

Date	Incident Type	Location	Narrative	Lessons Learned/Recommendations
2/29/2012	Injury	Thule	Strain to rib while lifting item out of the back of a pick up truck bed.	Consider going into the truck bed to lift item down to second person.
3/12/2012	Injury	Thule	Slipped on High Molecular Weight (HMW) plastic while constructing sleds for traverse. Landed on hand during fall causing the fracture to wrist. Employee stayed on site and continued working.	Extreme care is needed when working around HMW plastic.
5/8/2012	Behavior/Action	Summit Station	Construction crew was excavating with a shovel around a vault near the base of the Swiss Tower. The employee came close to striking a buried electrical cable located outside of the bondstrand and flexible ducting conduit and vault.	
5/12/2012	Injury	Summit Station	Employee complained of a pinching feeling in their back and visited the station medic.	
5/16/2012	Behavior/Action	Summit Station	Trades Helper was shoveling and using a pick axe near the Berthing Module (BM) to locate the building's footings in preparation for shoring. This individual brushed an electrical feeder we were not expecting.	Program will revisit the mapping of utilities at Summit Station to track location of all buried lines to avoid striking while digging.
5/29/2012	Equipment	Summit Station	Welder was on an extension ladder, approximately 10' off the snow surface, cutting holes into 1" thick plate steel members of the Big House's permanent column jacking system with an acetylene torch. Suddenly, the worker experienced a ball of flames at the end of their torch that came close enough to singe their hair, but fortunately not burn or startle them enough to trigger a fall. It appears a casting plug (as part of the tool's fabrication) was blown-out, exposing controlled flames at the tip to ignite the now exposed Oxygen and Acetylene, which caused the fire.	
5/30/2012	Injury	Toolik Field	Worker suffered hernia while installing screws. No lost days or doctor visit.	
6/14/2012	Injury	Summit Station	While removing decommissioned fuel bladders from their containment area, a worker suffered a shoulder strain.	
6/15/2012	Behavior/Action	Summit Station	Electrician was repairing a fan motor. During the course of the repair, the panel that the service disconnect switch is attached needed to be unbolted and moved aside. During this process, it is suspected that the switch bumped against something and energized the circuit. When employee returned to wiring the circuit, the employee received an electrical shock.	
7/11/2012	Spill	Toolik Field Station	The Toolik helicopter pilot was notified as soon as the leak was noticed by our assistant chief pilot who explained about 5 gallons or less had leaked from the fuel bladder and was contained in the containment berm.	Be aware that safety glasses do not exclude particles from angles. Goggles may be preferred for some activities.

8/9/2012	Injury	Summit Station	Trades Helper was assisting with the drilling of a penetration through the TAWO aluminum foam panel roof in preparation for all-thread and unistrut mounting. The helper was roughly 3 feet below where the drilling was being performed, and was assisting the foreman, not performing the actual drilling. Although wearing safety glasses, the lower position allowed the fragment to enter through the narrow gap between their forehead and safety glasses.	
8/9/2012	Injury	Summit Station	Trades Helper had been doing much of the finish work associated with the Big House Remodel and gradually noticed an inflammation of their right [dominant] wrist. Troweling, cutting, caulking, and transporting material were all aspects of their daily tasking.	Be mindful of repetitive motion injuries and treat them early according to medical professional's recommendations.
8/13/2012	Equipment	Barrow	Science support employee launched the 17' Boston Whaler from the Niksiraq boat launch at Elson lagoon. There were 3 other passengers on board; and all were NSF supported researchers. After getting about one mile from the launch, the outboard stopped running. The employee quickly tried to trouble shoot the problem, but was unable to restart the motor. The employee instructed the crew to help him keep the boat facing up wind to prevent any waves from coming over the stern. They were able to do this by using two paddles that were on board.	Details about this are lacking. Memory says another boat was summoned and towed the disabled boat back to launch area.
