

Revised 3/9/04

UNOLS 2004 Ship Scheduling Meeting July 23-24, 2003

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The UNOLS Scheduling meeting took place at The National Science Foundation, in Arlington, VA on July 23 from 0830 – 1900 and on July 24 from 0830 – 1200.

In addition to the ship scheduling deliberations, presentations were made regarding MMPA and ESA permitting by NMFS personnel, a lunch time presentation was made regarding the Regional Class Research Vessel planning effort ([Attendees](#)). Security issues were discussed. Plans, equipment and software for the new UNOLS Scheduling, facility request data information unit development were discussed. Lastly, nominations were made for new SSC Chair and Vice-Chair. Scripps schedulers Liz Brenner and Rose Dufour were nominated for Chair and WHOI scheduler Jon Alberts was nominated for Vice-Chair. Vote will be by email because many schedulers had left or were not present at the meeting such that a quorum was not available. If elected Liz and Rose will job share the Chair position in the same efficient way that they job share their scheduling chores. They still only get one vote on the UNOLS council.

The following notes refer to the individual ship schedules presented in the Letters of Intent:

ALPHA HELIX

Cowen is funded. Kingston still pending. Kotlarov and Konar won't go until 2005 and both are pending. Kotlarov proposal number is OCE-0340510. Konar is DEB, number not given. Use J. Grebmeier's name and proposal number OPP-0125082 for Aagaard's cruises. Weingartner ship funding should be split between NOAA and NSF. Hunt is funded.

CLIFFORD BARNES

Some of the THOMPSON UW education cruises may end up on BARNES. Murray (OCE-0221714) is a decline. Some additional State cruises may show up. All requests are covered. There may be some carry forward requested for Frost. Total days without Murray is 79.

BLUE HERON

McKay is funded. A very conservative schedule, totaling 13 days. More days to come, according to Doug Ricketts.

CAPE HATTERAS

Byrne's Apex predators cruise is double booked with LONGHORN. PI will make decision on which

vessel he will use. Fleming, if funded, may have one cruise with Harbor Branch and two on CAPE HATTERAS. Jeff Weissel is requesting two extra days on his cruise. Include transits on next edition.

CAPE HENLOPEN

Yang, Boyd, Goff (all Navy) are still pending. Sharp (NSF OCE-0327629) declined. Sharp (NOAA) funding status not known. Gawarkiewicz, NSF funded for 14 days to be included in schedule.

LONGHORN

Byrne double booked with CAPE HATTERAS. PI will make decision.

PELICAN

PUT STR LINKS ON LETTERS OF INTENT WHEN AVAILABLE!! Is Singer SAIC double booked with LONGHORN? Check with Fredericq on # of science and transit days requested; verify which cruise, how many science days, how many port days are involved. Is this the 2003 cruise deferred into 2004? Thorsos appears to be a two-ship op with HBOI ships. Cruises should be coordinated with PI and operators.

POINT SUR

Dickey MoSEA is funded. Boyd is still pending. Bruland cruise has to be coordinated with Hickey's cruise which is simultaneous with a WECOMA cruise. This becomes more important with WECOMA's schedule becoming more complex. CalCOFI (NOAA) cruise for Collins is still pending. Some or all of Collins' Hoke Seamount and Mexico cruises may need to go on NEW HORIZON?

SAVANNAH

NOAA and NASA days are still pending. Okay to add transit day to each of Sautter's NSF cruises. All NSF cruises are funded.

SPROUL

Hildebrand not funded for 20 day Navy Marine Mammal cruise. Is funded for 4 days on SPROUL (and 20 days on NEW HORIZON). Hildebrand California Current request is still pending. Kuperman funded through science and not through ONR. Pineda has a total of 18 days. No carry forwards from any past years. Babcock # is 9907905.

URRACA

Glynn funded, but for a total of 15 days only.

WALTON SMITH

Bowen is funded but should remain as pending because of coordination problems for two-ship ops and Navy asset use. Visscher has moved from 2003 to 2004 (7 days) and from 2005 to 2006 (7 days). Proposal number is EAR 0311929 and STR number is 20021125110634WX.

