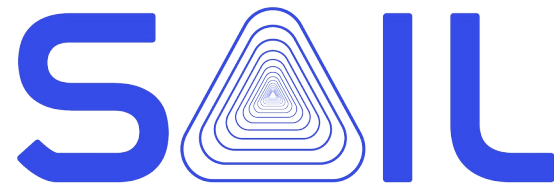


Plano de gestão de dados dinâmico – a experiência do projeto SAIL

Susana Barbosa, Yulia Karimova, Cristina Ribeiro

INESC TEC



Space-Atmosphere-
Ocean Interactions
in the Marine
Boundary Layer



Projeto SAIL

Campanha de monitorização da camada limite marinha a bordo do navio-escola NRP Sagres



PROJECT SAIL AIMS TO IMPROVE THE SCIENTIFIC UNDERSTANDING OF THE MARINE BOUNDARY LAYER

SAIL

MULTI-PARAMETRIC MONITORING CAMPAIGN ON BOARD NRP SAGRES 2020 CIRCUMNAVIGATION

Atmospheric electric field
Environmental radioactivity
Atmospheric ionisation
Cosmic radiation
GNSS signals
Ocean status (temperature, conductivity, O₂, pH, chlorophyll)
Biological samples (fish)

Campanha de monitorização

Janeiro - Maio 2020

Follow-up

Maio 2020 - presente

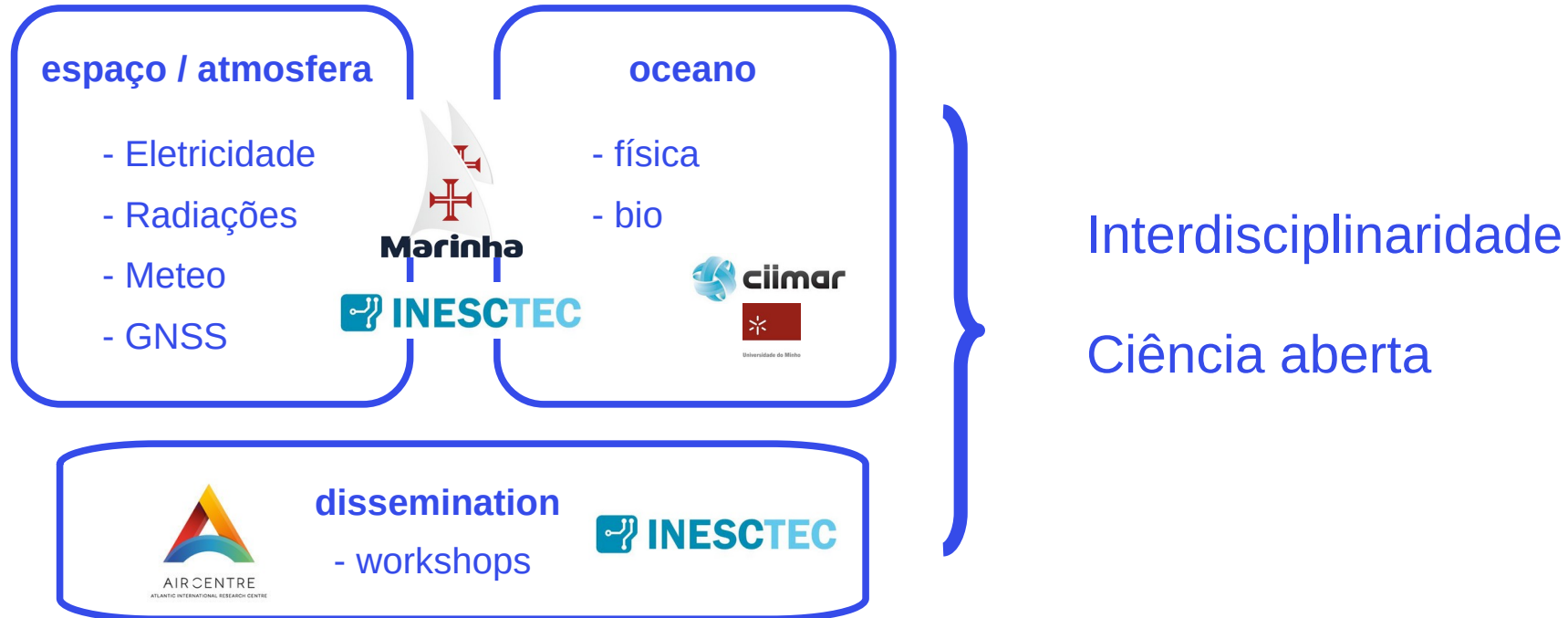
+15 parâmetros geofísicos

+10 GB / dia

+ 500 dias



Projeto SAIL



Projeto SAIL

Reproducibilidade (dados, meta-informação, código & software)