8/13/2012	Equipment	Summit Station	The newly-installed hood variable fan drive controller suddenly emitted flames and sparks for a few seconds.	The controller was removed from service and was replaced with an on and off switch in order to still have operation of the mushroom fan that ventilates the hood.
8/17/2012	Injury	Toolik Field Station	A CPS plumber was working in the pantry area of the kitchen in the dining hall, installing a hose for the glycol system. In order to reach the area of installation, the employee moved a rolling shelf out of the work area. Upon completion of the work, the employee rolled the shelf back into position and during this, a plastic bin fell off the top shelf, striking the employee in the head and leg.	Check work area for items that may come loose and fall during projects.
5/1/2013	Injury	Summit Station	An Electrician was completing an electrical upgrade on the Noone Box. While removing a 4'x8' sheet of plywood, the worker felt a strain in the lower back. The plywood was grabbed on both sides and slid several feet from the location.	
5/20/2013	Behavior/Action	Summit Station	During inclement weather (Condition 2 – defined as visibility <2000ft but > 200 feet) the Equipment Operator, while transporting a full cylinder cage by means of the forks on the CAT 933, drove over an unseen small snow drift. This action jarred the machine enough that the worker was moved from the seat and against the windshield of the vehicle. The worker was not wearing a seat belt at the time of this incident.	It is imperative to use seatbelts whenever operating a vehicle.
5/22/2013	Injury	Summit Station	Carpenters Helper was completing tasking that required cutting a large roll of high molecular weight (HMW) plastic in the Science and Operations Barn (SOB). While unrolling the material to cut to length, it recoiled and rolled on top of the worker's left hand.	
6/17/2013	Injury	Ivotuk	Carrying a heavy load (~80lbs) of gear across tussock tundra. Caught a tussock wrong and strained the knee. No treatment and employee finished the tasking and did not leave the field.	

6/20/2013	Equipment	Summit Station	Both Carbon Monoxide (CO) monitors alarmed in the Science Operations Barn (SOB). They were located in two separate locations, one on the southwest wall of the SOB and the other on the north wall of the SOB near the generator module. The mechanic and cargo coordinator ventilated the SOB, the CO reading went back to 0ppm, but there was no definitive source of CO. They closed the doors and the readings stayed at 0ppm.	
6/20/2013	Equipment	Summit Station	A Herman Nelson (standalone gasoline fueled portable heater) was being used to melt out an outhouse hole in Tent City about ten feet from the current outhouse. The Mechanic and Field Coordinator were starting another outhouse hole about 10 feet away. The Herman Nelson was running when they noticed the burner flame up, and they used nearby extinguishers from the Science Mobile building and the Recreation Port and used them to extinguish the fire.	
7/3/2013	Equipment	Summit Station	Electrician was drilling holes through the Green House lab module wall in preparation for running glycol lines through and into the mechanical room. The worker's drill bit made contact with romex wiring within the wall resulting in sparks and a potential electrical shock. They were unharmed.	
8/7/2013	Injury	Summit Station	Trades Helper was removing several bolts that married the hinge plate to the base extension (white section) of the Tower. The worker was struck by a washer projected laterally during the extraction of a bolt.	
8/10/2013	Injury	Summit Station	Kitchen staff member incurred repetitive motion injury of right wrist from duties using knives for chopping large volumes of food, stirring large volumes of food and lifting heavy pots.	
8/19/2013	Injury	Summit Station	GrIT Mechanic was climbing down from the cab of the Case 500 tractor using the ladder built into the tractor. While taking the last step onto the shop floor the worker turned and felt a pain in their right knee.	
9/3/2013	Property Damage	Toolik Field Station	During construction operations at Toolik Station several PFS employees were trying to move a Rock Separator laterally using an excavator, it became unstable and tipped over hitting the cab of the excavator. The impact cracked the window and bent the edge of the window frame. The Rollover Protection System of the Excavator protected the operator from injury.	
