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Extending the Internet to the Oceanographic Fleet

RVTEC Meeting - Oct. 24, 2001



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SeaNet Partners

- **WHOI** - Andrew Maffei, Steve Lerner, Laura, Goepfert, Scott McCue, Cindy Sellers
- **LDEO** - Dale Chayes, Richard Perry, Dan Weiss
- **Geo-Prose** - Ellen Kappel, Jennifer Ramarui

October 24, 2001

SeaNet



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Current Status

- Laura Goepfert joined Summer 2001
- SeaNet installed on six vessels (Atlantis, Ewing, Melville, Pelican, Seward Johnson, and Knorr)
- One portable system available (currently on Revelle)
- Future installs planned for Endeavor, Jason2, and other interested operators
- Operations and support continues thanks to NSF
- Email now available
- Video-conferencing tested and supported
- Smaller Notebook configuration now being deployed

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SeaNet



2000 SeaNet BHSD Usage Summary per Ship

SCN	Entries	Int	Batch	Elapsed	Bytes
ATL-SCN	803	26	777	46:23:29	339 MB
EWI-SCN	123	37	86	06:24:33	34 MB
KNR-SCN	383	18	365	09:54:53	61 MB
MEL-SCN	131	2	129	15:16:17	141 MB
PEL-SCN	207	89	118	09:54:53	61 MB
SEW-SCN	828	2	826	23:03:12	51 MB
Total:	2475 Transmissions,174 Interactive,2301 Batch, 687 MB				

2001 YTD as of 10/23/2001 SeaNet BHSD Usage Summary per Ship

SCN	Entries	Int	Batch	Elapsed	Bytes
ATL-SCN	285	2	283	12:54:46	186 MB
EWI-SCN	166	42	124	04:58:20	29 MB
KNR-SCN	1010	44	966	31:37:35	419 MB
LUG-SCN	391	23	368	21:08:59	244 MB
MEL-SCN	???	?	???	??:??:??	???
PEL-SCN	55	32	23	02:53:34	15 MB
SEW-SCN	251	9	242	06:12:12	23 MB
Total:	2158 Transmissions,154 Interactive,2006 Batch, 916 MB				

Note: Bytes listed in the above tables are the actual compressed data bytes transferred over the Inmarsat BHSD communication link. The number of bytes of user-level data transferred (uncompressed) would be considerably higher.

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SeaNet Cmail

- Available as upgrade to SeaNet SCN Software
- Adaptation of WHOI cmail package
- Web interface to administrative functions and billing
- Per-user accounting supported
- IMAP/POP/Pine email clients
- Send email to seanet-support@seanet.int for more info

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Examples of SeaNet Science Use

- Email
- Craig Cary (Website, live teleconferencing, educational/outreach)*
- Monty Graham (Video, website)
- ONR and NOAA (ship-shore remote modeling)
- Fornari and others (Dive Discover)
- Send email to seanet-support@seanet.int for more info

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SeaNet Videoconferencing

- Have tested Scotty and NetMeeting over NERA-B System. Plans to test two more (KlasHopper and Livewire)
- Also looking at commercial products that might replace the SeaNet Communications Node (SCN) system but no obvious candidates yet.
- Immediate plans to continue testing of NetMeeting with LUMCON.
- Others interested should contact seanet-support@seanet.int.

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SeaNet



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Future Plans

- Ship installations as requested
- Continue encouraging science use of SeaNet on SeaNet-supported vessels and assist operators with SeaNet operations
- Keep an eye on Iridium and other wireless technologies
- Submit 3-year proposal to NSF for ongoing operations.

1999 SeaNet BHSD Usage Summary per Ship

SCN	Entries	Int	Batch	Elapsed	Bytes
ATL-SCN	223	7	216	08:38:16	81.4MB
EWI-SCN	202	43	159	17:25:03	125.4MB
MEL-SCN	20	4	16	00:34:40	6.0MB
PEL-SCN	202	34	168	07:54:44	61.6MB
SEW-SCN	326	9	317	07:13:48	22.2MB
Total:	973 Transmissions, 97 Interactive, 876 Batch, 296.6MB				

2000 YTD as of 05/30/2000 SeaNet BHSD Usage Summary per Ship

SCN	Entries	Int	Batch	Elapsed	Bytes
ATL-SCN	396	24	372	21:22:48	227.7MB
EWI-SCN	108	31	77	05:39:00	30.5MB
MEL-SCN	129	2	127	15:13:21	140.3MB
PEL-SCN	167	77	90	07:46:10	48.6MB
SEW-SCN	823	1	822	22:56:20	50.0MB
KNR-SCN	53	9	44	00:58:14	3.9MB
Total:	1676 Transmissions, 144 Interactive, 1532 Batch, 501.0MB				

Note: Bytes listed in the above tables are the actual compressed data bytes transferred over the Inmarsat BHSD communication link. The number of bytes of user-level data transferred (uncompressed) would be considerably higher.