

**UNOLS Ship Scheduling Meeting
National Science Foundation –
4201 Wilson Boulevard (Room 1235)
Arlington, VA 22230
July 14, 2009**

Meeting Minutes

Executive Summary

The UNOLS Ship Schedulers met at the National Science Foundation (NSF) in Arlington, VA on July 14, 2009 to review 2010 Letters of Intent (LOI) for operations and identify problem areas. The number of funded ship time requests is low and creating sustainable ship schedules for the Intermediate and Regional Class vessels is a challenge. The Local Class ship schedules are also light, but they have greater potential for adding other work to their schedules. Demand for the Global ships remains high in 2010. The schedulers and agency representatives worked to address multi-ship booking problems and develop strategies for sustainable fleet operations.

Action Items

- Contact PIs whose programs are multi-booked to determine ship preference and rationale. (Schedulers)
- Determine the funding status of all pending requests (Agency Reps)
- Submit LOIs and ship day rates by August 3rd. Fuel price of \$2.50/gallon should be applied. (Schedulers)

Appendices

I	Agenda
II	Participants
III	Ship Utilization Trends Chart
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Meeting Minutes

Welcome to Meeting followed by Introductions - Stan Winslow, Ship Scheduling Committee (SSC) Chair called the meeting to order at 0830 on July 14, 2009. The meeting agenda (*Appendix I*) was followed in the order reported below. Participant introductions were made around the room. See attendance list (*Appendix II*).

Brief Federal Agency Report and Budget Forecast:

NSF Report – Provided by Linda Goad.

National Oceanic and Atmospheric Administration (NOAA) – Allan Hilton introduced his replacement, James Illg, at NOAA/OAR/PMEL.

Office of Naval Research (ONR) - Tim Schnoor reported that the Navy's solicitation for operators of the Ocean Class AGOR has been drafted and will be released soon. Copies of the draft were available at the meeting. Tim has also asked the UNOLS Office to distribute the solicitation. A prospective proposers meeting is planned for July 27th at ONR.

Other ONR news:

- ONR's budget for FY10 is expected to remain level.
- ONR is supporting the cost to repair Melville's propulsion system. The repair is very expensive and funds from this year as well as the FY10 budget will be used.
- The cost of sending oceanographic research programs to sea has been on the rise. In order to remain within budget, ONR program managers are becoming more efficient in planning and scheduling at-sea projects. As a result, the number of ONR ship days is shrinking as compared to past years.
- Mike Prince is now working for ONR at 60% time. He will be assigned to the Ocean Class acquisition project. Mike will have an office at the Naval Post Graduate School CIRPAS facility. Mike will work the remaining 40% of his time for Moss Landing Marine Laboratories.

Review East/Gulf/Great Lake- Locals/Regionals/Intermediates:

Blue Heron – Jon Alberts presented the Blue Heron LOI. The LOI includes 26 funded days and 63 pending days for a total of 89 days. Operations are in Lake Superior.

- Linda reported that the 10 days for Hrabik are declined.
- Sterner (NSF/OCE/CO) is still pending.
- The revised total is 79 days.
-

Atlantic Explorer – Ron Harestad presented the LOI.

- The LOI has a total of 117 funded days.
- There are no pending days.
- All work is NSF funded.
- The schedule is light, but okay.

Savannah – Jon presented the LOI.

- The LOI has 60 funded days, 45 pending, for a total of 105 days.
- Nelson is still pending
- The Hanisak pending NOAA time might be a Sea Grant request. Alan Hilton will check.
- Savidge 26 days is declined.

General Comment – Linda Goad stated that if a ship is privately owned and it has a poor schedule, it is up to the operating institution on whether or not they chose to operate the vessel. The institution will have to let NSF know their plans for 2010 operations.

Pelican: Joe Malbrough presented the LOI.

- There are 147 days funded, 45 pending days for a total of 192.
- Some requests have not been submitted.
- Nancy Rabalais indicated that she might have additional days as well as Diercks. These are probably NOAA funded days. Thomas is also listed as to be submitted.
- Paul's 10 pending days are declined
- Linda asked Joe what *Pelican's* total days will be limited to. Joe stated that the limit is set at 250 days. Linda emphasized that the ship must allow down time for maintenance.

