

Maintenance sheet version 10 for accumulation area (single mast, two levels)

Station name	NAE old_style_mast 2023
People present	ASO, CLAN, NSK, OEW + Gummie, Björn
Purpose	Maintenance / installation / take-down / quick visit / emergency
Date	23 06 2023

Notes: Retrieve old equipment and mast (basically everything from OLD station)

AWS to do list		Check after maintenance			
Part	Shipped? (Y/N)	Replaced? (Y/N)	Number shipped/arrival	Number departure	
Radiometer	N	N			Clean? Y / N
Iridium modem IMEI number	N	-			
Inclinometer/compass	N	-			Attached to the radiometer? Y / N
Satellite antenna	N	-			
Wind sensor upper	N	-			Black box pointing toward the radiometer (i.e., along the boom)? Y / N
Wind sensor lower	N	-			Black box pointing same direction as the radiometer? Y / N
Temperature / humidity assembly upper	N	-			Fan spins? Y / N Sounds, OK? Y / N
Temperature / humidity assembly lower	N	-			Fan spins? Y / N Sounds, OK? Y / N
Sonic ranger upper	N	-			Old sensor with new membrane? Y / N
Sonic ranger lower	N	-			Old sensor with new membrane? Y / N
Thermistor string	N	-			
Solar panel	N	-			Clean? Y / N NB: is not effective when partially covered
GPS antenna	N	-			At top of logger enclosure? Y / N
Logger box ID	N	-			CR1000 or CR1000X? ID number:
Logger enclosure	N	-			Replaced (including everything inside)? Y / N New desiccant bags? Y / N
Battery box	N	-			New box? Y / N New desiccant bags? Y / N
Mast extension inserted?	N	-			How many inserted? How long? Notes:
Mast	N	✓			New mast? Y / N New sensor boom? Y / N

Station name	NAE old_style_mast 2023
Date	23062023

Metadata maintenance

	Arrival	Departure
Time difference between logger clock and UTC (\pm mm:ss)	+5:08	+5:08 / 0
Download data to PC and/or change SD card (wait for green light)	(Y/N)	(Y/N)
Name of logger program	Goes 09.CK1	
Screen dump of values in fast scan mode	Y/N	(Y/N)
Photos of mast, sensors, logger box wiring etc. (more is better)	(Y/N)	Y/N
Mast tilt towards radiometer (- if looking up)	+5 °	°
Mast tilt across boom looking from radiometer (- if clockwise)	0 °	°
Upper boom direction with radiometer relative to north	180 ° true/magn.	° true/magn.
Lower boom perpendicular to upper boom. If not, measure.	N/A Y/N °	Y/N °
Box on upper wind sensor exactly same direction as radiometer? If not, measure.	220 Y/N °	Y/N °
Box on lower wind sensor exactly same direction as radiometer? If not, measure.	0 (Y/N) °	Y/N °
Upper temperature / humidity height (bottom of casing – surface)	161 cm	cm
Lower temperature / humidity height (bottom of casing – surface)	69 cm	cm
Upper sonic ranger height (bottom of casing – surface)	111 cm	cm
Lower sonic ranger height (bottom of casing – surface)	20 cm	cm
Length of thermistor string on surface from surface marking	N/A cm	cm
Apparent damage to sensors? If yes, which?	Y/N	Y/N

Notes:

Take down
 left standing
 Multiple booms weight restric. on plane
 left exploded battery box from GC Net
 station by mast. ~6 cells.

Must-do at next visit:

Maintenance sheet version 10 for accumulation area (single mast, two levels)

Station name	NAU old_style_mast 2023	Gunnar Bjorn
People present	NBK, CLAN, no, OEW, + pilates	
Purpose	Maintenance / installation / take-down / quick visit / emergency	
Date	18-06-2026	

Notes: Retrieve old equipment and mast (basically everything from OLD station)