WEATHERBIRD II

Knap has a total of 90 days. McGillicuddy needs two cruises, not one in 2004. Both have to be coordinated with OCEANUS schedule.

GYRE

Santschi and Zhang NSF projects are both declines. DiMarco's NOAA cruise is funded. Benfield's NOAA project is declined. Bowen, Navy two-ship ops with WALTON SMITH is not on schedule and should be added.

ENDEAVOR

Vernon (also booked on both HBOI ships), can't have OBS's before March. Clearance request needs to

be submitted right away. May be able to switch Vernon and Cutter and resolve this. Benetti is a decline. Detrick needs two transit days added on. Webb's seismic station is funded. Pickart is ok with ENDEAVOR if icebreaker is not available. If Pickart goes on an icebreaker it will cause a large transit for Frye.

NEW HORIZON

Hildebrand (Feb Marine Mammal - Navy) funded. Will need 2-5 transit days. Hildebrand (Jul Predictive Modeling - Navy) will not be funded by ONR; may be funded by other Navy program or by NOAA (Venrick). Stein still pending. Sessions may need Jumbo Piston Core, so might not work off NEW HORIZON. Creates problem for JPC and large ship scheduling. Need discussion with Sessions to determine actual requirements and whether or not an intermediate ship will work. Prah Mexico cruise should be investigated to see if it can be combined with others – perhaps the Collins cruise (see PT SUR). Babcock is funded. Smith's August cruise needs coordination with large vessel. Fall CalCOFI (Venrick or Hildebrand) funding still not settled. Torres Mexico cruise probably can't be combined with other Mexican cruises. Ken Smith cruise to H2O to be coordinated with Smith/Chave cruise on REVELLE. Investigate other larger ship cruises besides Sessions for scheduling on NEW HORIZON, such as Saltzman, Mike Greg or Baggeroer.

OCEANUS

McGillicuddy's NOAA cruise should be 11 days (?) McGillicuddy's NSF cruises need to be coordinated with WEATHERBIRD II. Has room for work in Oct-Dec time frame.

SEWARD JOHNSON

Christeson cruise is a two-ship op with EWING. OBS's are available. Vernon cruise too early. McLean still pending; decision due by fall. Thorsos is a two-ship operation with PELICAN.

SEWARD JOHNSON II

Thompson proposal # BES 0330220 is still pending. Vernon cruise on SJII is in good time slot but double booked with ENDEAVOR. Clearance request needs to be submitted right away. Widder a plus up, funded through science program - six days? Is a transit day needed? Pomponi is pending and a decision is due in late fall. Need to check with Fisher on number of science days needed, also for 2005. Fisher needs OE funding for submersible. T. Frank is pending. If funding is approved, she can go in 2004.

Youngbluth's Gulf of Maine work deferred from 2003. Has Fleming 3rd cruise here. CAPE HATTERAS has all Fleming cruises. Will coordinate if Fleming gets funded. Need to confirm number of days for Owsley.

WECOMA

Hickey ECOHAB will go on WECOMA. Program Managers should make it clear whether or not this project will be approved for larger ships in the future. Hickey's CoOp cruise needs to be coordinated with POINT SUR. Keil is a two-ship operation with BARNES. There are many changes in the first half of CY. Taylor OBS recovery will go on WECOMA in two legs. Other potential cruises to be considered – Can Saltzman be scheduled on WECOMA? Can the Mercer/Baggeroer coordination utilize WECOMA and a large ship? Can Mike Gregg's NSF project be scheduled on a smaller ship (WECOMA, NEW HORIZON or KILO MOANA ?)

A report was made by NOAA/NMFS representatives of the Office of Protected Resources, Ken Hollingshead, Mi Ae Kim and Roger Gentry; regarding permitting under the Marine Mammals Protection Act (MMPA) and the Endangered Species Act (ESA). The criteria for determining whether or not a permit application or consultation should take place was reviewed, followed by a review of those cruises that involved active seismic surveys.

