SOCIB Balearic Islands Coastal Observing and Forecasting System

SOCIB Instrumentation Application Naming Convention

SOCIB-Data Center Facility

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CHANGE RECORD

ver	Date	Description	Author	Checked by
1.0.0	2017-02-21	First version document	C. Munoz	M. Torner
1.0.1	2017-02-23	Added TNA mission code	M. Torner	C. Munoz
1.0.2	2018-11-11	Added CARTHE drifter	JG. Fernandez	
1.0.3	2018-11-12	Normalization	C. Muñoz	JG. Fernandez
1.0.4	2019-07-01	Test mission type for deployments convention. New URL metadata.	JG. Fernández	JG. Fernández
2.0.0	2020-11-04	Added new conventions regarding Cruises (naming and description)	P. Rotllán	JG. Fernández
2.0.1	2021-05-25	Review deployment and platform conventions	PR, MM	JGF
2.0.2	2021-10-28	Review naming conventions shared with the facilities	PR, MM	JGF
2.1.0	2022-05-11	Review naming conventions shared with the facilities, formatting test, adding ANNEX I, document previous name patterns.	MM	JGF, NZ, BC

Table of Contents

1. Introduction

The aim of this document is to describe a state of art of the naming patterns used in the Instrumentation Application ('management' database) for both the equipment (instruments, platforms and sensors) and the operations carried out (deployments and cruises). For more details on the above mentioned concepts, please check SPEC_DCF_SOCIB-Data-Representations-for-In-Situ-Obs. The most updated name patterns to be adopted by the facilities are also described.

1.1. Instruments

Details on the Instrument concept can be found in the SPEC_DCF_SOCIB-Data-Representations-for-In-Situ-Obs. Instrument names currently applied follow the tables below depending on the facility. Please refer to ANNEX I for the pattern elements and to ANNEX II for the institution codes.

***Table 1**. The table shows the Instrument Name pattern and relative examples for weather stations (MET), glider (SLDEEP), AWAC, RDi and HFR. The full list of instrument names can be found in DB_DCF_Deployments-extra-metadata (internal document).*

Pattern	Example
[institutionCode]-[internalInstrumentModel][internalUnitNumber]	SCB-MET008 SCB-SLDEEP004 SCB-RDi001 SCB-HFRFORM001 SCB-AWAC003 SCB-SGDEEP002

1.2. Platforms

Details on the platform concept can be found in the SPEC_DCF_SOCIB-Data-Representations-for-In-Situ-Obs. Platform names currently applied follow the tables below depending on the facility. Please refer to ANNEX I for the pattern elements.

***Table 2**. The table shows the platform name pattern for the High Frequency Radar.*

Pattern	Example
hf_radar_[LocationName]	hf_radar_ibiza

***Table 3**. The table shows the platform name pattern for the moorings.*

Type	Pattern	Example
Buoy	Buoy_**[LocationName]**	Buoy_**BahiaDePalma**
Mobims	Mobims_**[LocationName]**	Mobims_**PlayaDePalma**
Others	Station_**[LocationName]**	Station_**ColoniaSantPere**

***Table 4**. The table shows the platform name pattern for the Research Vessel.*

Pattern	Example
[ResearchVesselName]_RV	**SOCIB**_RV

***Table 5**. The table shows the platform name pattern for the animals.*

Type	Pattern	Example
sea-turtles	Turtle_**[turtleName]**	Turtle_**Llonguet**

***Table 6**. The table shows the platform name pattern for the surface drifters, as part of the Lagrangian platform facility.*

Pattern	Example
Drifter_**[ModelKeyword]**[internalUnitNumber]	Drifter_**SVP**068 Drifter_**SVPB**068 Drifter_**CARTHE**068 Drifter_**CODE**010 Drifter_**MIi**002 Drifter_**ODi**015 Drifter_**SPOT**003 Drifter_**ST**001

***Table 7**. The table shows the platform name pattern for the profilers, as part of the Lagrangian platform facility. Argo_Drifter_* prefix in names is deprecated. Therefore it is recommended to use Profiler_Drifter_* prefix instead. If the deployment of the platform is not the first time happening, a "_{WMO}" suffix will be added to the pattern.*

Pattern	Example
Profiler_Drifter_**[ModelKeyword]**[internalUnitNumber]	Profiler_Drifter_**ARVORI**001