Walton Smith: Richard Kniffin presented the LOI and noted that it has already changed since Friday.

- Kelble days are pending (NOAA)
- Baringer days are pending (NOAA)
- Fleming is on the schedule for 48 days. Linda thinks the total should be 36 days. This needs to be checked.
- Lohrenz is on five ship schedules (*Endeavor, Hatteras, Sharp, Oceanus, and Walton Smith*)
- Rich said that they will only need 3 transit days to get to the Lohrenz site.
 - Linda doesn't think *Walton Smith* is big enough to support the Lohrenz project.
 - Rich – Lohrenz only needs 14 bunks.
 - Joe Ustach said that Lohrenz has a lot of equipment that takes a day to load. Lohrenz is currently working on *Cape Hatteras*. Joe Ustach will contact him to determine which ship he prefers.
 - The number of days that he has been funded for needs to be determined.
- Ledwell is ONR funded and is triple booked (*Oceanus, Walton Smith, and Seward Johnson*)
- Allan Hilton said that the pending NOAA work is OAML projects. They are recurring cruises and will likely be funded. This needs to be confirmed.
- Linda said to remove France from the schedule. NSF/BIO/DEB is very slow in making awards, so for now leave the project of the LOI.
- With the updated information, *Walton Smith's* LOI includes about 130 days.
- There was mention of an ONR Marine Mammal project for Claridge for 38 days. This needs to be checked.

Cape Hatteras – Joe Ustach presented two LOIs; LOI 2 “Greedy” Schedule and LOI 1 Requested Only.

The Greedy LOI includes 81 funded days and 84 pending days for a total of 165 days. Many of the requests are multi-ship booked.

- The Laney pending NOAA days are for a fish study. NOAA has indicated that this will likely be funded.
- The Walcott pending State time will probably be funded.
- Lohrenz is multi-ship booked.

- The Wood days are for NRL and will probably be scheduled in 2010 because their 2009 cruise was cancelled.
- Linda said that Runge should be removed from the LOI. He has not submitted a proposal. Put the Runge STRS in “draft” status.
- Chen is multi-ship booked. The work is off the Hudson River to the plume.
- Crump is declined and should be removed.
- Lohmann would be a challenge to accommodate on *Cape Hatteras*. The request is triple booked (*Oceanus, Endeavor, Hatteras*)
- There are five State days that will get funded annually.

Non-greedy LOI includes 30 funded days, 51 pending days for a total of 81 days. The LOI is for work that requested *Cape Hatteras*. Joe mentioned that he was recently contacted by a contractor to support about 5 days off the Georgia/Florida border.

General Note – Linda instructed the schedulers to contact PIs who are multi-ship booked and ask for their ship preference and rationale.

Hugh R. Sharp – Bill Bryon presented LOI #4.

- Summerfield requested *Sharp* for a total of 12 funded days for 4 cruises. There is another 12 days planned for 2011.
- Kirchman is funded.
- The status of the Wommack’s pending days is unclear? Linda – will check on this.
- McHugh pending days are declined.
- Byrne’s days for scallop studies are funded by NOAA for 40 days.
- Crump pending days are declined.
- UDel is still pursuing pre-construction ship time for wind farm work.
- The Wommack TBS days don’t have an NSF number because it was probably just submitted. Linda will check on this.
- Removing the declined work leaves only about 45 days on the schedule.

Oceanus – Liz Caporelli presented two LOIs; the “*Oceanus* Requests Only” and the “take all.” The *Oceanus* requests only were those STRs that requested *Oceanus*.

