**ICESat Check Sheet**

1. Week prior- operation
   1. Notify station that you are planning on completing ICESat in the coming week on the best weather day
   2. Notify mechanic so he or she can prep the snowmachines and polypod (bring it in the SOB if possible so it isn’t cold soaked)
   3. Survival bag, sat phone, beacon, bread crumbs need to be located/checked by station manager
2. Science Equipment- locate/prep
   1. R7 GPS receiver
   2. Antenna for top of polypod
3. ICESat Prep- Day Prior
   1. DAY PRIOR- plug in GPS battery, allow to charge overnight
   2. Check base station and antenna on GH roof ‘
   3. Locate 3 Nalgene bottles to hold hot water
   4. Check R7 configuration file (see protocol)
4. Day of ICESat Prep
   1. Snowmachines- check they are fueled and breadcrumbs are working
   2. Boil water for Nalgenes and place in styrafoam box with GPS/Sat phone/Beacon
   3. Attach antenna to polypod, attach GPS
   4. All science equipment in polypod- accumulation, extra pencils, log…
   5. All survival equipment in polypod, including winterpacks and extra batteries for radio
   6. Turn on R7 receiver and verify that all indicator lights are correct. Leave receiver on until you return to station.
   7. Call out to manager prior to leaving station
   8. Follow flag line to start of ICESat
5. ICESat
   1. At the beginning of the ICESat flagline, note the time and measure the depth of the track.
   2. Make a radio call back to station notifying the manager that you are beginning the ICESat traverse.
   3. Accumulation measurements are recorded to the nearest ½ cm and are taken from the snow surface to the **bottom** of the black tape on each flag (see protocol).
   4. Drive the polypod around the corners properly (see protocol).
   5. At end of the primary ICESat traverse, note time and measure track depth.
   6. Drive the ICESat 2 survey, and then return to station.
6. After ICESat
7. Call into station manager to announce your return to station
8. Return snowmachines and equipment to proper location
9. Record time on Clean Air Log (including return on skiway)
10. Process data (see protocol)

\*\*\* Something to note\*\*\*

On the ICESat traverse, red flags = North travel, black flags= East/West travel. Color change = turn. When needed, replace flags with appropriate color!!!