOLS Fleet Improvement Committee

July 19-20, 1990; Napa, California

Present were committee members Donn Gorsline, Mark Langseth, Tom

Royer, Bruce Robison; UNOLS Chairman George Keller, UNOLS Execu-

tive Secretary Bill Barbee, Dick West (NSF), Al Sutherland

(DPP/OPS) were present ex officio and as observers; Sheri Pappas

Agenda The meeting notes of the previous meeting in San Antonio

were reviewed and accepted.

Reports Received

Gorsline distributed a copy of the NOAA Phase I draft

report on the NOAA fleet review. He also distributed for review, a

letter and report from June Keller (ONR) which she received from

the Society of Naval Architects and Marine Engineers. These were

for information and no committee action is presently required.

New Coast Guard Admeasurement Regulations

Barbee reviewed the new Coast Guard admeasurement

regulations as they may impact the UNOLS fleet. He noted that all

UNOLS ships will be grandfathered until 1994 provided no major

changes are made in any given vessel. The regulations effectively

move the previous 300 ton limit to 1000 tons and substitute new

formulas for calculation of the regulated tonnages. Calculations

of representative ships show that the effects are likely to be

minimal. UNOLS will continue to watch developments. The largest

vessels would be over the minimum anyway under both old and new

formulas. A letter will be sent by Gorsline to the Intermediate

Vessel group for their consideration of mid-life refit conditions

for the OCEANUS class ships.

OCEANUS-class Mid-life modification study

The study of mid-life refits for the OCEANUS-class is

being funded by NSF and the group will be the class operators,

plus some additional individual scientists. Joe Coburn (WHOI) is

contact. Committee selected Jack Bash, incoming UNOLS Executive

Secretary, as the FIC contact for oversight. Gorsline will write

to both Coburn and Bash. Work should be well along by early 1991;

progress will be reviewed at the October FIC meeting in WHOI.

Concept Design Study - Intermediate Arctic Ice-Capable Vessel

Tom Royer reviewed the progress and noted that the

requested support from NSF is to be awarded in late July. Univer-

sity of Alaska waived overhead and will pass through funds to

Glosten Associates for the work. The proposed funds for committee

1

and oversight travel for Royer to be sought from the Alaskan

Science and Technology Foundation were declined. FIC will try to

provide some assistance from the remainder of the FIC funds at

TAMU. Work is projected to be done in about 9 months from date of

award.

Royer also noted that an agreement has been signed be-

tween University of Alaska, SIO and the Canadian Institute of

File in  
FIC  
Comp. 1990