Large Ships – (Includes KILO MOANA which is not a Class I ship, but has a schedule that is interconnected with the Class I ships in the Pacific.)

EWING: Schedule stands on its own for the most part with the exception of OBS availability and an early in the year two-ship operation with SEWARD JOHNSON. Permitting for seismic work is a major factor in the EWING schedule. Schedule starts in the Gulf of Mexico and then potentially goes to Alaska to cover two seismic cruises (Andronicos and Christeson) While there, EWING may be able to cover one or more non-MCS cruises. Yogodzinski requires dredging, mapping and SCS in the Aleutians during a three month weather window (June – Aug) and it might be acceptable for EWING to do this cruise. Otherwise it would be deferred. P. Stabeno has two cruises, in the western Gulf of Alaska, one in May and one in September/October. EWING has done these cruises in the past, but timing and the impact on scheduling subsequent cruises may not allow EWING to cover both. Depending on how much of the Alaska work EWING does, the schedule could become very full and the McGuire or Fulthorpe cruise would have to start in early 2005. McGuire has to be scheduled around OBS and OBS personnel availability. There is also a potential for additional work in the Gulf of Mexico, which would affect the timing of arrival in Alaska and eliminate the possibility of covering Stabeno's early cruise and probably Yogodzinski.

ATLANTIS: Decision was made to defer Karson and move Pockalny to THOMPSON. Start ATLANTIS/ALVIN schedule on the NEPR followed by Coast Guard inspection and maintenance period in San Diego starting in mid to late April. Late spring through the end of September would take place in the PNW and Alaskan waters with an ABE cruise for McDuff, and Ocean Exploration cruise with ALVIN in the Gulf of Alaska, two buoy deployment cruises for Detrick and several ALVIN cruises on the JDF. These would be followed by a Cary, et al cruise on the NEPR. This schedule is still somewhat light with a hole in May and at the end of the year. What about doing the Weller buoy recovery from ATLANTIS?

KILO MOANA: Starts the year around Hawaii with Buesseler test cruise and overhaul/upgrade work. After covering a Paul Verdugo cruise, they would deploy to Lau Basin for 1st in the series of four Lau Basin Ridge 2000 cruises for Martinez using DSL 120. DSL 120 would be delivered to Suva by THOMPSON after Pockalny; enroute from Easter Island to Guam. The remainder of the KILO MOANA schedule is still somewhat uncertain, except that we are counting on using KM for the Wells cruise which is a two- ship operation with a Japanese R/V and must take place from July 15 through mid August. KILO MOANA would also cover the 2nd Lau Basin cruise at a time not to interfere with Wells and when ABE was available. Other cruises for the KILO MOANA schedule include a second Buesseler cruise, potentially a cruise for Saltzman and a two- ship operation for Baggeroer, which must be coordinated with a Mercer cruise on MELVILLE. KM would cover HOTS cruises when possible.

MELVILLE: Start the year with Fly River, PNG work for Nittrouer et al, Driscoll and Droxler, ending around May 30. Next would be a trip to New Zealand to cover a cruise for Kuehl and then return to Japan to start the Swift CLIVAR transect to San Diego. The year would finish with the Mercer two-ship operation and an OBS deployment for Laske in Hawaii.

REVELLE: Starts the year off Central America and Mexico with cruises for Gee, Constable and Lonsdale. A cruise for Worcester off Hawaii takes place as a predecessor to the Mercer/Baggeroer cruises later in the year. Next, REVELLE takes on the JASON II (shipped from Guam) to cover the Wheat (NURP) project in the Aleutians, followed by a joint Chave/Smith cruise at H2O. The JASON II comes off briefly to cover the Hildebrand Geodesy cruise off Hawaii. REVELLE finishes the year by covering cruises 3 & 4 of the Lau Basin work for Meg Tivey and Jim Childress, followed by Vrijenhoek and Bach before shipping the JASON II off. Early 2005 work could include the deferred Pinkel cruise, followed by Watts' 2005 cruise.