- Anderson days are funded
- Ledwell is Navy funded.
- McGillicuddy days are on the schedule earlier than preferred. Mary Lynn commented that he would go to Puerto Rico at the same time as *Atlantic Explorer* so that they could use the time as a validation cruise.
- Montoya would like to be scheduled in the summer.
- There are double and triple bookings on the *Oceanus* schedule.
- Molly Berringer days are listed at “non-op.” She doesn’t think that *Endeavor* and *Oceanus* have enough deck space for her work. Alan Hilton said that this is a NOAA project and she prefers the *Seward Johnson*. She needs to be contacted to determine her work area, number of people, and deck space requirements.
- Townsend is declined

- Lawson's pending days are funded for the Gulf of Maine Krill studies.
- Ziegenfuss Navy days are listed as non-op. Tim Schnoor will check the status. [After the meeting it was determined that these are withdrawn.]
- Checkley days are for the Pacific and still pending.
- Halanych days are listed as non-op because he requires the HBOI submersible. The days are funded.
- Linda Goad commented that combining the LOIs for *Cape Hatteras*, *Sharp*, and *Oceanus* would result in about 75% of a schedule.

Endeavor – Mary Lynn Dickson presented two LOIs; a “Greedy” LOI and an “*Endeavor* only.”

- The total for the “greedy” option is 229 days (funded and pending). If the Halanych (requires sub) and the Toole cruise are removed, the total is reduced to about 200 days.
- Fitzgerald days are funded
- Anderson days (NOAA funded) need to be split up into about 4 cruises
- Toole should be removed from the schedule.
- Lohmann (NSF funded) days need to be scheduled in August
- McGillicuddy's cruise (NSF funded) wants to start Oct 1st.
- Linda Goad suggested that if a Global ship is in the Gulf of Mexico it could take the Montoya days.

The total ship days for the five East Coast ships equals 496 days. Linda said that requests for ship time are very low.

Seward Johnson – Bill Baxley presented the LOI for *Seward Johnson*.

- Pawlik is NSF funded. The cruise was planned for last year, but then was taken off the schedule last year. *Seward Johnson* is preferred because they already have clearances for the work area.
- Lohrenz is multi-ship booked.
- Ledwell days are triple booked.
- Montoya is NSF funded and requested *Seward Johnson*. He needs to be contact to determine if it would be more efficient to schedule his days on a Global ship. He is also funded for days in 2011. The 2011 time probably does not require a clearance. Montoya cannot overlap with Yager (same personnel).
- Yager has requests for two cruises; an Anaconda cruise and a Boca cruise. The Anaconda cruise should be scheduled on a Global. Linda reported that the Boca cruise that is on the *Seward Johnson* LOI is declined. She might resubmit the proposal for the NSF August 15th deadline.

General - Linda Goad said that it appears that there might be enough funded work for one Intermediate ship and one Regional ship to operate in the East in 2010. Linda instructed the schedulers for the *Sharp*, *Oceanus*, *Endeavor*, *Seward Johnson*, and *Cape Hatteras* to develop two generic schedules; one for an Intermediate (ship 1) and one Regional (ship 2). Any special cruise requirements should be noted; such as, time

constraints, people constraints, multibeam, submersible work, etc. After the break, the schedulers can present the schedules.

Break

Identify East Coast Problems and Suggested Resolutions - Jon Alberts reported that the 5 schedulers: Joe Ustach, Mary Lynn Dickson, Liz Caporelli, Bill Baxley, and Bill Bryon met during the break to develop two generic ship schedules.

- The Intermediate Ship schedule that was created includes:
- 231 days x 1.35 (mob/demob/transit factor) = 265 days total.
- The schedule does not include the long Lohmann cruise.
- The Regional Ship schedule includes a total of 134 days.
- The schedules include funded and pending days. These schedules are just strawman efforts to arrange the projects linked by month. They may not be totally feasible as currently constructed.

Review West Coast Ships-Locals/Regional/Intermediates:

Barnes – Dan Schwartz presented the *Barnes* LOI.

- The total days funded (36) is alarmingly low.
- At this time of the year it is not uncommon for *Barnes* to have a light schedule with a potential to add more days later, but this is a very low level.
- UW just gave permission to put together a user group to establish an SMR for a *Barnes* replacement.
- If the *Barnes* schedule does not improve, UW will look at options. One possibility is to group all of the funded time and schedule it for the summer. They will need to decide what to do with the state funded time. UW will keep Linda informed on the options.