9/26/2013	Injury	Summit Station	An employee was working on the Green House roof, doing the normal rounds of vent cleaning, and stepped down to the lower level, rolled their right ankle on an unmarked drop in the decking.	
11/6/2013	Equipment	Barrow	Three UMIAQ employees were driving back to the National Arctic Research Laboratory (NARL) on snow machines towing two Sisuaq sleds. Two pieces of large rolls of plastic from the Barrow Environmental Observatory (BEO) decommissioning Project were loaded on each of the Sisuaq sleds. The employees tied down the loads, which were roughly 600-700 pounds, to the sleds and hauled the material to NARL at around 15 mph. They noticed a rough jolt from the back of the snow machine. They had looked back and the sled tow bar had snapped in half.	

12/4/2013	Equipment	Barrow	Four employees were riding snowmobiles with sleds attached from Cape Simpson, at 25mph. They noticed one of the sleds swerving to the right, stopped, looked at the sled and kept going. After going over a rough spot of land, the poles flew off the sled. They stopped to ask the driver if they were ok and to look at the sled again. After putting the poles back in the sled and making sure everyone was ok, one operator noticed the sled was towing heavier and saw snow was getting on the sled. They were about 20 miles out when the lead driver saw what appeared to be a crack on the sled and slowed down for the remainder of the trip.	Slower speeds may be necessary to protect equipment in the field.
3/12/2014	Behavior/Action	Summit Station	Science Technician was working on the snow accumulation survey, an annual survey completed to show snow drifting around station, and drove onto a ramp parallel to the downward slope and could not correct their course and the snowmobile tipped on its side. During this time the employee's goggles also iced up impairing their visibility.	When goggles begin to ice, action should be taken to alleviate the problem.
3/18/2014	Injury	Thule	A Greenland Inland Traverse (GrIT) staff member was walking around the side of building 628. There is a slight gradient change between the gravel pad the building sits on and the parking area alongside where equipment is parked. While walking down this gradient the worker slipped on some ice and landed on their elbow.	Identify changes or modifications to familiar areas and communicate those within the team.
6/25/2014	Injury	Knight Island	A CPS employee was assisting to re-anchor an inflatable boat on Knight Island in Alaska. After anchoring the boat, the worker was moving across the shoreline, which is cobbled beach, back to the main camp. The worker slipped on a cobble slightly twisted their knee.	Be more aware when moving on cobbles to ensure no small slips occur. When cobbles are wet even more care can be taken and discussions about improving the heavily traffic areas is pertinent.
8/26/2014	Injury	Kangerlussuaq	A worker injured their right arm when pulling on a Herman Nelson positioned on a forklift. As the worker pulled on the heater, they felt a pop in their arm and stopped the work. The worker was offering ground support and attempted the adjustment while standing to the side of the forks.	If in doubt, ask for help. Use all resources to communicate and come up with ideas for awkward field tasks.
8/26/2014	Behavior/Action	Summit Station	Science Technician working in the Mobile Science Facility (MSF) noticed a melting smell and called the Construction Foreman on the radio with the concern. They completed a walk-around inspection to see where the smell was the strongest and feeling various instruments to see if they were warmer than they should be. The Electrician came to the plug in line that powers the Hatpro transformer, observing that it requires a substantial amount of power at 19 amps. The Electrician found this wire to be warmer than it should be and immediately unplugged it. The plug and outlet were scorched and this was correctly identified as the melting that was smelled.	Work with research teams to make sure they have the technical support needed for all operational duties related to on-site projects to avoid wiring problems. Also, always follow-up on strange smells and other indicators that equipment is not functioning properly.
9/26/2014	Equipment	Barrow	A worker was driving across town and heard a noise from the truck, stopped, and noticed the tire was coming off. The worker called on the radio for the UMIAQ mechanic to come to their location.	Complete walk-around inspection of vehicles prior to driving.