AWS to do list		Check after maintenance			
Part	Shipped? (Y/N)	Replaced? (Y/N)	Number shipped/arrival	Number departure	
Radiometer	N	N	Q 95094		Clean? Y / N
Iridium modem IMEI number	N	N			
Inclinometer/compass	N	N			Attached to the radiometer? Y / N
Satellite antenna	N	N			
Wind sensor upper	N	N			Black box pointing toward the radiometer (i.e., along the boom)? Y / N no wind sensor
Wind sensor lower	N	N			Black box pointing same direction as the radiometer? Y / N
Temperature / humidity assembly upper	N	N			Fan spins? Y / N Sounds, OK? Y / N
Temperature / humidity assembly lower	N	N			Fan spins? Y / N Sounds, OK? Y / N
Sonic ranger upper	N	N			Old sensor with new membrane? Y / N no SR so cold
Sonic ranger lower	N	N			Old sensor with new membrane? Y / N
Thermistor string	N	N			
Solar panel	N	N			Clean? Y / N NB: is not effective when partially covered
GPS antenna	N	N			At top of logger enclosure? Y / N
Logger box ID	N	N			CR1000 or CR1000X? ID number:
Logger enclosure	N	N			Replaced (including everything inside)? Y / N New desiccant bags? Y / N
Battery box	N	N			New box? Y / N New desiccant bags? Y / N
Mast extension inserted?	N	N			How many inserted? How long? Notes: NO
Mast	N	N			New mast? Y / N New sensor boom? Y / N

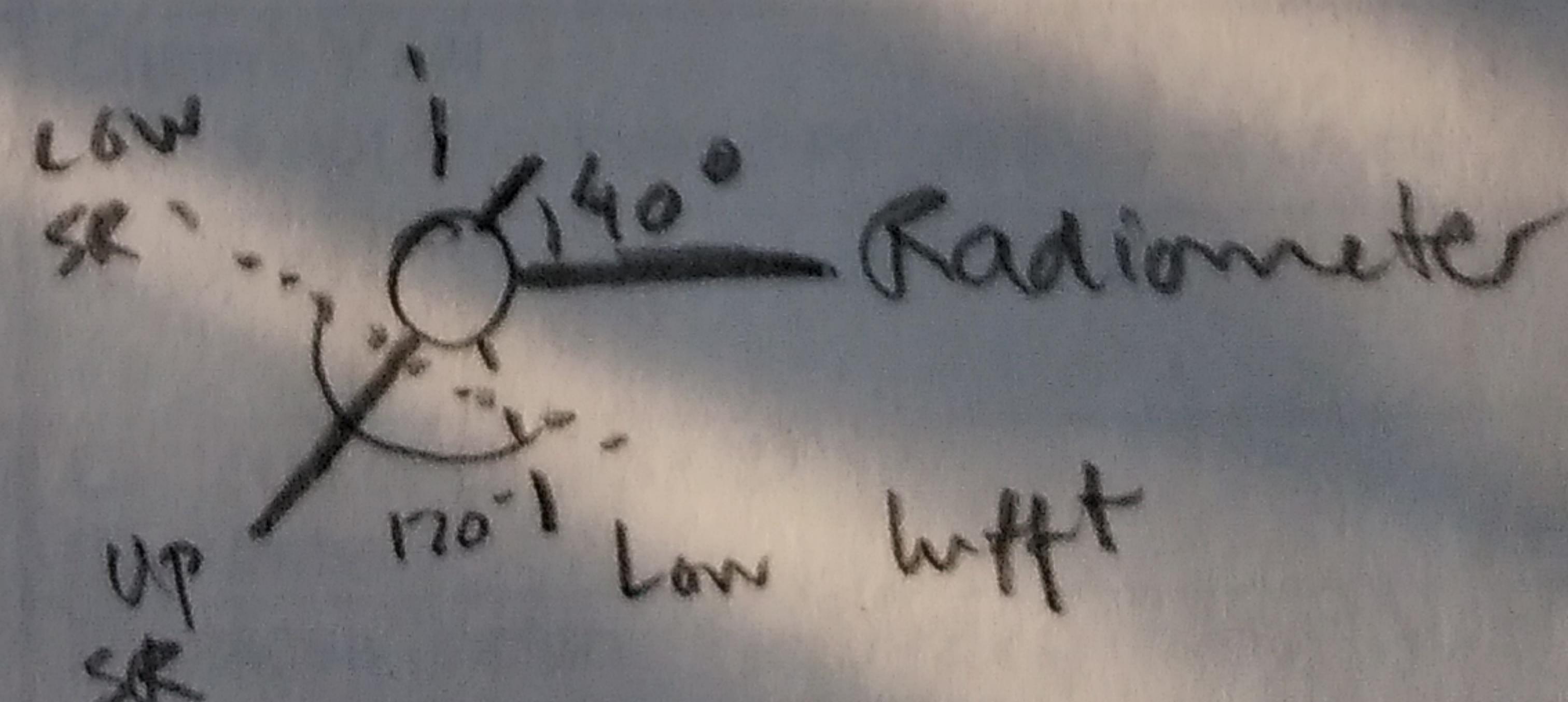
Station name	NAU old_style_mast 2023
Date	18 - 06 - 2023

