

## R/V Sikuliaq Sea State POD: 27 Oct 2015

Overview: race track flux stations (six repeated stations)

Ice forecast: freezing

Wave forecast: calm

Met forecast: 6-9 m/s E, cold (-16 C),

| Time<br>(local ADT) | Location<br>(dec min)                                                                                                                                                  | Activity                                                                                           | Personnel                                                 |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 00:00-04:00         | racetrack survey<br>#1: 72°42'N, 158°53'W<br>#2: 72°35'N, 159°08'W<br>#3: 72°26'N, 159°26'W<br>#4: 72°20'N, 158°59'W<br>#5: 72°29'N, 158°41'W<br>#6: 72°36'N, 158°26'W | ice obs<br>UCTD (transit)<br>radiosonde balloon (03:30)                                            | Clancy<br>Talbert<br>Guest                                |
| 04:00-08:00         | “                                                                                                                                                                      | ice obs<br>UCTD (transit)<br><br>recover SWIFTs (~05:00,<br>detour from station #5)                | Kohout<br>Smith<br><br>Thomson et al                      |
| 08:00-12:00         | “                                                                                                                                                                      | ice obs<br>UCTD (transit)<br>radiosonde balloon (09:30)                                            | Rogers<br>deKlerk<br>Guest                                |
| 12:00-16:00         | “                                                                                                                                                                      | ice obs<br>UCTD (transit)<br>radiosonde balloon (15:30)<br>ROV mission at station #1<br>LIDAR scan | Shen<br>Stammerjohn<br>Guest<br>Maksym et al<br>Weissling |
| 16:00-20:00         | “                                                                                                                                                                      | ice obs<br>UCTD (transit)<br><br>PLANNING MTG (20:00)                                              | Holt<br>Talbert<br><br>ALL                                |
| 20:00-00:00         | begin transit into the<br>ice @ 00:00                                                                                                                                  | ice obs<br>UCTD (transit)<br>radiosonde balloon (21:30)                                            | Lund<br>Smith<br>Guest                                    |

### Notes:

1. Need to conduct a radiometer calibration (spin ship 360°) the next time we have clear and sunny conditions.

R/V Sikuliaq Sea State POD: 28 Oct 2015 (day+1)

Overview: ice station(s) in newly consolidated ice

Ice forecast: freezing

Wave forecast: n/a

Met forecast: 6-9 m/s E, cold (-16 C),

| Time<br>(local ADT) | Location<br>(dec min)                                           | Activity                                                                          | Personnel                             |
|---------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|
| 00:00-04:00         | transiting from<br>72°42'N, 158°53'W<br>to<br>73°14'N, 157°16'W | ice obs<br>UCTD (hourly)<br>radiosonde balloon (03:30)                            | Clancy<br>deKlerk<br>Guest            |
| 04:00-08:00         | "                                                               | ice obs<br>UCTD (hourly)                                                          | Kohout<br>Stammerjohn                 |
| 08:00-12:00         | searching for an ice<br>station near<br>73°14'N, 157°16'W       | ice obs<br>UCTD (hourly)<br>radiosonde balloon (09:30)<br>AUV, LIDAR, UAS surveys | Holt<br>Talbert<br>Guest<br>ice teams |
| 12:00-16:00         | ice station                                                     | ice obs<br>UCTD (hourly)<br>radiosonde balloon (15:30)<br>AUV, LIDAR, UAS surveys | Shen<br>Smitth<br>Guest<br>ice teams  |
| 16:00-20:00         | ice station                                                     | ice obs<br>UCTD (hourly)<br>AUV, LIDAR, UAS surveys<br>PLANNING MTG (20:00)       | Rogers<br>deKlerk<br>ice teams<br>ALL |
| 20:00-00:00         | flux station nearby<br>(or same station)                        | ice obs<br>UCTD (hourly)<br>radiosonde balloon (21:30)                            | Lund<br>Stammerjohn<br>Guest          |

Notes:

R/V Sikuliaq Sea State POD: 29 Oct 2015 (day+2)

Overview: ice station(s) in newly consolidated ice

Ice forecast: freezing

Wave forecast: n/a

Met forecast: 6-9 m/s E, cold (-16 C),

| Time<br>(local ADT) | Location<br>(dec min)                                          | Activity                                                                          | Personnel                                 |
|---------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------|
| 00:00-04:00         | ice/flux station                                               | ice obs<br>UCTD (hourly)<br>radiosonde balloon (03:30)                            | Clancy<br>Talbert<br>Guest                |
| 04:00-08:00         | transit southwest                                              | ice obs<br>UCTD (hourly)                                                          | Kohout<br>Smith                           |
| 08:00-12:00         | searching for another<br>ice station near<br>73°00'N, 157°45'W | ice obs<br>UCTD (hourly)<br>radiosonde balloon (09:30)<br>AUV, LIDAR, UAS surveys | Rogers<br>deKlerk<br>Guest<br>ice teams   |
| 12:00-16:00         | ice station                                                    | ice obs<br>UCTD (hourly)<br>radiosonde balloon (15:30)<br>AUV, LIDAR, UAS surveys | Shen<br>Stammerjohn<br>Guest<br>ice teams |
| 16:00-20:00         | ice station                                                    | ice obs<br>UCTD (hourly)<br>AUV, LIDAR, UAS surveys<br>PLANNING MTG (20:00)       | Holt<br>Talbert<br>ice teams<br>ALL       |
| 20:00-00:00         | flux station nearby<br>(or same station)                       | ice obs<br>UCTD (hourly)<br>radiosonde balloon (21:30)                            | Lund<br>Smith<br>Guest                    |

Notes: There will be one more day of ice station (30 Oct), then back to the ice edge for additional “race track” flux surveys and for additional wave measurements (if waves are present). The final set of wave measurements will focus on a tight array (all buoys within 1 km).