***Table 8**. The table shows the platform name pattern for the gliders.*

Owner	Pattern	Example
SOCIB, IMEDEA	[OwnerInitial][depthCapability][internalUnitNumber]	sdeep02 icoast00
SCRIPPS	[modelKeyword][ManufacterNumber]	sp064 (sp = spray)
CNR	[gliderName]	teresa

1.3. Deployments

Deployments included in the database are currently named following different patterns and conventions. Since May 2021 rules were applied as shown in table 9 (Old Pattern 1.), while before that date, the patterns identified are Old Pattern 1. and 2. in Table 9. Historically, when a deployment was opened in the framework of a cruise, the following elements between cruise and deployment name were shared, [INSTITUTION]_[LABEL]. Aligning with description of the name elements provided in ANNEX III, a definitive pattern is indicated (Table 10).
Furthermore, a temporary solution has been adopted based on Google Spreadsheet for contextualizing both deployments and cruises at SOCIB in terms of ancillary metadata (DB_DCF_Deployments-extra-metadata, internal document).

***Table 9**. The table shows the different options for naming a deployment based on the facility's needs identified ante (Old Pattern 2. and 3.) and post (Old Pattern 1.) May 2021. Additional patterns might be included within the database which are not currently documented.*

Old Patterns	Examples
1. [INSTITUTION]_[LABEL]_[DATE]_[INSTRUMENT NAME]_[INFO]	SOCIB_ENLCanales_20210323_sdeep07_GFMR0114 SOCIB_ENLCanales_20210518_SCB-SVPB014 SOCIB_ENL-StationColoniaSantPere_20220411_SCB-BARO009
2. [INSTRUMENT NAME]_[INSTITUTION]_[TYPECODE]_[LABEL]_[DATE]_[INFO]	SCB-MET008_SOCIB_ENL_BahiaPalma_Mar2021 SCB-HFRGALF001_SOCIB_ENL_IbizaChannel_May2012
3. [INSTITUTION]_[TYPECODE]_[LABEL]_[DATE]_[INSTRUMENT NAME]_[INFO]	SOCIB_ENL_CANALES_JUN2020_SDEEP04_GFMR0103 SOCIB_ENL_CANALES_MAY2021_SCB-MET009 SOCIB_EXT_Alnitak_SEP2021_SCB-SPLASH022_Neus

***Table 10**. The table shows the deployment naming convention that will be adopted since the document is released. Examples are also shown. Rules and more detailed description of the name elements (Pattern) is provided in ANNEX III. The following pattern does not include within the LABEL element the information on the identification of the project and ancillary metadata (e.g. ENL, TST, ENG, TNT).*

Pattern	Examples
[INSTITUTION]_[LABEL]_[DATE]_[INSTRUMENT NAME]_[KEYWORD]	SOCIB_StationColoniaSantPere_20211005_PIB-SBE54004 SOCIB_CanalesSummeer22_20220807_SCB-MET009 SOCIB_CanalesSummeer22_20220807_sdeep07_GFMR0114 SOCIB_Ibiza_20211011_SCB-WAVE004 SOCIB-PARTHENOPE_ABACUS_20210522_sdeep04_GFMR0116

1.4. Cruises

Cruises are historically created when SOCIB RV is involved in the operations. At least GPS and weather (METEO) deployments are associated with the cruise within the database. Cruise names included within the database are currently named following different patterns and conventions (Table 11). There are other cases when SOCIB RV is not involved and the cruise is created accordingly. Aligning with description of the name elements provided in ANNEX III, a definitive pattern is defined (Table 12).
When a cruise is created, it is mandatory to share the following elements between cruise and deployment name, if instruments are installed during the cruise as part of the same observing program/project [INSTITUTION]_[LABEL].

***Table 11**. The table shows the different options for naming a cruise based on the facility's needs identified. Additional patterns might be included within the database which are not currently documented.*

Old Pattern	Examples
1. [INSTITUTION]_[LABEL]_[DATE]	SOCIB_ENLCanales_20211213
2. [LABEL]_[TYPECODE]_[LABEL 2]_DATE]	BluefinTuna_TSK_BalearicSEA_Jun2013
3. [INSTITUTION]_[TYPECODE]_[LABEL]_[DATE]	SOCIB_ENL_Canales_Jul2016 SOCIB_EXT_EA-RISE_Mar2020