Metadata maintenance

	Arrival	Departure
Time difference between logger clock and UTC (\pm mm:ss)		
Download data to PC and/or change SD card (wait for green light)	Y/N	Y/N
Name of logger program		
Screen dump of values in fast scan mode	Y/N	Y/N
Photos of mast, sensors, logger box wiring etc. (more is better)	Y/N	Y/N
Mast tilt towards radiometer (- if looking up)	- 6°	°
Mast tilt across boom looking from radiometer (- if clockwise)	- 1°	°
Upper boom direction with radiometer relative to north	° true/magn.	° true/magn.
Lower boom perpendicular to upper boom. If not, measure.	Y/N °	Y/N °
Box on upper wind sensor exactly same direction as radiometer? If not, measure.	N/A °	Y/N °
Box on lower wind sensor exactly same direction as radiometer? If not, measure.	10° towards east Y/N °	Y/N °
Upper temperature / humidity height (bottom of casing – surface)	N/A cm	cm
Lower temperature / humidity height (bottom of casing – surface)	160 cm	cm
Upper sonic ranger height (bottom of casing – surface)	175 cm	cm
Lower sonic ranger height (bottom of casing – surface)	35 cm	cm
Length of thermistor string on surface from surface marking	cm	cm
Apparent damage to sensors? If yes, which?	Y/N	Y/N

Notes:

Radiometer damaged



Must-do at next visit:

Maintenance sheet version 10 for accumulation area (single mast, two levels)

Station name	TUN old_style_mast 2023
People present	NSR, CLAN, BEW, ASO, Nico, Pilots
Purpose	Maintenance / installation / take-down / quick visit / emergency
Date	10/06/2023

Notes: Retrieve old equipment and mast (basically everything from OLD station)

AWS to do list		Check after maintenance			
Part	Shipped? (Y/N)	Replaced? (Y/N)	Number shipped/arrival	Number departure	
Radiometer	N				Clean? Y / N
Iridium modem IMEI number	N				
Inclinometer/compass	N		Attached to the radiometer?	Y / N	
Satellite antenna	N				
Wind sensor upper	N		Black box pointing toward the radiometer (i.e., along the boom)?	Y / N	
Wind sensor lower	N		Black box pointing same direction as the radiometer?	Y / N	
Temperature / humidity assembly upper	N		Fan spins? Sounds, OK?	Y / N	
Temperature / humidity assembly lower	N		Fan spins? Sounds, OK?	Y / N	
Sonic ranger upper	N		Old sensor with new membrane?	Y / N	
Sonic ranger lower	N		Old sensor with new membrane?	Y / N	
Thermistor string	N				
Solar panel	N		Clean? NB: is not effective when partially covered	Y / N	
GPS antenna	N		At top of logger enclosure?	Y / N	
Logger box ID	N		CR1000 or CR1000X? ID number:		
Logger enclosure	N		Replaced (including everything inside)? New desiccant bags?	Y / N	
Battery box	N		New box? New desiccant bags?	Y / N	
Mast extension inserted?	N		How many inserted? How long? Notes:		
Mast	N		New mast? New sensor boom?	Y / N	

