

## Types of observing platforms for OSCAR/Surface<sup>1</sup>

The table below provides the list of observing platform types to be considered for recording their platform/instrument metadata in OSCAR/Surface. The last column indicates in which OSCAR development phase<sup>2</sup> these should be included.

<b>Abbrev</b>	<b>Name of Platform Type</b>	<b>Code</b>	<b>Metadata Type</b>	<b>Approximate number of operational stations<sup>3</sup></b>	<b>Information provided by</b>	<b>Current source(s) or plans</b>	<b>OSCAR development phase</b>
Syn	Surface synoptic station	0001	Point	4500	Members, EUMETNET	Vol. A <sup>4</sup>	1
Clim	Surface climatological station	0002	Point	3000	Members, EUMETNET (potentially)	Vol. A	1
AWS	Automatic Weather Station	0003	Point	5000	Members, EUMETNET	Vol. A	1
Radiation	Radiation station	0050	Point	600	Members, and possibly other groups	GAWSIS <sup>5</sup> and WRDC <sup>6</sup> and BSRN <sup>7</sup>	1
UA	Upper-air synoptic and reference station	0100	Point <sup>8</sup>	1500	Members, EUMETNET	Vol. A/Catalogue of radion-sondes <sup>4</sup> GUAN lead centre <sup>9</sup>	1
ASAP	Automated	0110	Low	30	Members,	Under development <sup>10</sup>	2

1 List to be completed as needed

2 Phase 1: 201306-201504; Phase 2: 201504-201704

3 Number of operational stations at a time, whether current (e.g. buoys) or planned (e.g. WHYCOS). Number of stations to record in the database shall be higher as historical stations have to be recovered as well. This number will depend on the average life-time of the stations, and replacement and deployment strategies.

4 <http://www.wmo.int/pages/prog/www/ois/volume-a/vola-home.htm> ; <http://www.wmo.int/pages/prog/www/ois/rbsn-rbcn/rbsn-rbcn-home.htm>

5 <http://gaw.empa.ch/gawsis/>

6 <http://wrdc.mgo.rssi.ru/>

7 <http://www.bsrn.awi.de/>

8 Although making vertical profiles, the station is regarded as a point (snapshot for mobiles) in the OSCAR metadata framework. Metadata will then include information about vertical range, and capabilities in each layer where observations are made with the type of instrument.

9 <http://gosic.org/content/guan-data-access>

10 [http://www.jcomm.info/index.php?option=com\\_oe&task=viewDocumentRecord&docID=10472](http://www.jcomm.info/index.php?option=com_oe&task=viewDocumentRecord&docID=10472)

	Shipboard Aerological Profiler (ASAP)		speed mobile		EUMETNET		
WP	Wind profiler	0150	Point	300	Members, EUMETNET	TBD within the WIGOS Core metadata MeteoSwiss in charge of EUMETNET WPs	1
RSPS	Remote sensing profiling station	0101	Point	300	Members, EUMETNET (potentially)	TBD within the WIGOS Core metadata	2
Aircraft	Aircraft meteorological station	0200	High speed mobile	3000	Members, EUMETNET	Under development by AMDAR Panel & ET-ABO <sup>11</sup>	1
GAW	Global Atmospheric Watch station	0300	Point	1000	TBD	GAWSIS	1
Lightning	Lightning detection system station	0400	Point	1000	Members	TBD within the WIGOS Core metadata Private companies in charge of running these systems (e.g. Vaissala, Meteorage ...)	2
Hydro	Hydrological station	0500	Point	1000	TBD	WHYCOS <sup>12</sup>	1
			Point	TBD		All operational hydrological stations (TBD)	2

11 See Appendix V of Final Report of the WMO AMDAR Panel Session 15 at [http://www.wmo.int/pages/prog/www/GOS/ABO/AMDAR/panel/reports/AMDAR\\_Panel\\_XV\\_Final\\_Report.pdf](http://www.wmo.int/pages/prog/www/GOS/ABO/AMDAR/panel/reports/AMDAR_Panel_XV_Final_Report.pdf). See also discussed metadata format at [http://www.wmo.int/pages/prog/www/OSY/Meetings/AMDAR-Panel-15/INF.4.4.4\(1\)\\_AO\\_Metadata\\_Requirements\\_Workshop\\_June\\_2012.doc](http://www.wmo.int/pages/prog/www/OSY/Meetings/AMDAR-Panel-15/INF.4.4.4(1)_AO_Metadata_Requirements_Workshop_June_2012.doc) – Contact point at WMO Secretariat: Dean Lockett (dlockett@wmo.int)