2/15/2015	Injury	Summit Station	While performing snow sampling training at TAWO in -55C temps at Summit Station Greenland, wind chill -70C, a science technician experienced loss of feeling, pain and hardening of flesh in the fingertips of both hands. On multiple fingers, the flesh felt pulpy and hardened.	Station Management to repeatedly stress cold injury prevention and that staff need to be highly focused on personal injury prevention ahead of task completion.
3/19/2015	Injury	Summit Station	Science Technician had skin loss on the bridge of their nose from a potential frostnip injury that occurred during routine duties.	Staff need to be highly focused on personal injury prevention ahead of task completion. Note that this injury occurred below face protection and was not visible. Staff must monitor themselves and one another.
7/22/2015	Injury	Summit Station	A very small piece of metal fell into the Welder's left eye while arc welding and grinding on TAWO steel columns at Summit Station. Welding safety was addressed during the General Safety Awareness training, at the morning meeting each day that welding/grinding was in process. Fire watch was in place, the Welder was wearing proper PPE and following safe welding practices.	Behaviors that avoid risk and PPE are important in reducing incidents.
8/29/2015	Equipment	Toolik Field Station	Truck lost traction on slick snow while driving on the Dalton Highway.	All trucks should be issued with a satellite phone, a copy of important phone numbers, and have capable mud and snow tires. Solo driving should be discouraged whenever feasible.
9/2/2015	Injury	Kangerlussuaq	While lifting aluminum studs (wall studs), employee felt a popping sensation in their right hand- in the area between the ring finger and wrist on the back side of the hand.	Always ask co-workers for assistance. Keep an eye on co-workers and offer your assistance when needed.
9/4/2015	Injury	Kangerlussuaq	While moving, emptying, and inventorying 55 gal fuel drums, an employee commented the following day their back was sore.	Always ask co-workers for assistance. Keep an eye on co-workers and offer your assistance when needed.
1/29/2016	Personal Health	Summit Station	Some of the food items in the freezer trench smelled and tasted of fuel. 14 boxes of food items that were spoiled and are inedible which were disposed of and being sent off station.	No pallets should be left behind a C-130 for any extended length of time. All food pallets should be covered with an impermeable plastic cover as an extra precaution to prevent contamination. Clean gloves and clothing that have not been used around diesel should be worn when transporting and storing food.
2/12/2016	Behavior/Action	Thule	An employee was digging out the snow covered High Molecular Weight (HMW) Polyethylene Sled, using a small Siglin sled to move shoveled snow off of the HMW (this was to prevent shoveling strains as the 'dump' area was too far off the edge of the sled). A co-worker helped push the sled across a sticky section of the HMW, but gave it more force than was needed, which bumped the employee in the legs and cause them to fall.	Need to always be extra vigilant on the HMW surface. Make sure to communicate all hazards prior to the task starting. Crew should communicate with each other.

3/10/2016	Environmental	Thule	While SCAT was on the route between B1a and B1b, the front track of the tractor 'whumpfed' and felt like they had hit a large bump, but drove over a weak crevasse bridge.	Crevasse detection using satellite imagery analysis, GPR, and ground truthing, have uncertainties. The survey team should mark crevasses that are approaching ~2 ft. wide and have bridges less than 5 ft. deep with gates at the narrowest width so that the tractors can approach these crevasses perpendicular and know to slow down to 5mph.
3/14/2016	Behavior/Action	Thule	The heavy equipment operator was attempting to pull a Herman Nelson (~350 lbs) a few inches to the rear of a truck when the worker felt a pain in their right shoulder. The Herman Nelson was placed in the truck using mechanical means, where it is kept at all times to use to heat other equipment or objects. It's always kept in the truck to prevent having to move it each day. The mechanical means to budge the Herman Nelson a few inches was not available at the time of repositioning. Moving the Herman Nelson was required to open the engine lid to start the machine.	This incident is a reminder of the importance of teamwork and helping each other even with small tasks. It is important to position heavy items with access points available to avoid the need to reposition them.