THOMPSON: Starts the year with Pockalny ROV work on the SEPR, transits to Guam for Embley/Urabe ROV work if approved, dropping off the DSL 120 enroute. Alternatives to the Guam work would be Bach in PNG or the Gregg work off Hawaii. Next would be the Watts work off of Japan, followed by a transit to Hawaii to pick up the Ken Johnson SAFE cruise enroute to Portland. Arrival at Portland has to be on or about 19 July for the Navy funded Weingart ARDENT cruise in the Gulf of Alaska. Also, vans, winches and scientists need to get from THOMPSON to Japan for the start of the Swift/CLIVAR cruise. After Weingart, THOMPSON would conduct a UW funded ROPOS cruise and then a ROPOS cruise for Embley on the JDF. Alternatives would be to conduct Mix's coring cruise in the Gulf of Alaska, which would require seismic permitting. The year would end by going south to conduct a DSL 120 cruise for Rachel Haymon and carry out a student cruise near the Galapagos Islands. An alternative would be to conduct a David Nelson cruise near Hawaii.

KNORR: Will conduct coring cruises for Keigwin (2), Norris and Holbrook. Also scheduled are a northern cruise for Craig Lee and two cruises on the MAR. The MAR cruises are for Reves-Sohn and Maurice Tivey, both of which need an ROV. Availability of an ROV is an issue and an attempt to employ the UK ISIS system will be pursued. M. Tivey also needs ABE which must be scheduled in coordination with Langmuir and McDuff. The KNORR schedule is somewhat light and could cover other work if necessary.

A tentative timeline for these vessels is attached as a PDF file as is a timeline for the submersible assets. Keep in mind that these are based on some preliminary planning and many unanswered questions must be dealt with before they can be finalized.

Most of the scheduling problems fell in this class. Problems arose primarily because of deferrals from 2003, ROV/Asset availability (and manpower), and timing/weather windows. With input from program managers and hours of scheduling "what ifs" using project management software, the following is a listing of problem cruises and where they fall in the scheduling spectrum.

SCHEDULED, BUT NOT AS REQUESTED

***** Moved to, or candidates to be moved to Intermediate vessels *****

Barbara Hickey - ECOHAB <http://www.gso.uri.edu/cgi-bin/fv.cgi?2002010814035178>

Requested THOMPSON for two 21 day cruises in July and then Sept of 2003, 2004 & 2005, Intermediate ship only authorized, scheduled on WECOMA in 2003 and 2004. PI not happy about this and may delay a year in an effort to get a larger ship. Conflicts with high demand for large ships on the JDF and other weather dependent areas.

Alex Sessions - GEO 0311824 Collaborative Research: Hydrogen Isotope Biogeochemistry of Anoxic Environments

<http://www.gso.uri.edu/cgi-bin/fv.cgi?20021104211633Z>

Requested REVELLE, Directed by program manager to be scheduled on an Intermediate. Needs coring equipment. Scheduled on NEW HORIZON

Keil, Richard G. 0099287 Interactions between organic matter and minerals in marine sediments

<http://www.gso.uri.edu/cgi-bin/fv.cgi?2000081111022479>

Requested THOMPSON for two-ship ops with BARNES. Deferred one year. Now scheduled on WECOMA and BARNES. This is apparently ok with PI.

Benitez-Nelson, Claudia R. 0241645 Collaborative Research: Influences of cyclonic eddy activity on planktonic food web dynamics and carbon export in the lee of Hawaii <http://www.gso.uri.edu/cgi->

bin/fv.cgi?20020813112339IJ

Request is for KOK. Originally requested 2003/2004. Deferred a year due to timing of funding/panel. Listed here because scheduling is not certain and could be a candidate for other ships of opportunity. Narrow timing window in early to mid November.