Sproul – Rose Dufour presented the *Sproul* LOI.

- LOI includes funded and pending time. 62 days are funded.
- The Leichter pending days are declined
- Levin's days are NURP pending. The status is unclear and needs to be checked.
- Pinkel days are listed as TBS. These are probably carry-forward days from last year.
- D'Spain is listed as To be Submitted
- Checkley days are pending and need to be checked/
- Terrill days are Navy funded and may need to be split into multiple legs.
- The Teague (Navy funded) and Wilkerson are on the LOI as place holders in case Point Sur can't schedule them.
- Wilkerson is declined.
- Chadwell NSF days are pending. Status needs to be checked.
- Collins days are also a place holder for Point Sur and are listed as "non-op." They are not in the total day count.

Wecoma – Pete Zerr presented two LOIs; one with the Alaska days and one without.

- Keil cruises have time constraints because he has cruises on three ships that must not conflict. Because of this time constraint, the Mowm glider cruise is not scheduled on *Wecoma*. It can probably be done on Sproul or Point Sur.
- Weingartner – doesn't need to be on the same ship as last year.
- Almost all work on *Wecoma* is NSF projects and is funded.
- Total days are about 115.

Point Sur – Stewart Lamerdin presented 2 LOIs; one with and one without the Alaska work.

- The NPS work is still pending. It is class trips. Stewart has put this in as two 8-day cruises.
- Carlson wants to use the Triaxis
- Bruland is NSF funded for two cruises.
- Baptista should be removed from the schedule. The Baptista days were added to the Levine cruise which is on *Wecoma*.
- Konar and Weingartner are double-booked with the *Wecoma*.
- The LOI with the Alaska work has a total of 159 days and the LOI without the Alaska work has a total of 120 days.

General Note – Linda Goad said that these schedules are not sustainable. Pete Zerr noted that many of the cruises overlap with each, so multiple ships might be required. Linda emphasized that there will need to be fewer ships operating in order to be sustainable. Stewart said that the schedulers looked at this carefully and there are a lot of requests for peak periods.

New Horizon – Rose Dufour presented the LOI. She said that they tried to avoid scheduling any double bookings. All operations were scheduled in the period from April to November.

- Operations would begin in April off San Diego
- Schopfel is pending Navy.
- The Hodgkiss Navy funded work in May is a two ship operation with *Melville*.
- In June the ship would work off of Mexico.
- Checkley's two cruises are pending NSF.
- The Send days are to be submitted. The status needs to be checked with NOAA.
- There are two CalCofi cruises.
- Operations would end in November.
- There are 155 total days (81 funded, 74 pending). Rose said that the schedule should be sustainable. Most of the pending work looks promising.

Rose - After the last West Coast ship conference call the schedulers decided that *Wecoma* would focus on the Alaska requests, *Point Sur* would work on the Monterey Bay requests, and *New Horizon* would stay south.

Linda Goad – This *New Horizon* schedule makes sense. She will need to know the day rates for each ship to determine if they are reasonable.

There was a question about requests for 2010 time that are submitted for NSF's August deadline. Linda said that the August panels won't be decided until late fall.

Linda – the schedules must be sustainable. The schedulers must determine the schedules today. There are a lot of issues. She needs to know how many efficient schedules there are.

A chart showing 20 years of fleet utilization from 1989 to 2009 indicates a sharp decline in the number of operational days for the Intermediate Class (*Appendix III*). In 2010 the requested days for the Class is about 800 total days. This is unsustainable for the number of ships in operation.

Linda asked the east and west schedulers to present realistic schedule and to work on these over the lunch break.

Follow-up on items raised earlier:

- Joe Ustach - Lohrenz prefers *Cape Hatteras*.
- Bill Wiseman (NSF/OPP) - If OPP is able to charter an ice breaker for the BEST program, they would request a 30 day UNOLS cruise in the summer – probably on *Knorr*. If OPP cannot get an icebreaker, then they might request a global vessel in the spring for about 45 days.
- Tim Schnoor - Schopfel will be Navy funded for two cruises most likely on *New Horizon* and *Kilo Moana*.
- Ziegenfuss is still NAVY pending. Tim Schnoor is trying to determine the status.

