

Distinguish

- i) SOOP-XBT Platform Metadata
- ii) SOOP-XBT Cruise Metadata
- iii) SOOP-XBT RT Deployment Metadata
- iv) SOOP-XBT DM Deployment Metadata

Ad i) SOOP-XBT Platform Metadata: Metadata on XBT equipment, e.g.: launcher type, satellite system, software version. Submitted and updated by platform operators when installed or modified through online-form on www.jcommops.org or comma-separated (csv) file. The same platform might be active for a long period and establish numerous cruises without modification of the platform metadata. Goal: Show network capacities (e.g. WMO requirement)

Mandatory fields:

1. Operator Platform ID
2. JCOMMOPS Platform ID (assigned during JCOMMOPS platform registration)
3. National program/agency (choose from drop-down menu)
4. Unique Ship Reference (Query tool on JCOMMOPS website)
5. Installation date (YYYYMMDD in csv)
6. De-installation date (if applicable, YYYYMMDD in csv)
7. Launcher model (WMO code table 0 22 178)
8. Recorder type (WMO code table 0 22 068)
9. Firmware version
10. Telecom type (WMO code table 0 02 148 – only for near-real time platforms)
11. Standard deployment height (meters)
12. Target XBT line(s), if any
13. Metadata format version (if applicable, i.e. for csv submissions)

Optional field:

14. Comment (text)

Ad ii) SOOP-XBT Cruise Metadata: Metadata on cruises of ships equipped with an XBT platform, and actively deploying probes; e.g. departure date, line, ship. Submitted and updated by authorized platform operators through online-form on www.jcommops.org or comma-separated (csv) file. Goal: Estimate the future implementation of the XBT network, and also assist with the implementation of other networks (e.g. Argo, DBCP). Every single cruise must be submitted, so action is required regularly. Mandatory fields grow with the progress of the cruise status from “planned” to “confirmed”. “Planned” only means that an agency will try to set up a cruise, while “confirmed” means that the cruise is really going to happen. Based on submitted cruise dates and DM data submission, the status later changes automatically to “at sea”, “completed” and “DM metadata submitted”.

Mandatory fields:

1. Status (planned or confirmed)

Mandatory fields for status “planned”:

2. Line number (choose from drop-down menu or map)
3. National program/agency (choose from drop-down menu)

Mandatory fields for status “confirmed”:

4. Departure date (select estimated date from calendar tool, or YYYYMMDD in csv)
5. Arrival date (select estimated date from calendar tool, or YYYYMMDD in csv)
6. Unique Ship Reference (Query tool on JCOMMOPS website)
7. Operations Manager (choose from drop-down menu)
8. Metadata format version (if applicable, i.e. for csv submissions)

Optional fields:

9. Deployment opportunities (number of instruments)
10. Comment (text)

Ad iii) SOOP-XBT RT Deployment Metadata: Submitted by platform operators to GTS in appropriate BUFR format. Relevant metadata from the individual deployments are extracted and submitted to JCOMMOPS by Météo-France. Daily onboard action during XBT cruises. Goal: RT monitoring

Ad iv) SOOP-XBT DM Deployment Metadata: Submitted by platform operators to JCOMMOPS as csv file. Goal: Yearly JCOMM monitoring surveys for the global XBT network, including also deployments without RT submission. Yearly action, no later than March of year n for all deployments from all platforms of the same operator established in year n-1. In case of successive occupations of one or multiple lines by the same ship, every single leg has an individual cruise ID.

Mandatory fields:

1. Line number (e.g. AX01)
2. Operator Cruise ID
3. JCOMMOPS Cruise ID (assigned by JCOMMOPS)
4. Date (YYYYMMDD)
5. Time (HHMM)
6. GTS Platform ID
7. JCOMMOPS Platform ID
8. Unique Ship Reference (Query tool on JCOMMOPS website)
9. Latitude (in decimal degrees, N>0, S<0)
10. Longitude (in decimal degrees, E>0, W<0)
11. Deployment height
12. Instrument type (WMO code table 0 22 067)
13. Software / version
14. Probe serial number
15. Probe batch date (date of manufacture, YYYYMMDD)
16. Metadata format version

Optional fields:

17. Drop number
18. Quality flag ('good' if there is any good data in the profile, 'bad' if the entire profile fails)
19. Total depth
20. Comment (text)

WMO code tables from WMO 306, common tables:

http://library.wmo.int/opac/index.php?lvl=notice_display&id=10684

Validated version 2.1

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Send your metadata to SOT Technical Coordinator Martin Kramp, mkramp@jcommops.org