3/18/2016	Property Damage	Thule	A survey team member sleeping inside the Survey Module awoke to the smell of smoke. The worker went outside and observed the Drill Shed on fire. The Survey Module was approx. 200' – 300' from the Drill Shed at that time. The worker observed flames coming through the Drill Shed door and the roof appeared to be on fire.	Lessons were learned about storing combustible materials. In addition, table top exercises are useful when working through new or potentially dangerous situations. Previous table top exercise included the following scenarios: 1. While on traverse, GrIT wakes up to a whiteout with 100 MPH winds and lots of blowing snow that is building large drifts, zero visibility etc. 2. While on traverse, fire of living module results in a non usable structure. 3. While on traverse, fire of a vehicle resulting in a non usable vehicle.
5/1/2016	Injury	Summit Station	The Mechanic was checking the meter hours on the D6 dozer. After the worker climbed off the tracks of the equipment, the worker tripped, fell, and overextended their shoulder.	Remain aware of trip hazards in general and warn through signage, training, and other means about floor hazards specific to the building/area
5/12/2016	Injury	Summit Station	The Carpenter was disassembling the SIP floor sections for the Summit Mobile Garage and slipped on snow covering the ice/water barrier that the floor panels resulting in a twisted knee.	Consider installing the water barrier material after the building is completed to reduce the amount of exposure to this material.

6/12/2016	Injury	Summit Station	The Trades Helper slipped on Tamco waterproof membrane carrying light materials. The worker did not fall, but quickly braced and tweaked their right hip. The initial hip pain was not severe, but increased after the work day was over and through the night.	Slips, trips and falls are the largest source of incidents in the program. Anticipation and identification of hazards and creative solutions to mitigation strategies need to be identified, communicated and executed early in each project. Following up with a safety stand-down allowed for additional mitigation strategies that can be shared with other field crews within the program. Working around slippery materials requires additional planning.
6/20/2016	Property Damage	Summit Station	Heavy Equipment Operator inadvertently contacted and severed a buried HF radio cable with the dozer blade.	Communicate institutional knowledge of facilities. Document utilities and distribute these maps prior to projects.
8/27/2016	Injury	Toolik Field Station	Toolik construction crew was installing general use boardwalk in a very boggy section of tundra with large tussock and deep mud. A Carpenter's foot got stuck in the mud, and resulted in a straining and twisting of their right knee. The employee was able to continue working.	Pass loads to co-workers instead of trying to walk and move in such sticky places.
10/28/2016	Injury	Summit Station	Science Tech was shoveling loose snow and felt a sensation of "blood throbbing" in the groin area. The worker was lifting loads of snow of a typical size but may have been more dense. Telemedicine support was received: Ibuprofen and ice was indicated as well as a work restriction to lift no more than 15lbs.	Instruct individuals to break up chunks of snow to make shoveling easier.
11/16/2016	Equipment	Summit Station	Mechanic attempted to use the MIG (Metal Inert Gas) welder. The worker switched on the ON/OFF switch and immediately noticed a burning plastic smell. The worker glanced down at the leads and when they looked up there was a large quantity of smoke coming from the welder power cord. The worker immediately switched off the machine and pulled the plug from the wall, opened the bay door and turned on the fans to clear out the smoke. Welder is locked and tagged - investigation ongoing.	Check over equipment before using. Always respond to smoke, smells or other indications that equipment is malfunction.
4/3/2017	Injury	Summit Station	Science Tech was walking from the Green House to TAWO and rolled ankle. The employee was able to continue walking and working. No restriction to duty as a result of the event.	All individuals should take extra care walking in flat light conditions.
4/18/2017	Injury	Kangerlusuaq	While walking from the 415 warehouse towards the vehicle parking area, Cargo Manager slipped on a patch of ice and fell. No restriction to duty as a result of the event.	Assess locations to ensure a means exist to mitigate slick conditions, if this is not the case consider a container with sand inside of the nearest buildings so workers may utilize as needed. Use traction devices, such as Yaktrax.