Lunch break

Identify West Coast and East Coast Problems - Suggested Resolutions:

West Coast - Pete Zerr reported that the west coast schedulers worked over the lunch break to try to schedule the ships efficiently. Many of the requests for peak periods during June and as a result, about 90 days of work could not be scheduled in order to have efficient schedules.

Rose – It is very difficult to create efficient schedules without knowing day rates. They tried to create schedules that would block cruises into a continuous period during the year. This would allow the ships to lay-up in homeport during the extended periods. One issue that they recognize is that this strategy might present problems with labor unions at the respective operating institutions.

Action Item - Linda requested that schedulers post LOIs by August 3rd with the daily rates to go with those schedules. The fuel rate to use is \$250.

East Coast Regional Ships – Liz Caporelli reported that the schedulers compiled all of the requests for the East Coast and then weeded out the requests for intermediate ships. The remaining cruises were used to create one generic regional test ship schedule. The result was a schedule of 89 funded days and 39 pending for a total of 128 days. There could be additional days if the Regional ship went to the Gulf of Mexico.

Ledwell will be scheduled on *Walton Smith*.

Liz added that the Regional generic schedule doesn't consider cruise overlaps, but it might be feasible to carry out all of the work from one ship. However, there might be problem adding days later from other sources. Also it might be possible to schedule the work on two ships by blocking the time in order to allow extended lay-up periods and potentially lower day rates to a reasonable level.

East Coast Intermediate Ships – Liz Caporelli said that the east coast schedulers created a “test ship intermediate” schedule. It includes the submersible work. The total days are 159 (119 funded and 33 pending). Lawson and Anderson are listed as pending. Alan Hilton said that NOAA will probably not request any days for the DART program.

Linda assigned a homework project to the schedulers:

- Institutions should determine if they can sustain the schedules that have been created.
- Can they make a schedule with lay-up periods?
- The schedules must have reasonable day rates.

OBSIP Program - John Collins provided the OBSIP report via teleconference. He provided a table with OBSIP Field Program Commitments for CY 2009 through CY2012 (*Appendix IV*):

- This year two instruments were lost off of *Langseth* in 2009
- Hager's instruments need to be picked up in early 2010.
- Linda said that she will not fund Baldwin. Lynn Johnson can fund if desired.
- Linda said that the NSF project numbers must be added to the OBSIP chart. She also needs to know the project priorities.
- The ARRA projects have priority. Kohler is ARRA. Korenoger is not ARRA, but is funded from the FY2009 budget.
- Wiens will be funded from the FY2010 budget
- Driscoll can go anytime and will use a pontoon boat.
- It was suggested to schedule Driscoll first and then follow with Caption/Auerbach.
- Linda said that she wasn't familiar with the CASCADIA project. The CASCADIA instruments have not yet been built.
- Linda emphasized that MG&G must prioritize the OBSIP programs.
- Wiens III is a recovery of instruments deployed in December 2009.
- Linda asked if the Kohler cruise could be scheduled for June. John replied that it would be too early.
- Hager is planned for February 2010. The instruments would be shipped back to SIO.
- The Forsyth instruments need to be recovered by Oct 2010.

- Linda said that additional details are needed on the programs.
- The Wiens deployment should be less than 12 months.

Review Large Ships- Globals/Ocean:

Marcus Langseth – Jeff Rupert presented LOI Version 3.5.