Taylor, Brian 0001798 US-Japan Collaborative Research: Multi-scale seismic imaging of the Mariana Subduction Factory

<http://www.gso.uri.edu/cgi-bin/fv.cgi?2000011523085537>

Requests Large ship near Guam/Saipan to recover OBS deployed in June 03. Time window acceptable to PI's is narrow and there is a little difference between PI's and OSBIP group. Desires mid May to mid June. Starting as early as Apr 26 and ending as late as July 9th is acceptable. Was on MELVILLE LOI from June 12 to July 9 which is later than desired due to battery life and possibility of Monsoons. Scheduling earlier is possible on THOMPSON but it would be an April 1 or so start date in order to start and finish Watts in time to get back to PNW. Decision to use MELVILLE for Kuehl cruise and cover this project with WECOMA during desired dates with a two leg, slightly longer cruise.

Saltzman, Eric S. 0221472 Degradation of methyl bromide and methyl chloride in the oceans
<http://www.gso.uri.edu/cgi-bin/fv.cgi?2002021512423089>

Might do this cruise on the way back from Guam on WECOMA or from NEW HORIZON as a triangle from Hawaii or on KILO MOANA.

*****Complicated or influenced by submersible assets*****

Haymon, Rachel <http://www.gso.uri.edu/cgi-bin/fv.cgi?20020821195630PD>

Not scheduled seriously until later in the year, availability of DSL 120 and then ship are issues. She would like to go earlier in the year. Shown tentatively on several LOIs, primarily THOMPSON. This should be ok.

Tivey, Maurice A. 0118445 Magnetic and Structural Study of Sub-volcanic Ocean Lithosphere Exposed in Kane Megamullion, Mid-Atlantic Ridge <http://www.gso.uri.edu/cgi-bin/fv.cgi?2001022109040123>

Shown on KNORR LOI, but we will need to identify an ROV asset and work out the ABE schedule for it to work where scheduled. ABE schedule impacts Langmuir and/or McDuff schedules. ROV schedule conflicts with many. ISIS ROV could solve that part of the puzzle.

Sohn, Robert A 0137329 Seismicity, Structure, and Fluid Flow of the TAG Hydrothermal System

<http://www.gso.uri.edu/cgi-bin/fv.cgi?2001081314022742>

Similar problems to Tivey, but doesn't need ABE. Prefers ALVIN, but could use JASON II or ISIS. OBS pickup needs to happen before the end of March. Other equipment could stay longer, scheduling of ROV asset biggest problem. OBS could be picked up on separate cruise with an intermediate size vessel if the weather cooperates.

Embley and Urabe - Ring of Fire

<http://www.gso.uri.edu/cgi-bin/fv.cgi?20030206185829ID>

<http://www.gso.uri.edu/cgi-bin/fv.cgi?20020606050210FH>

Needs large ship and ROV near Guam, early in year. Availability of ROV biggest issue. Could be done from THOMPSON if they keep JASON II onboard and don't do other projects before Watts. Shown on THOMPSON LOI's.

*****Scheduled. But complicated by other cruises that may cause them problems*****

Verdugo, Pedro BES-0120579 Biogeochemistry and Polymer Physics of Seawater Gels: A New Paradigm for the Microbial Loop and Global Element Cycles <http://www.gso.uri.edu/cgi-bin/fv.cgi?>

2001032214273691

Requested KILO MOANA in March 2004, 6 people in science party, On KM LOI but would conflict with an early deployment to Lau Basin unless it can move into February or if Martinez is not started until mid March, which may be ok.

Buesseler, Ken OCE-0301139 VERTIGO <http://www.gso.uri.edu/cgi-bin/fv.cgi?20020912112838SZ>
Requests KILO MOANA for test cruise and then early summer (June) cruises in 2004 & 2005. On KILO MOANA LOI, but would not be possible to do this and the Lau Basin, Saltzman and Wells cruises in the same time frame. 3 vans and 26 scientists make this difficult for an intermediate. If Langmuir cruise is done from another ship or is done after Wells or if Saltzman is done from another ship, it may be possible to schedule this cruise on KILO MOANA more or less as requested.