12 <http://www.whycos.org/whycos/>

Ground_hyd	Ground station water	0501	Point	TBD	TBD	TBD	2
W_Radar	Weather station radar	0600	Polygon	1000	Members, EUMETNET	WMO Weather Radar Database (hosted by Turkey) <sup>13</sup>	1
RW_Radar	Road station weather	0700	Polygon	TBD	Members	TBD within the WIGOS Core metadata	2
Aero	Aeronautical meteorological station	0800	Point	3500	Members	Vol. A	1
				TBD	ICAO	METAR producing stations using ICAO station identifiers	2
Agro	Agricultural meteorological station	0900	Point	500	TDB	Vol. A	1
Urban	Urban meteorological station	1000	Point	TBD	Members,	TBD within the WIGOS Core metadata	2
DB	Drifting station buoy	2000	Low speed mobile	2000	JCOMMOPS	TBD with JCOMMOPS (2000 DBs yearly)	1
MB	Moored station buoy	2010	Point	200	JCOMMOPS	TBD with JCOMMOPS (200 MBs)	1
Ship	Ship station	2020	Low speed mobile	4000	JCOMMOPS E-SURFMAR	WMO Publication No. 47 <sup>14</sup> SOOP Metadata <sup>15</sup> ASAP: See ASAP in this table	1

13 <http://wrd.mgm.gov.tr/default.aspx>

14 Formal copy: <http://www.wmo.int/pages/prog/www/ois/pub47/pub47-home.htm>; Informal copy more up to date and complete to be used: <http://esurfmar.meteo.fr/doc/vosmetadata/index.php>

15 [http://www.jcommops.org/soop/soop\\_report.html](http://www.jcommops.org/soop/soop_report.html) ; and [http://www.jcommops.org/doc/metadata/submission\\_format.html](http://www.jcommops.org/doc/metadata/submission_format.html) - Note: report has not been routinely produced in the last 3 years; suggest to contact the SOT Technical Coordinator, Mr Martin Kramp (mkramp@jcommops.org) at JCOMMOPS for details.

RV	Research Vessels	2025	Low speed mobile	1000	JCOMMOPS	TBD with JCOMMOPS	2
Rigs	Ocean rigs and other fixed platform station	2030	Point	500	JCOMMOPS	TBD with JCOMMOPS & DBCP	2
ASS	Automatic sea station (fixed and mobile)	2040	Point, Mobile	1000	JCOMMOPS	TBD with JCOMMOPS & DBCP	2
Float	Profiling float	2050	Low speed mobile	4000	JCOMMOPS	Argo Information Centre (AIC) <sup>16</sup> at JCOMMOPS	1
Prof_Glider	Ocean sub-surface glider	2060	Low speed mobile	200	JCOMMOPS	TBD with JCOMMOPS <sup>17</sup>	2
Surf_Glider	Ocean surface glider	2070	Low speed mobile	200	JCOMMOPS	TBD with JCOMMOPS <sup>18</sup>	1
Tide_gauge	Tide gauge station	2080	Point	1000	GLOSS	TBD with IOC and GLOSS <sup>19</sup> for the sea-level stations monitored by the Sea level stations monitoring facility <sup>20</sup> , and the GLOSS Core Network <sup>21</sup> (normally included in the facility	1

16 [ftp://ftp.jcommops.org/Argo/Status/argo\\_all.txt](ftp://ftp.jcommops.org/Argo/Status/argo_all.txt) - See with Technical Coordinator of Argo, Mr Mathieu Belbéoch (belbeoch@jcommops.org) at JCOMMOPS for possible new format to include more metadata fields.

17 See with Technical Coordinator of Argo, Mr Mathieu Belbéoch (belbeoch@jcommops.org) at JCOMMOPS.

18 See Technical Coordinator of the DBCP, Ms Kelly Stroker (kstroker@jcommops.org) at JCOMMOPS

19 <http://www.gloss-sealevel.org/>

20 <http://www.ioc-sealevelmonitoring.org/>

21 [http://www.gloss-sealevel.org/network\\_status/glosscorenetwork10.html](http://www.gloss-sealevel.org/network_status/glosscorenetwork10.html)

						above)	
			Point	500	GLOSS	TBD with IOC and GLOSS <sup>22</sup> for the PSMSL <sup>23</sup> , and the University of Hawaii Sea Level Centre <sup>24</sup> for the real-time sea level stations (may overlap with stations managed as part of phase 1)	2
Tsunami	Tsunami	2090	Point	200	JCOMMOPS	TBD with JCOMMOPS	1
AOD	Aerosol Optical Depth		Point		NASA	WMO, Aeronet	2
GSWS	Ground based space weather observing systems		Point			WMO	2

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22 <http://www.gloss-sealevel.org/>

23 <http://www.psmsl.org/>

24 <http://www.soest.hawaii.edu/UHSLC/>