- The schedule begins with the ship in maintenance mode. Operations begin in late March with a transit to Dutch Harbor, Alaska.
- The first science cruise is Korenaga (50 days NSF/ARRA)
- From Alaska the ship transits to the West Pacific for operations in the Marianna Trench. Wiens days are NSF pending.
- Jeff indicated that the ship has not worked from ports in this Western Pacific area and asked for feedback from the operators regarding Guam, Apra, and Suva. Alan Hilton offered to get feedback from the NOAA ship operators. Dan Schwartz strongly encouraged Jeff not to go into Suva. The *Thompson* also experienced problems in Apra because of limited port space. Tonga was fine.
- Wiens and Bohnenstiehl – Linda will look into the status and get additional details about their requirements. Rose Dufour said that these days are also on one of the Melville LOIs.
- Bangs is scheduled as the last program because it gets the ship to Costa Rica, close to the pending work in Mexico for UTIG. The tried to avoid scheduling Bangs in the middle of cyclone season. Bangs is the
- Rose – Wiens and Forsyth should go together. Liz – Forsyth requested an intermediate for OBS recovery.
- Jeff said that Bangs’ request was for 30 days to carry out a 3-D seismic cruise. Jeff feels that this is optimistic. It is difficult staging a 3-D cruise on *Langseth* when they only happen once a year.
- There are 292 total days (179 pending, 113 funded).

Atlantis: Liz Caporelli presented the LOI 2.

- The Capone cruise (non *Alvin*) needs to avoid overlap with Yager and Landry days.
- Stedigal has been talking about adding days to Sinton cruise (*Alvin/Sentry*).
- Levin (NSF pending) needs two cruises separated by 6 months. There is no way to schedule this in 2010 and stay within the weather window. The second cruise will be scheduled in 2011.
- Hubor (*Alvin*) is still pending. She wants to go with the Chadwick cruise.
- Key days (non *Alvin*) are triple booked. This work is listed as non-op
- Bates days (NOAA) are listed as non-op. The ideal time for this work is mid May to June for NOAA work. Permits are needed. Bates is also on the *Melville* schedule, but it would probably fit better on *Atlantis*.
- Joye days could potentially be scheduled in November.
- There is 273 days total (239 funded, and 34 pending). All but 4 days are NSF days.

- Linda – NSF cannot fund this many days on *Atlantis* because it would exceed \$8M.

Knorr – Liz Caporelli presented the “w/ Beal, Yager, Eglington, defer Keigwin” LOI.

- In order to put together a reasonable schedule on *Knorr*, Keigwin would have to be deferred.
- Toole has indicated that he needs Global and he made a mistake on his STR by requesting an Intermediate.
- Linda – Is there any non-NSF work that can be scheduled on *Knorr*? Liz – not really. Edmington and Yager are a must.
- There are no double bookings.
- Geotraces (Jenkins/Charette) must be scheduled on *Knorr* because the ship has been modified for this type of work.
- The LOI has a total of 324 days (312 funded, 12 pending). All but 10 days are NSF funded.
- Liz said that Beal could possibly be deferred, in which case Keigwin’s long core cruise could possibly be scheduled.

Kilo Moana – Stan Winslow presented LOI 2.

- The PI for the HOTS cruises are listed as Matthew Church. Linda – How many HOTS cruises are not scheduled? Stan – He thinks that two HOTS cruises are not scheduled.
- Karl/C-MORE – Stan needs to check to determine how many ship days are left in the C-MORE program. He thinks that there are still 7 days left.
- Liz Caporelli – Miller is not on a schedule and would like a transit cruise from the west coast to Hawaii. He was on the *Wecoma* years ago. Linda – Possibly *Wecoma* could do Miller transit and then schedule two HOTS cruises with a possible return at the end of the year. HOTS is ARRA funded.
- The *Kilo Moana* schedule includes double bookings: Johnson, Wiens, Bohnenstiehl, and Chadwick.
- Sarah Gray – Linda said that there should be a recent STR from Gray. After searching the STRS system, it appears that she has not submitted a request yet. She will need to be contacted.

Thompson – Dan Schwartz presented the “WestPac option” LOI.

- The first half of the year the ship is scheduled for funded work in the Western Pacific.
- In late June the ship will transit to Alaska for Stebano’s NOAA pending days. Stebano’s days will probably get funded. She would like to be scheduled at the end of August. Her days could potentially be added to the BEST cruise. Thompson is the only ship scheduled for the Stebano days.
- Karen Harp’s cruise is not on Thompson’s LOI. The cruise will include students. Harp wants the EM-300.
- After Alaska, the scheduled work is off Washington and Oregon beginning in August.