Station name	TUN old_style_mast 2023
Date	20 - 06 - 2023

Metadata maintenance

	Arrival	Departure
Time difference between logger clock and UTC (\pm mm:ss)		
Download data to PC and/or change SD card (wait for green light)	Y/N	Y/N
Name of logger program		
Screen dump of values in fast scan mode	Y/N	Y/N
Photos of mast, sensors, logger box wiring etc. (more is better)	Y/N	Y/N
Mast tilt towards radiometer (- if looking up)	-1 °	°
Mast tilt across boom looking from radiometer (- if clockwise)	+1 °	°
Upper boom direction with radiometer relative to north	° true/magn.	° true/magn.
Lower boom perpendicular to upper boom. If not, measure.	Y/N °	Y/N °
Box on upper wind sensor exactly same direction as radiometer? If not, measure.	5 ° left Y/N °	Y/N °
Box on lower wind sensor exactly same direction as radiometer? If not, measure.	Y/N °	Y/N °
Upper temperature / humidity height (bottom of casing – surface)	220 cm	cm
Lower temperature / humidity height (bottom of casing – surface)	135 cm	cm
Upper sonic ranger height (bottom of casing – surface)	166 cm	cm
Lower sonic ranger height (bottom of casing – surface)	144 cm	cm
Length of thermistor string on surface from surface marking		cm
Apparent damage to sensors? If yes, which?	Y/N	Y/N

Notes:

SR membranes broken

taken down
left solar panels + 2 booms

Must-do at next visit:

Maintenance sheet version 10 for accumulation area (single mast, two levels)

Station name	DY2 old_style_mast 2023
People present	
Purpose	Maintenance / installation / take-down / quick visit / emergency
Date	

Notes: Retrieve old equipment and mast (basically everything from OLD station)

AWS to do list		Check after maintenance			
Part	Shipped? (Y/N)	Replaced? (Y/N)	Number shipped/arrival	Number departure	
Radiometer	N				Clean? Y / N
Iridium modem IMEI number	N				
Inclinometer/compass	N		Attached to the radiometer? Y / N		
Satellite antenna	N				
Wind sensor upper	N		Black box pointing toward the radiometer (i.e., along the boom)? Y / N		
Wind sensor lower	N		Black box pointing same direction as the radiometer? Y / N		
Temperature / humidity assembly upper	N		Fan spins? Y / N Sounds, OK? Y / N		
Temperature / humidity assembly lower	N		Fan spins? Y / N Sounds, OK? Y / N		
Sonic ranger upper	N		Old sensor with new membrane? Y / N		
Sonic ranger lower	N		Old sensor with new membrane? Y / N		
Thermistor string	N				
Solar panel	N		Clean? Y / N NB: is not effective when partially covered		
GPS antenna	N		At top of logger enclosure? Y / N		
Logger box ID	N		CR1000 or CR1000X? ID number:		
Logger enclosure	N		Replaced (including everything inside)? Y / N New desiccant bags? Y / N		
Battery box	N		New box? Y / N New desiccant bags? Y / N		
Mast extension inserted?	N		How many inserted? How long? Notes:		
Mast	N		New mast? Y / N New sensor boom? Y / N		

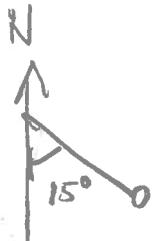
Station name	DY2 old_style_mast 2023
Date	14 Jun

Metadata maintenance

	Arrival	Departure
Time difference between logger clock and UTC (\pm mm:ss)		
Download data to PC and/or change SD card (wait for green light)	Y / N	Y / N
Name of logger program		
Screen dump of values in fast scan mode	Y / N	Y / N
Photos of mast, sensors, logger box wiring etc. (more is better)	(Y) N	Y / N
Mast tilt towards radiometer (- if looking up)	- 0 °	°
Mast tilt across boom looking from radiometer (- if clockwise)	°	°
Upper boom direction with radiometer relative to north	✓, ° true/magn.	° true/magn.
Lower boom perpendicular to upper boom. If not, measure.	Y / N °	Y / N °
Box on upper wind sensor exactly same direction as radiometer? If not, measure.	Y / N 0 °	Y / N °
Box on lower wind sensor exactly same direction as radiometer? If not, measure.	Y / N 0 °	Y / N °
Upper temperature / humidity height (bottom of casing – surface)	253 cm	cm
Lower temperature / humidity height (bottom of casing – surface)	139 cm	cm
Upper sonic ranger height (bottom of casing – surface)	235 cm	cm
Lower sonic ranger height (bottom of casing – surface)	181 cm	cm
Length of thermistor string on surface from surface marking	N/A cm	cm
Apparent damage to sensors? If yes, which?	(Y) N	Y / N

Notes:

Radiometer angle to



Must-do at next visit:

- Broken Net Radiometer
- Upper SR05 members bad
- lower ————— bad
- a bit of ice in bottom of old CIRCS station casing