GitLab

Project SAIL community

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February 8, 2021 (v1) Technical note Open Access

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SAIL campaign - Technical report on Sensor Data correction

Amaral, Guilherme; Dias, Nuno;

Technical report on the correction of sensor data from the SAIL campaign

Uploaded on February 8, 2021

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SAIL campaign - Technical report on GNSS Post-processing

Ferreira, António;

Technical report on the post-processing of GNSS data from the SAIL campaign

Uploaded on January 18, 2021

New upload

Community



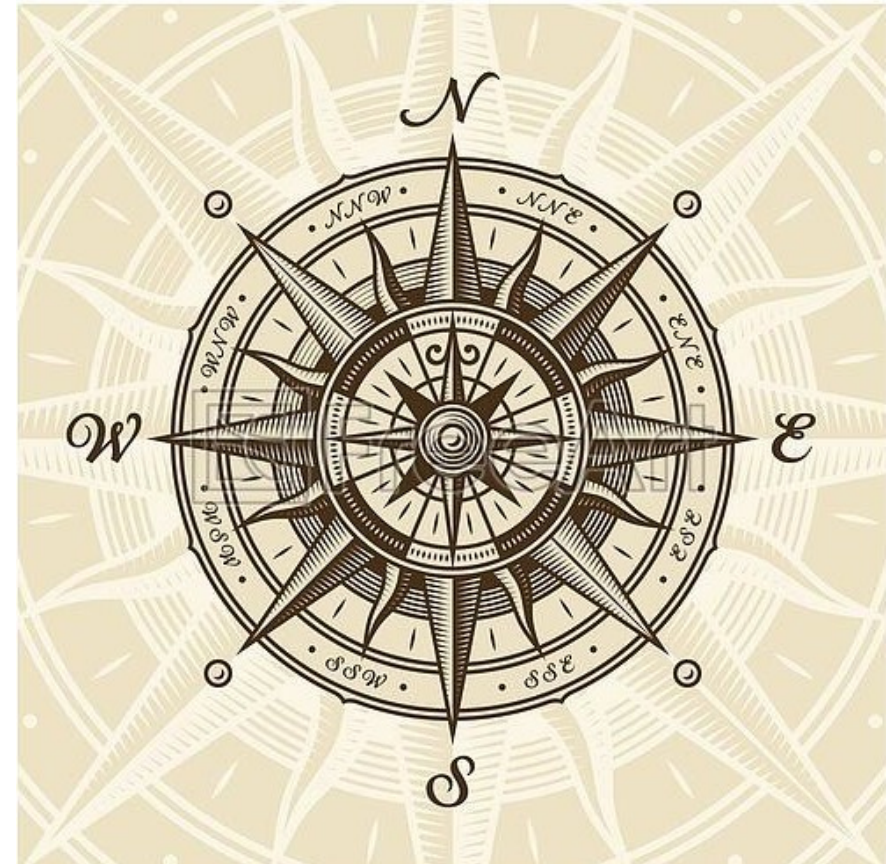
Space-Atmosphere-Ocean Interactions in the Marine Boundary Layer

Project SAIL community

Project SAIL (Space-Atmosphere-Ocean Interactions in the marine boundary Layer) Zenodo community. SAIL aims to improve the scientific understanding of the marine boundary layer by means of a unique monitoring campaign on board the ship-rigged sailing ship NRP Sagres during its 2020 circumnavigation expedition.

Plano de gestão de dados do projeto SAIL

Motivação é fundamental!