- Delaney's cruise is listed as OOI funded, but this needs clarification. The understanding was that OOI work would begin in 2011. There will be a new agency designation on the STRS form to indicated OOI funding.
- Johnston is double booked.
- There is 260 days total (195 funded, 65 days pending).
- Two important details are needed: 1) will there be OOI ship time in 2010 and 2) the status of the BEST program.

Revelle – Rose Dufour presented the “WestPac option” LOI.

- Due to *Melville*'s propulsion problem, *Revelle* and *Melville* swapped schedules for the second part of 2009.
- All work is planned in the Western Pacific.
- In late October the ship will transit to San Diego for a Maintenance period from late November until late January 2011.
- There are no double-bookings
- There are 307 days total, all funded (260 Navy, 47 NSF).

Melville – Rose Dufour presented the “Eastern Pacific South/North/South” LOI.

- Work at the start of the year is off Chile
- In March the ship goes to Seattle for Yvon-Lewis days
- A maintenance period in San Diego is planned in April.
- If the Bates work is scheduled, ship modifications will be needed. Perhaps Bates should be on Atlantis.
- Landry (NSF funded) is scheduled in August.
- Harpp is double booked. She has requested the EM-300.
- Thurber is listed as “non-op” on the LOI. It can not conflict with polar programs in Jan/Feb.
- The LOI has 316 total days (286 funded, 30 pending)
- Linda – *Revelle*'s schedule is a heavy schedule. But if any cruises are removed, another ship would have to transit to pick them up.

General Discussion:

- Linda – The large ship schedules need to be evened out to about 250 days each. (Action item for large ship schedulers during the break.)
- Bates would like to be scheduled in mid May. It is a multi-platform program.
- INSURV days should be listed as “non-op” days on the schedules.
- There are still double booked cruises on the Globals.
- Pete Zerr – Once the schedules are more firm, the schedulers should contact him and Tim Deering regarding van requests..
- Linda – Ship cooperative agreements will be extended due to an increase in proposals requesting ship time, as well as their funding through the American Reinvestment and Recovery Act (ARRA). The extension will take place automatically. You don't have to do anything. The change will most likely take effect before November 1st.

Break

Globals/Ocean Ship - Suggested Resolutions – During the break the large ship operators worked to even out their schedules to 250 days each.

Atlantis - Liz Caporelli reported that the *Atlantis* LOI (Version #1 – 7/14/2009) was reduced to 254 days. There are 196 funded NSF days and 58 pending days which includes 48 NOAA pending days. Bates is on the *Atlantis* schedule.

Melville – Rose reported that she removed Kohler from the schedule and the total days are now 256 days.

Thompson – Dan Schwartz presented the “South and Alaska” LOI option.

- The Stebeno days remain on the schedule.
- Delaney and Best are shown as non-op until the status is clearer.
- The State student cruise will probably be after the Johnston cruise on the transit back from Hawaii.
- The cruise dates need to be corrected.
- There is a total of 243 days (201 funded, 42 pending)

Kilo Moana: Stan Winslow reported that the LOI is unchanged. There is total of 251 days but if he loses Johnston (39 days) the total would decrease. Bohensiehl and Wiens are still double booked.

Langseth – Jeff Rupert presented LOI Version 3.1 which has a total of 250 days (137 funded, 113 pending).

Knorr and *Revelle* – There are no changes to the LOIs presented earlier.

Review Action Item – By August 3rd, all schedulers should post their best schedule (post as an LOI). There should be no double bookings. The day rates associated with the schedules are also due by that date. The fuel cost to use is \$2.50 per gallon.

Other Business, Next Meeting Schedule, Comments:

Bob Houtman – It is apparent that there are too few requests to efficiently operate all ships in 2010. Lay-ups will be necessary. NSF plans to start the process of determining which ships to lay-up as soon as possible. The process began too late last year. The agencies will work to send their recommendation to the UNOLS Council in August.

Linda will have surgery on her right arm will not be able to use it. If you need to reach Linda, she asked that you contact her on her work phone number.

Adjourn – *The meeting adjourned at 5:00 pm.*