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APPENDIX 12-5

LIDAR INSTALLATION REPORT

on behalf of

DATA
STRUCTURES
EXPERTS IN ELEVATED ENGINEERING

by Metrologic Lab

Metrologic Lab

www.metlab.tech

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PREPARED by

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Works journal

Gannow met mast installation | Version 1.0

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Works log

Works completed	Date	Reference No.	Document version
Installation of met mast	29/07/2022	DS3793	1.0

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Scheduled maintenance

We recommend that all SLX temporary met masts are serviced annually prior each winter season and following any major storms.

Works completed	Date	Reference No.	Document version
Met mast maintenance visit			



Installation

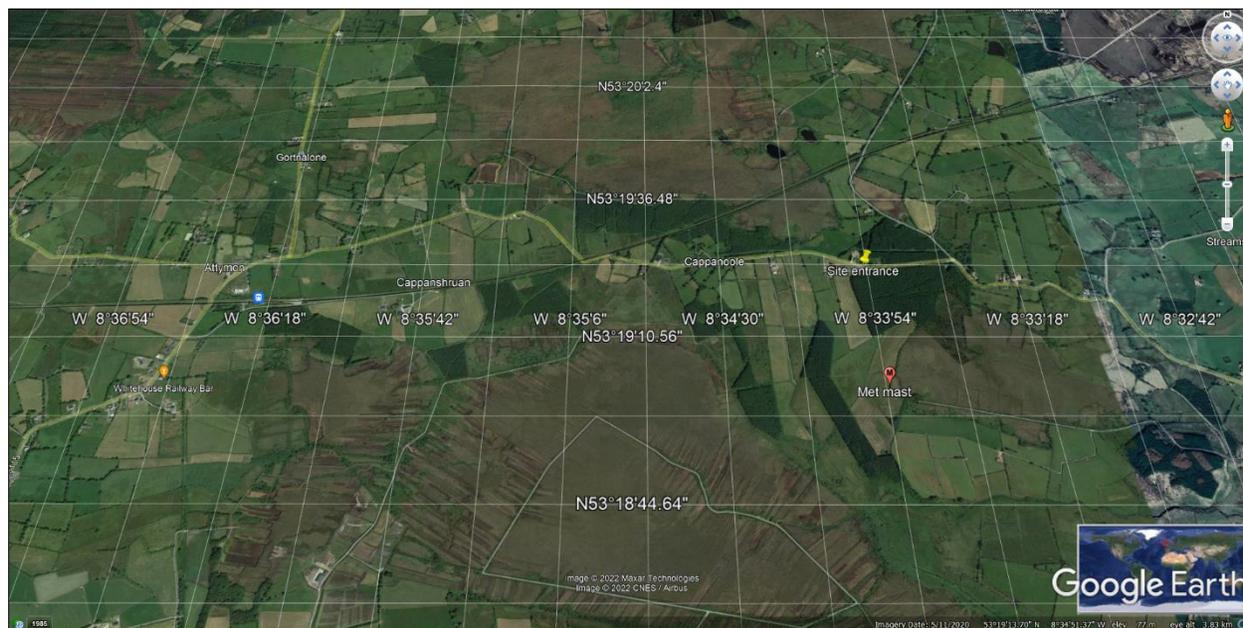
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Site location, entrance and access details

Site is in located near Galway. Not far from M6 motorway and east from Galway city.

Site contact/detail	Information
Site manager	Daniel Forde
Phone number	
Email	

Entrance coordinates	
Latitude / Longitude (degrees, min, sec)	
53°19'23.00"N	8°33'55.00"W
Latitude / Longitude (decimal)	
53.323056° N	8.565278° W



Mast location and site description

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	<table border="1"> <tr> <td colspan="2">Latitude / Longitude (degrees, min, sec)</td> </tr> <tr> <td>53°19'02.0"N</td> <td>8°33'53.3"W</td> </tr> <tr> <td colspan="2">Latitude / Longitude (decimal)</td> </tr> <tr> <td>53.317222° N</td> <td>8.564806° W</td> </tr> <tr> <td colspan="2">Irish Grid</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> <tr> <td colspan="2">ITM</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> <tr> <td colspan="2">Elevation a.s.l. (m): 78.00</td> </tr> </table>	Latitude / Longitude (degrees, min, sec)		53°19'02.0"N	8°33'53.3"W	Latitude / Longitude (decimal)		53.317222° N	8.564806° W	Irish Grid		N/A	N/A	ITM		N/A	N/A	Elevation a.s.l. (m): 78.00		
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Site is in non-forestry area with grassland on the top of the mountain.