Plano de gestão de dados do projeto SAIL

Versões “oficiais”

Fevereiro 2020

Abril 2020

Junho 2020

* Novembro 2020


* Março 2021

* Setembro 2021

* Zenodo





Plano de gestão de dados do projeto SAIL



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September 24, 2021 Data management plan Open Access















SAIL Data Management Plan

 Barbosa, Susana;  Karimova, Yulia

Project leader(s)

 Camilo, Maurício;  Silva, Eduardo


Project member(s)


 Almeida, Carlos;  Amaral, Guilherme;  Dias, Nuno;  Ferreira, António;  Lima, Luís;  Silva, Igor;  Coelho, Luis;  Martins, Marcos;  Ramos, Sandra;  Moutinho, José Luiz;  Martins, Alfredo;  Almeida, José Miguel;  David, Gabriel;  Ribeiro, Maria Cristina

The SAIL Data Management Plan is a document detailing the management of all data from Project SAIL - Space-Atmosphere-Ocean Interactions in the marine boundary Layer. Project SAIL aims to improve the scientific understanding of the marine boundary layer by means of a unique monitoring campaign on board the iconic Portuguese tall ship NRP Sagres. The campaign will enable the measurement of the atmospheric electric field over the ocean, and also to study space-driven interactions via the detailed monitoring of GNSS signals, cosmic radiation, environmental radioactivity and atmospheric ionisation. The atmospheric measurements will be complemented by the collection of fish samples and by underwater monitoring of the ocean state (temperature, conductivity, dissolved oxygen, pH, spectral radiance), providing unique data for the detailed study of ocean-atmosphere fluxes and surface-atmosphere interactions.

Preview


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Publication date:
September 24, 2021

DOI:
DOI [10.5281/zenodo.5526865](https://doi.org/10.5281/zenodo.5526865)

Communities:
Project SAIL community

Plano de gestão de dados do projeto SAIL

Nível de detalhe - exemplos

Table 4 summarizes the naming conventions adopted for all the data from the project, which are formed as: type of activity + group of data infix + measured parameter infix.

	Testing	Circumnavigation	Sagres
Ship data	TEST_SHIP_*	SAIL_SHIP_*	SAGRES_SHIP_*
Sensor data	-	SAIL_SD_*	SAGRES_SD_*
Geosensor data	-	SAIL_GD_*	SAGRES_GD_*
Processed data	-	SAIL_PD_*	SAGRES_PD_*

Table 4: dataset naming conventions; * denotes the parameter infix described in Table 2.

Plano de gestão de dados do projeto SAIL

Nível de detalhe - exemplos

compressed files name	individual files
*_SHIP_CI_yyyymmdd.tgz	yyymmdd-10s.records yyymmdd-1s.records yyymmdd-block.records yyymmdd.log
*_SHIP_E1_yyyymmdd.tgz	E1_yyyymmdd_HH.txt
*_SHIP_E2_yyyymmdd.tgz	E2_yyyymmdd_HH.txt
*_SHIP_GA_yyyymmdd.tgz	GA_yyyymmdd_HH.txt
*_SHIP_NS_yyyymmdd.tgz	GPS1_A1_oem4_yyyymmdd_HH GPS1_A2_oem4_yyyymmdd_HH GPS1_IMU_yyyymmdd_HH GPS1_NMEA_yyyymmdd_HH GPS2_A1_oem4_yyyymmdd_HH GPS2_A2_oem4_yyyymmdd_HH GPS2_IMU_yyyymmdd_HH GPS2_NMEA_yyyymmdd_HH GPS3_A1_oem4_yyyymmdd_HH GPS3_A2_oem4_yyyymmdd_HH

Plano de gestão de dados do projeto SAIL

Nível de detalhe - exemplos

compressed files name	individual files
*_SHIP_CI_YYYYMMDD.tgz	YYYYMMDD-10s.records YYYYMMDD-1s.records YYYYMMDD-block.records YYYYMMDD.log
*_SHIP_E1_YYYYMMDD.tgz	E1_YYYYMMDD_HH.txt
*_SHIP_E2_YYYYMMDD.tgz	<p>The electric field hourly datafiles E1_YYYYMMDD_HH.txt (upper mast sensor) contained in the compressed file *_SHIP_E1_YYYYMMDD.tgz have the following structure:</p> <p>col 1: timestamp (seconds.microseconds) col 2: date (mm/dd/yyyy) col 3: time (HH:MM:SS) col 4: voltage (power) (V) col 5: voltage (internal) (V) col 6: Panel temperature (deg C) col 7: Electric field (V/m) col 8: Leakage current (nA) col 9: CS110 status (numeric code) col 10: Internal RH (%) col 11: shortwave incoming radiation (W/m2) col 12: shortwave outgoing radiation (W/m2)</p>
*_SHIP_GA_YYYYMMDD.tgz	
*_SHIP_NS_YYYYMMDD.tgz	

Notas finais

Plano de gestão de dados do projeto SAIL

- instrumento fundamental
- motivação importa
- detalhe (nunca é demais!)
- *“release soon, release often”*

Obrigada!



@sail_sagres