McGuire, Jeffrey J. 0242117 Oceanic Transform Faulting: Foreshocks, Seismic, and Aseismic Slip on the Quebrada, Discovery, and Gofar transforms <http://www.gso.uri.edu/cgi-bin/fv.cgi?20020807202644JG>
Needs EWING and deploys OBS from LDEO. Availability of OBS (recovered during Taylor/Wiens) cruise will dictate earliest time for scheduling this cruise.

Kuehl, Steven A. 0326831 Sediment Dispersal off a High-Yield River: Observations and Modeling of Gravity-Driven Transport and Deposition <http://www.gso.uri.edu/cgi-bin/fv.cgi?20030205111305HW>
Needs a large ship off the East coast of New Zealand's North Island for two cruises, one in June and one in September. Part of a time series, so probably hard to delay, but also not near any other projects at that time of year. Not scheduled seriously by anyone prior to scheduling meeting. Decision was made by NSF to schedule the June cruise for this project on MELVILLE in lieu of Taylor OBS pickup, which will be covered by WECOMA. September cruise will be covered by local assets.

NOT REALLY SCHEDULED BY ANYONE

Mix, Alan C. 0242084 Collaborate Research: Developing a paleoceanographic and paleoclimatic record from the fjords and continental margin of Southeast Alaska <http://www.gso.uri.edu/cgi-bin/fv.cgi?20020815190454ZO>
Needs to be scheduled in August to September (maybe early October) to avoid marine mammal rookeries and weather limitations. Seismics and OSU Coring group. Needs large ship with Dynamic positioning. Not on any LOI that I can find.

Gregg, Michael C. <http://www.gso.uri.edu/cgi-bin/fv.cgi?20021115190122BH>
Requests REVELLE. Just funded, needs sonar well for own system, could use THOMPSON with shipyard work. Requests early part of the year. Not on any LOI. Could be deferred, scheduled in lieu of Guam work or Bach on THOMPSON (long transit backup) or investigate WECOMA, NEW HORIZON or KILO MOANA.

Nelson, David M. 0322074 Plankton Dynamics and Carbon Cycling in the Equatorial Pacific Ocean: Control by Fe, Si and Grazing <http://www.gso.uri.edu/cgi-bin/fv.cgi?20030204124849LH>
Requests THOMPSON in any Oct/Nov, south of Hawaii. Not on any LOI. Candidate for deferral.

Vrijenhoek, Robert C. 0241613 Gene Flow and Species Diversity in Deep-Sea Hydrothermal Vent Communities
<http://www.gso.uri.edu/cgi-bin/fv.cgi?20020815131223XQ>
<http://www.gso.uri.edu/cgi-bin/fv.cgi?20020815132254TP>
Needs ALVIN or JASON II for two cruises, one on the SEPR and one in the Lau Basin. SEPR being

considered for 2005 expedition, Lau Basin could be picked up when JASON II is there for other work either early in the year or late in the year, or early next year. Early in the year might not be desirable, because the area will be mapped in the spring of 2004 with DSL 120 and ABE and JASON II work would be more effective after that mapping. Currently on the REVELLE LOI after other Lau Basin ROV work in late December – early January 05.

Weller, Robert <http://www.gso.uri.edu/cgi-bin/fv.cgi?1999061413335859>

NOAA Buoy turnaround in October off South America. No one nearby, trying to determine if this will be scheduled on a NOAA vessel (BROWN?) or investigate use of ENDEAVOR.

HOTS cruises

<http://www.gso.uri.edu/cgi-bin/fv.cgi?20030213112013MA>

Need 5 day cruise every month.

Stabeno, Phyllis NOAA FOCI work in the Bering Sea

<http://www.gso.uri.edu/cgi-bin/fv.cgi?20030206171943ED>

Two cruises, one in Apr - June on EWING schedule. Second cruise in Mid Sept - October, not scheduled. Needs a large ship. These two cruises may not work on any schedule and at the moment only the EWING is a potential option. HEALY or an Intermediate might work for the later cruise.