***Table 12**. The table shows the cruise naming convention that will be adopted since the document is released. Examples are also shown. Rules and a more detailed description of the name elements (Pattern) is provided in ANNEX III. The following pattern does not include the information on the identification of the project and ancillary metadata (e.g. ENL, TST, ENG, TNT).*

Pattern	Examples
[INSTITUTION]_[LABEL]	SOCIB-SCRIPPS_CAYPSO23 SOCIB_CanalesSummer22

Annex

ANNEX I: Elements for instrument and platform pattern

***Table 13**. The table provides a description of the different elements used within the name patterns.*

Element	Description
InstitutionCode	The code includes the institution to which the instrument belongs. The updated list of acronyms is included in ANNEX II.
InternalInstrumentModel	It identifies the physical instrument used for the deployment. This code is not currently documented. For more details on the full list of codes, please refer to the instrument catalog accessible from the instrumentation application.
InternalUnitNumber	It identifies the specific number according to the internal instrument catalog.
LocationName	In the case of the platform, this code includes a short name of the location where the platform is deployed.
ResearchVesselName	It includes the name of the vessel used for the operation, which is usually the SOCIB RV.
turtleName	It identifies the internal name of the turtle platform deployed.
ModelKeyword	In the case of the Lagrangian Platform and Glider Facility this code identifies the platform model linked to the instrument deployed.
OwnerInitial	Only for the Glider Facility this letter identifies the owner of the instrument applied (i.e. SOCIB = s, IMEDEA = i)
DepthCapability	Only for the Glider Facility this code identifies the capability of the instrument.

ANNEX II: Institution codes

Table 14. *The table shows the acronyms referred to the stakeholders or institution to be included within the instrument pattern and currently identifiable within the database.*

Stakeholder	Description
SCB	Balearic Islands Coastal Observing and Forecasting System
IME	Mediterranean Institute for Advanced Studies
IEO	Spanish Institute of Oceanography
PIB	Ports de les Illes Balears
PDE	Puertos del Estado
UTM	Unidad de Tecnología Marina
UIB	Universitat de les Illes Balears
CNR	The Marine Sciences Research Institute (cnr-ismar)
ALK	Alnitak
CHE	Confederación Hidrográfica del Ebro - Centro Proceso de Cuenca SAIHEBRO
CON	Consellería de Innovación, Investigación y Turismo - Servicio de Investigación y Desarrollo
MIO	MIO (Mediterranean Institute of Oceanography)
MTF	PdE (Puertos del Estado) - Redes de Medida
NAT	North Atlantic Treaty Organization (NATO / OTAN)
OGS	National Institute of Oceanography and Experimental Geophysics
SCP	The Scripps Research Institute - Instrument Development Group at Scripps Institution of Oceanography
SID	Oceanographic Studies and Service (SIDMAR)
SMT	(Third-party weather station)

ANNEX III: Deployments and cruises naming elements

***Table 15**. The table describes the rules to follow for both the cruise and deployment elements. The underscore ('_') is the character to be used as a separator of the different naming elements. The use of underscores ('_') is therefore not allowed within an element. Use a dash ('-') instead if needed. All elements are mandatory with the exception of the deployments INFO. The common elements for the cruise shared among the facilities within the file structure are [INSTITUTION]_[LABEL].*

Operation		Element	Position	Description
Deployment	Cruise			
x	x	INSTITUTION	1	Acronym(s) of the INSTITUTION(s) involved in the deployment (owner of the platform/instrument or project leader) and/or cruise. If more than one, a dash('-') will be used as an internal separator. Fully uppercase. It shall not contain underscores ('_').
x	x	LABEL	2	Label for the mission/station (deployments) or the campaign (cruises). It is not allowed to use private names. Please make it as readable as possible avoiding using codes if possible as well as special characters (#, &..). In those cases when deployments are installed during the cruise as part of the same observing program/project, the field must include the cruise LABEL. Otherwise, the deployment LABEL is independent from cruise one. LABEL for cruise must include the project/observing program name. LABEL for cruise does not include the information on the identification of the project (e.g. ENL, TST, ENG, TNT Fully uppercase or CamelCase. It shall not contain underscores ('_').

x	-	DATE	3	Deployment starting date formatted as YYYYMMDD. It shall not contain underscores ('_')
x	-	INSTRUMENT NAME	4	It contains the name of the instrument (pattern). In the case of the glider, the platform name is used (pattern).
x	-	KEYWORD	5	Use only if the deployment needs supplementary information. Fully uppercase or CamelCase. It shall not contain underscores ('_').