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# SeaNet



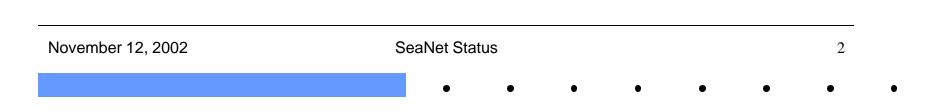
Extending the Internet to the Oceanographic Fleet

RVTEC Meeting - Nov. 12, 2002

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## SeaNet Partners

- WHOI Andrew Maffei, Steve Lerner, Laura, Goepfert, Scott McCue
- LDEO Dale Chayes, Richard Perry, Val Schmidt
- Geo-Prose Ellen Kappel, Jennifer Ramarui



### **Current Status - Installations**

- 9 SeaNet Systems deployed (Atlantis, Ewing, Melville, Pelican, Seward Johnson, Knorr, Endeavor, Jason II, portable)
- Integrated newer T&T Fleet F77 equipment for ISDN use with SeaNet with Jason II Keck funding.
- Notebook based SCN is now standard for new installs
- LDEO is exploring use of Fleet F77 "always on" service with SeaNet systems
- Planning installation of portable system(NERA-B and SCN) on R/V Seward Johnson II in Jan 2003 for 6 months
- Planning installation of SeaNet on R/V Alpha Helix (already has NERA-B)

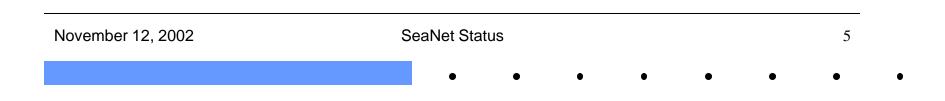
November 12, 2002	SeaNet Status	3
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SHIP/YEAR	1999	2000	2001	2002	Total
				(9/2002)	(Mbytes)
Atlantis	22/228/250	26/777/803	3/547/550	44/502/546	
	10:27:17	2:2:50:29	1:2:17:24	1:10:38:37	
	83087	338768	310926	504752	1,237.5
Ewing	62/182/244	37/86/123	42/124/166		
	19:10:34	07:04:33	05:51:40	N/A	
	128354	24820	27635		180
Knorr	0	18/365/383	44/533/577	3/712/715	
	0	11:26:33	1:6:08:39	1:01:11:07	
	0	586514	460151	117305	1,164.0
Portable	0	0	23/564/587	0/144/144	
System	0	0	1:3:37:32	03:56:18	
	0	0	260263	24696	285.0
Melville	7/34/41	2/129/131	0/52/52	2/688/690	
	46:44	15:59:57	01:53:36	22:45:26	
	6484	140607	7348	107771	262.2
Pelican	41/169/210	89/118/207	82/45/127	11/50/61	
	9:21:05	11:03:53	11:28:50	4:18:17	
	63471	61302	120523	53143	298.4
Seward	12/401/413	2/826/828	9/247/256	4/244/248	
Johnson	12:30:25	1:3:38:52	07:42:30	09:31:00	
	22323	50875	22734	105874	201.8
	144/1014/1158	174/2301/2475	203/2112/2315	64/2340/2404	
Total	2:04:16:05	5:04:04:17	4:15:00:11	4:04:20:45	
	303,719	1,202,886	1,209,580	913,541	3,629.7

Top line in each cell is # interactivecalls, # batch calls, total calls Midle line in each cell is total connect time Days:Hours:Minutes:Seconds Bottom line in each cell is total mumber of kilobytes transferred

## Examples of SeaNet Science Use

- Email (still a major daily use of system)
- Ocean Explorer (Craig McLean NOAA)
- DiveDiscover (Dan Fornari WHOI)
- Extreme 2002 (Craig Cary U of Deleware)
- Jason II Sea Trials
- Send email to <a href="mailto:seanet-support@seanet.int">seanet-support@seanet.int</a> for more info



#### Current Status - SeaNet Cmail

- Cmail application is a standard part of newer SeaNet distributions
- Cmail currently being used by Seward Johnson, Melville, Atlantis, Knorr. Pelican soon.
- Send email to <u>seanet-support@seanet.int</u> for more info.

## INMARSAT-B v.s. Fleet F77

- Capabilities: voice, Fax, BLSD, BHSD (64 kbps), Distress
- Advantages: proven track record w shipboard PBX and SeaNet, good voice quality
- Disadvantages: no MPDS service
- Capabilities: voice (low quality/low cost, high quality/high cost), audio channel, HSD (64kbps), MPDS (mobile packet data service), Distress(GMDSS)
- Advantages: smaller and lighter antenna, easy integration, MPDS, lower purchase cost, compatible with future upgrades, priority call capability, built-in GPS & heading
- Disadvantages: lower quality voice, no fax, cost of HSD?, Voice call routing from shore?

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SeaNet Status

#### SeaNet Videoconferencing

- Low bandwidth videoconferencing over TCP/IP demonstrated at Washington AGU and NSF during DiveDiscover cruise.
- Others interested should contact: seanet-support@seanet.int

## Future Plans

- Continue ongoing operations via upcoming proposal to NSF (WHOI)
- New communications technologies research and testing (LDEO)
- Replace original SeaNet equipment with smaller notebook computer based system
- Provide ongoing support and advice to UNOLS community on wireless communications for vessels.

