R/V SIKULIAQ ICE STATION PRE-ARRIVAL/ARRIVAL/ON STATION/DEPARTURE

Location:	Date:	
Cruise Instruction:	Purpose:	
Conditions: Performed for on-i	ice operations prior to arrival, on arrival, on station and with departure.	
Pre-Arrival: (SKQ Review of O	On-Ice Operations Plan)	
What is the desired Ice "Rea	al Estate" & geometric shape of perimeter - Time allotment – Safety Limits	& Suitability
Type of ship entry/positioni wind direction.	ing into/next to floe; sun and wind angle, expected "dirty air" sectors (stac	:k gas trail) w.r.t
What are the desired types surface collection sites.	of grid & sampling – Caution with establishing station and surveys so as no	ot to disrupt
What Equipment is to be us	sed during an Ice Station – staging/de-staging sequence – weight	
Sequencing recovery of dep	ployed sampling equipment (hand-carried up gangway or crane)	
Type of mooring configurati	cion (port/stbd) Toggle(s)s or whale bollard(s)	
Boundary geometric shape	e desired and markings	
Ice conditions, dynamics, flo	oe composition. Forecasted movement. Observe fractures – propagation p	patterns
Arctic weather conditions –	- winds – seas expected – currents - visibility	
Discharges to be secured. I	Incinerator – Grey Water – Sewage – Food wastes	
Clothing and personnel safe	ety floatation equipment requirements. Sized suits, boots, gloves, hats, go	ggles.
Ice Rescue & Rescue Swimn	mer status – rotation & manpower support requirements	
Ice Rescue, Rescue Swimme	er and Bear Watch equipment checked - staged	
	nd other predators; assess / plan to reduce risk – Orient Bear Watch to wind prey target to maintain scent tracking on approach	d shifts – Polar
GAR Operational Risk Asses	ssment(s) for activities. Experience of personnel – risk of each operation.	
Crane(s), Man-basket(s), Ga	angway, Gear staged for deployment	
Good internet heading		
Lighting		
Thruster if required at mini	imum, wash aimed away from ice station. Consult with Master	

R/V SIKULIAQ ICE STATION PRE-ARRIVAL/ARRIVAL/ON STATION/DEPARTURE

Arrival and pre-operation for Ice Station -- Log in Deck Log when completed.

Crew Safety Brief - (Actions in the event of an emergency)
Prep Equipment for Ice Station; mooring equipment, gangway, auger, flags, Kovack, cordless drill, ice tester, safety line, knife, bear deterrent, UHF radio, GPS, . (Cordless drill and 2 batteries kept on V/L, warm, charging. Cold batteries do not take a charge, warm, then set on charge base)
Ice Floe survey & selection; size, thickness, features, leads, assess suitability/stability for mooring (30 minutes)
Bear watch commences – 360 degree perimeter. Observers/Watch: Attn to down-wind corridor
Stability of ice moor – slipping - fractures? Thrusters interaction with ice undermines integrity – (Minimize)
Science Safety Brief (White Board) – (Actions in the event of an emergency)
Personnel: Exposure suits/garments, boots, gloves/mitts, hats/balaclavas/masks, harnesses, Pick-of-life, goggles/glasses
On Station Ice
Survey transit path to on-ice sampling sites Monitor stability of moor, anchor, and ice
Reassess over time the perimeter and ice condition with current – wind – leads, fractures, and floe movements
Deploy man basket with Ice Surveyor and Bear Watch/ Ice Rescue test ice, set boundaries & moor toggle(s)
Recover man-basket – deploy palletized gear to ice – weight depending.
Deploy gangway and set with Accom ladder bridle.
Adjust placement & Rotation of On-Ice Bear Watch(es) & Safety person(s)
Evaluate locations of personnel in sampling area. Track crew & science with dry-erase on window
Baltic Room monitor & communications with Bridge of on-ice personnel buddy system tracking (radios)
Bear sighting. (Danger Signal) five Short (repeat as necessary).
Ice breakup - proceed back to vessel. (Papa signal) one Short two Longs followed by A short (repeated as necessary)
Illuminated decks in case a bear boards the vessel at night – Weather deck doors secured.
Departure
On-Ice personnel recovery and muster.
Securing/recovering ice boundaries & ice anchor – Ice clean-up Leave no Trace
Gangway & Man-basket recovered - stowed
What is the plan and location for additional activities after getting underway near ice station (CTD?)
Discharges re-enabled (ECR & Galley)