4/27/2017	Material Release	Summit Station	Stored equipment leaked Diesel to the ground which soaked through the impermeable liner and onto the wood underneath. It was identified and the leak repaired (leaking line). The damaged material was replaced.	Material needs to be adequate to stop leaks which are prone to occur in the cold environment. Vehicle inspections need to be considered for stored vehicles.
4/28/2017	Property Damage	Summit Station	While attempting to move a shed, the loader operator lifted the shack and it broke apart. Further investigation identified a large amount of ice build up behind and adjacent to the shed which held it in place causing the damage.	When moving any item in this environment, one needs to consider the effect ice accumulation can have and perform an adequate amount of digging by hand in advance of the lifting
5/22/2017	Injury	Summit Station	Worker cut finger while preparing meal in the kitchen, medical care given and area decontaminated	Raise awareness in the general population, attention to detail needs to remain high to avoid injury
5/22/2017	Injury	Kangerlus suaq	While using a drop saw an employee received a foreign body in the eye, the local medic was able to remove it using a swab and wiping technique. All required PPE was in place at the time	A test of the machine and reading of industry standard and the manufacturers manual identified that the current PPE is adequate and this was an outlier event. No change to current practice
6/12/2017	Property Damage	Kangerlus suaq	While unloading a K-Loader from a vessel the loader was inadvertently damaged. The local PFS staff were made aware of the damage however the vessel had left port by this time making any in depth investigation into causal factors impossible. CH2M filed a claim with the shipping company to recover the damage costs of roughly \$300.00	None, this event was outside of CPS control
6/17/2017	Property Damage	Summit Station	At 7:15 AM the Summit Station cook came into the Big House and notified the Station Manager there was arcing observed by the sewer outfall. Both employees went to investigate. The Station Manager returned for a fire extinguisher and notified the Construction and Technical Services Manager of the event. The heat trace was arcing, which had lit the outer shell of the heat trace on fire. The fire was extinguished with minimal damage.	Inspect all locations for adequate breakers. Assess and adjust all breaker panels to ensure responders can read the information quickly and clearly. Megger test all new heat trace installations moving forward to ensure no internal fault.

8/10/2017	Injury	Summit Station	<p>Employee reported to Station Medic at 1500 on Thursday 8/10/2017. Chief complaint was a sprained right wrist. Injury occurred during hand carry operation of hand tools – socket wrench and coat rack from Science and Operations Barn (SOB) to Summit Mobile Garage (SMG). Patient fell after slipping on hard compacted icy snow, covered by new wind deposition, and hyper extended wrist while bracing the fall.</p> <p>Employee advised Supervisor of the incident and visited Station Medic. On examination Medic diagnosed a sprain with a slight possibility of a dislocated bone. Medic rigid splinted the wrist for minimal movement (Sam splint and Ace bandage). Further inspection confirmed the need for a rigid splint. Employee will likely need an x-ray when they leave location. Approved to remain at location and work at this time.</p>	<p>Develop a one page document explaining the Vibram Ice sole and its benefits. Ensure the groups exposed to this hazard review the document.</p> <p>In tool box talks, remind all staff of the importance of proper walking surface preparation. Reference this incident and explain the expectation of every worker that they stop and take action when they observe risky conditions</p> <p>Determine which locations could have buckets in place with gravel, for spreading onto identified icy surfaces</p> <p>Assign a competent individual to walk the common foot traffic areas and identify the top 10% of at risk areas.</p> <p>Run a competition for the hands, ask for ideas to prevent fall related injuries on ice and snow areas.</p>