Structure details

Type	Face width, mm	Leg diameter, mm	Section length, m
Lattice	380	33	2.5

Height, m	Diameter / Face width, mm
80	60.3
76	380
65	380
61	380
50	380
46	380
35	380
10	380
5	380
0	380

Anchor lane No	Orientation	1st point radius, m	2nd point radius, m	3rd point radius, m	4th point radius, m	5th point radius, m
1	45°	21	42	56	N/A	N/A
2	165°	21	42	56	N/A	N/A
3	285°	21	42	56	N/A	N/A
Guy level, m		7.5, 15, 22.5, 30	37.5, 45, 52.5, 60	67.5, 72.5, 77.5	N/A	N/A



Sensor #1 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Boom	1250	33	660	33	315	60	29/07/2022

ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
V1	Anemometer	Thies	4.3351.10.000	01222756	80.020	N/A	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
220094	17/01/2022	0.045849	0.248808	0.045849	0.248808	29/07/2022

Sensor #2 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Boom	1250	33	660	33	135	60	29/07/2022

ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
V2	Anemometer	Thies	4.3351.10.000	01222757	80.020	N/A	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
220095	17/01/2022	0.045813	0.246001	0.045813	0.246001	29/07/2022

All sensor heights provided, are taken from the top of the mast foundation frame



Sensor #3 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Boom	1900	33	875	33	315	380	29/07/2022

ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
V3	Anemometer	Thies	4.3351.10.000	01222758	65.040	N/A	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
220096	17/01/2022	0.045723	0.270756	0.045723	0.270756	29/07/2022

Sensor #4 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Boom	1900	33	875	33	135	380	29/07/2022

ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
V4	Anemometer	Thies	4.3351.10.000	01222759	64.580	N/A	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
220097	17/01/2022	0.045827	0.245785	0.045827	0.245785	29/07/2022

All sensor heights provided, are taken from the top of the mast foundation frame



Sensor #5 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Boom	1900	33	875	33	315	380	29/07/2022

ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
V5	Anemometer	Thies	4.3351.10.000	01222760	50.050	N/A	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
220098	17/01/2022	0.045892	0.23457	0.045892	0.23457	29/07/2022

Sensor #6 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Boom	1900	33	875	33	135	380	29/07/2022

ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
V6	Anemometer	Thies	4.3351.10.000	01222761	49.870	N/A	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
220099	17/01/2022	0.045790	0.249276	0.045790	0.249276	29/07/2022

All sensor heights provided, are taken from the top of the mast foundation frame



Sensor #7 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Boom	1900	33	875	33	315	380	29/07/2022

ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
V7	Anemometer	Thies	4.3351.10.000	01222762	35.130	N/A	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
220100	17/01/2022	0.045841	0.240612	0.045841	0.240612	29/07/2022

Sensor #8 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Boom	1900	33	440	33	315	380	29/07/2022

ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
V8	Anemometer	Comptus	A75-104	970-5617	10.030	N/A	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
21.US2.10190	14/01/2022	0.75610	0.31761	0.75610	0.31761	29/07/2022

All sensor heights provided, are taken from the top of the mast foundation frame



Sensor #9 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Boom	1900	33	870	33	315	380	29/07/2022

ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
D1	Wind vane	Thies	4.3129.10.701	10211903	75.940	135	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Sensor #10 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Boom	1900	33	870	33	315	380	29/07/2022

ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
D2	Wind vane	Thies	4.3129.10.701	10211904	60.960	135	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
N/A	N/A	N/A	N/A	N/A	N/A	N/A

All sensor heights provided, are taken from the top of the mast foundation frame



Sensor #11 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Boom	1900	33	870	33	315	380	29/07/2022

ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
D3	Wind vane	Thies	4.3129.10.701	10211905	45.950	135	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Sensor #12 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Bracket	N/A	N/A	N/A	N/A	315	380	29/07/2022

ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
TRH1	Temp/RH	Galltec+Mela	KPC1.S/6-ME	250592	4.900	N/A	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
N/A	N/A	N/A	N/A	N/A	N/A	N/A

All sensor heights provided, are taken from the top of the mast foundation frame



Sensor #13 details

Type	Length, mm	Diameter ϕ , mm	Upstand height, mm	Upstand diameter ϕ , mm	Orientation, °	Structure width, mm	Installation Date
Inside logger enclosure	N/A	N/A	N/A	N/A	N/A	380	29/07/2022

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ID	Type	Manufacturer	Model	Serial number	Installation height, m	North Point Orientation, °	Installation Date
P1	Pressure	Ammonit	AB60	B22-0031	2.000	N/A	29/07/2022

Calibration certificate number	Calibration date	Slope value on calibration certificate	Offset value on calibration certificate	Slope value applied	Offset value applied	Installation Date
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Data acquisition system details

ID	Type	Manufacturer	Model	Serial number	Installation height, m	Installation Date
Gannow	Data logger	Ammonit	M40Plus	D220018	1.500	29/07/2022
Gannow	Modem	N/A	PHS-8	N/A	1.500	29/07/2022
Gannow	Solar charger	Steca	PR1010	N/A	1.500	29/07/2022
Gannow	Battery	N/A	12 V 80Ah	N/A	1.500	29/07/2022
Gannow	PV panel	N/A	150W	N/A	1.500	29/07/2022
Gannow	SIM card	N/A	N/A	894410003 028536642 09	1.500	29/07/2022

All sensor heights provided, are taken from the top of the mast foundation frame