Detrick, Robert 0215670 Development and Testing of a Deep Water, Acoustically-Linked, Moored-Buoy Seafloor Observatory <http://www.gso.uri.edu/cgi-bin/fv.cgi?2002011010454785>

Two cruises requesting THOMPSON to deploy OBS and Buoy in the JDF area. Other projects are tied to this buoy deployment. Consider these cruises for the ATLANTIS.

Bach, Wolfgang 0327448 Hydrothermal Systems in the Eastern Manus Basin: Fluid Chemistry and Magnetic Structure as Guides to Subseafloor Processes <http://www.gso.uri.edu/cgi-bin/fv.cgi?20030212155249XJ>

Request for THOMPSON and JASON II. Could be scheduled that way in early 2004 after a Pockalny cruise on THOMPSON as an alternative to the Embley/Urabe Ring of Fire work. This would add to the NSF costs. Otherwise this cruise could be conducted after the Lau Basin ROV work in early 2005 if it did not conflict with a schedule for Karson et al on the SEPR. Candidate for deferral.

MAY BE CANDIDATES FOR DEFERRAL TO 2005

Talley, Lynne D. 0327544 Antarctic Intermediate Water formation in the southeast Pacific

<http://www.gso.uri.edu/cgi-bin/fv.cgi?20030126185242QH>

Needs southern ocean in late austral winter. Potential for scheduling on GOULD or PALMER, but needs 38 khz ADCP to be installed. This will not happen in time for a 2004 cruise and perhaps not even a 2005 cruise. Will need to be deferred for potential 2005 UNOLS or OPP cruise. Will require a follow-up cruise six months later.

Vrijenhoek, Robert C 0241613 Gene Flow and Species Diversity in Deep-Sea Hydrothermal Vent Communities

<http://www.gso.uri.edu/cgi-bin/fv.cgi?20020815131223XQ>

<http://www.gso.uri.edu/cgi-bin/fv.cgi?20020815132254TP>

See notes above

Pinkel, Rob <http://www.gso.uri.edu/cgi-bin/fv.cgi?20030508145623ZG>

Needs Pinkel Sonar, western pacific. Could follow after Lau Basin Jason II work if that is done with

REVELLE.

Gaherty, James <http://www.gso.uri.edu/cgi-bin/fv.cgi?20021021100706HN>
OBS cruise, OBSIP driving schedule: Requested 16 sci. days plus transit on Medium vessel. Despite STR, he will not need seismics. Would like DP and multibeam, therefore medium vessel may not be suitable, but may be acceptable instead of being deferred. Results from OSBIP meeting: "OBS's will not be available until Dec 04-Jan 05" per S. Webb.

Steckler, Michael OCE 0328119 <http://www.gso.uri.edu/cgi-bin/fv.cgi?20030219002133DO>
Hi Res MCS M. Marmara Sea

Duenebier, Fred <http://www.gso.uri.edu/cgi-bin/fv.cgi?2002012218552457>
Deferred at his request, Hawaii

Silver, Eli <http://www.gso.uri.edu/cgi-bin/fv.cgi?20030212141655RO>
Might still be possible to schedule this year on KILO MOANA or others.

Karson, Jeffrey <http://www.gso.uri.edu/cgi-bin/fv.cgi?2001120410453165>
Defer to early 2005 as part of an expedition to the SEPR with Vrijenhoek.

Gurnis, Michael OCE 0242078 <http://www.gso.uri.edu/cgi-bin/fv.cgi?20020813171702VV>
OBSIP/MCS South of New Zealand. Long transit for EWING at the end of this year's work.

Lyle, Mitchell <http://www.gso.uri.edu/cgi-bin/fv.cgi?20020726162959MU>
Needs to schedule seismic system and coring group. Too late to get seismic system this year and complete the permitting.

Yogodzinski, Gene 0242585 <http://www.gso.uri.edu/cgi-bin/fv.cgi?2000020711134141>
Hi Res (LDEO Hi Res system or Ewing?) Aleutians NP5. Narrow weather window (June - August), also needs DP for station keeping and dredging work. If this cruise cannot be scheduled during weather window, PI requests deferral to 2005. It may be possible to schedule this in 2004 on the EWING if is acceptable.