10/20/2017	Spill	Summit Station	<p>At Summit Station, early this morning an employee noticed that the bulk water tank was nearly empty. After further investigation, it was clear that a hose which circulates/filters the water to prevent freezing in the sub-zero temperatures had slipped from the tank, during the night. Approximately 800 gallons of fresh water leaked onto the floor in the snow melter, and through cracks and gaps, to the ground. No noticeable damage was caused to the building, and the employee walked the area to identify any additional hazards created by the release, none were apparent. The onsite staff added snow to the snow melter this morning, to start the process to replace the lost water. The system is stable and there are no further issues with the plumbing. Water conservation practices are in place to allow the reservoir to build back up. The onsite team will also be monitoring the water systems, to ensure no further issues arise.</p>	<p>The hose will be replaced and secured in such a manner that this style event cannot occur in the future. - The system is slated to be re-designed in 2018, which will assist further with the prevention of future releases</p>

10/31/2017	Property Damage	Summit Station	<p>A CPS employee was switching a power transfer switch at Summit station when the switch movement felt odd, further investigation revealed the switch had broken. On the 31st of October, the Summit Station team switched power from the Micro Turbine generator to the diesel generators, necessitated by snow entering the Micro Turbine air intake and clogging the filter. The process worked smoothly and the station was on diesel generator power with no initial issues. When the Micro Turbine is shut down, power to its building is provided by back-feeding from the main distribution panel. This is necessary to ensure the facility does not cool down and freeze. A switch located on the exterior of the Micro Turbine facility must be switched from turbine power to shore power. An employee conducted this action, however the switch did not feel like it had functioned as it should. Further investigation revealed the switch was packed with ice/snow preventing the contacts from being engaged completely. The onsite team then called out of station for guidance. Following that call, the switch was isolated/tagged out and the ice/snow melted, revealing the fact that the switch was broken. The team removed the switch to attempt repair. Temporary heat was provided for the Micro Turbine Facility using a temporary power feed from the Green House. Interior temperatures are thus far sufficient to keep equipment from being damaged.</p>	<p>Determine appropriate specification for the exterior electrical panel and order/replace</p> <ul style="list-style-type: none"> <li>• Create a Lessons Learned Document, designed to request other Arctic locations to inspect their facilities for similar concerns</li> <li>• Explore options for preventing snow from entering the Micro Turbine facility over the winter</li> </ul>
11/11/2017	Injury	Summit Station	<p>At 11:00 an individual departed Summit Station, Greenland to conduct measurements for the bamboo forest accumulation project (A NASA Scientific Research Project). Temperatures were approximately -55F and wind speeds approximately 12 knots from the west at the time. Before leaving the worker ensured all skin was covered with a balaclava, neck gaiter, hat, goggles, and hard-shell jacket with a hood. Upon arrival at the bamboo forest the goggles were frosted up so the worker changed them out with a spare set. These also fogged up and were pushed onto the individuals' forehead to better see. However, this exposed the skin around the eyes. At regular intervals, the worker stopped and pulled up their neck gaiter to breath into it and warm the face. Upon returning to the Green House Facility at 13:00 the worker discovered frostbite blisters along both cheek bones, changed out their ECW and called the medic. The winter medic assessed the injury finding a ~1in x 3/4in blister on the left cheek bone and three smaller blisters covering an area of ~1in x 1/4in on the right cheek. There was no cyanosis and the tissue appeared to be fully re-warmed with full profusion. Swelling was moderate and pain was rated at a 1 or a 2. The medic recommended a warm shower, being very gentle with the injured area, and ibuprofen as needed. At 13:24 The medic contacted UCD to confirm treatment. They confirmed general rewarming, ibuprofen as needed, and avoid exposure for the next week.</p>	<p>Corrective Actions: - Review Winter Travel and Extreme Cold Weather policies and edit as needed. - Supply a more appropriate PPE for outdoor work, research anti-fog goggles and consider adding to inventory. - Review the orientation materials to ensure subject matter experts believe they are adequate to avoid repeat of this event. Lessons Learned: - Solo travel puts individuals at risk of not noticing when frostbite is occurring. When possible, employees will travel in teams to watch out for each other. - Stop and consider all implications when you remove an article of PPE. - Ensure pre-task plans for outdoor work include a review of the weather, and always consider the question "does this have to be done today?".</p>