SVC SE-S2-01



IRIDE S2 Air Quality service IRIDE Service Segment Lot 1 S2 Exploitation Tool User Guide

March 2024

Stefania Pasetti – MEEO S.r.l, pasetti@meeo.it

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You can follow the instructions written in the yellow boxes reported in the next slides (extracted from IRIDE Training session of 12th March 2024)

Please consider that the Exploitation Tool of the S2 Air Quality service can be reached in two ways:

1) With the direct link to the S2 ET https://explorer.iride.adamplatform.eu

or

2) Starting from IRIDE Catalogue: <u>https://dev-portal.irideservices.earth</u>

The User Guide is available on-line (icon \equiv)

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Let's start with the direct link

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Hands-on session (S2-01-01 web application)

SE-S2 Air Quality

Welcome to the IRIDE S2 Air Quality Service

The purpose is to support the operational users, in charge of the generation of the products and model outputs for the management of air quality in using EO based services, to improve air quality model results.

You are now on the web application that is a unique point of access for: (i) collecting and orchestrating air quality data from heterogeneous sources (ii) visualizing 2D air quality data maps

(iii) disseminating forecast model output, co-located EO+ground data and re-analysis model output. Available Case Studies:



S2-01 Data viewer

AQ Monitoring and Forecast data

(Satellite, AQ model output, re-

analysis results)

Login Required



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Select login



S2 Jupyter Notebook Time Series statistics on Air Quality model output

Login Required

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Hands-on session (S2-01-01 web application)

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Hands-on session (S2-01 ET data viewer)

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S2 Products On-line Archive

3D AQ model output, AQ co-located Satellite&Ground-based Remote

Sensing data, AQ re-analysis products

Login Required



S2-01 Data viewer AQ Monitoring and Forecast data (Satellite, AQ model output, re-

analysis results)

Select to access the S2 Data viewer for 2D data visualization



S2 Jupyter Notebook Time Series statistics on Air Quality model output

Login Required



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Hands-on session (S2-01 ET data viewer)

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Hands-on session (S2-01 ET data viewer)



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Hands-on session (S2-01 ET data viewer)



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Hands-on session (S2-01 ET data viewer) S2-01-01 Sentinel 3 AOD



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Hands-on session (S2-01 ET data viewer) S2-01-03 Model output - kAIROS



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Hands-on session (S2-01 ET data viewer) S2-01-03 Reanalysis-PM25



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Hands-on session (S2-01 ET for on-line archive data access)

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SE-S2 Air Quality

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S2-01 Data viewer AQ Monitoring and Forecast data (Satellite, AQ model output, reanalysis results)

No Login Required



S2 Jupyter Notebook

Time Series statistics on Air Quality

model output

Login Required

S2 Products On-line Archive 3D AQ model output, AQ co-located Satellite&Ground-based Remote Sensing data, AQ re-analysis products

Login Required

Select the On-line archive to access the other data (3D data and .nc)

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Hands-on session (S2-01 ET for on-line archive data access)

SE-S2 Air Quality S2-01 AQ model output S2 Air Quality Service On-line Archive kAIROS AQ forecast mod visualization of 2D data a 3D data The archive contains the downloadable S2 Air Quality products not visualized by the Data Viewer: S2-01 AQ model output - 3D AQ model output from kAIROS and FORAIR-IT (S2-01 output) FORAIR-IT AQ forecast m - AQ co-located Satellite and Ground-based Remote Sensing data (S2-02 output) Access to 3D data - AQ re-analysis model results at national scale (S2-03 level-2 output) SVC-02 output (co-locate S2-01 AQ model output by ARPAE [kAIROS AQ model output] Access to data (structure S2-01 AQ model output by ENEA [FORAIR-IT AQ model output] S2-02 output on-line [AQ co-located SAtellite and Ground-based Remote Sensing SVC-03 output (re-analys data] archive visualization and dissemi S2-03 output on-line archive [AQ re-analysis model results at national scale]

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d EO+ground data) d as 3D data)	NRT and historical data (S2-02-01 for PM10 and PM2.5, S2-02-02 for NO2, O3, CO, HCHO, SO2): /ftp/SERCO/Historical_data_S2-02/ /ftp/SERCO/NRT_S2-02/
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Available products on the On-line archive



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Hands-on session (S2-01 ET for on-line archive data access)

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Hands-on session (S2-01 AQ kAIROS 3D model output)

3. Use the BACK button of the toolbar of your browser to come back to the On-line archive home page

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Hands-on session (S2-01 ET for on-line archive data access)

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S2 Air Quality Service On-line Archive

The archive contains the downloadable S2 Air Quality products not visualized by the Data Viewer:

- 3D AQ model output from kAIROS and FORAIR-IT (S2-01 output)

- AQ co-located Satellite and Ground-based Remote Sensing data (S2-02 output)
- AQ re-analysis model results at national scale (S2-03 level-2 output)
- S2-01 AQ model output by ARPAE [kAIROS AQ model output]
- S2-01 AQ model output by ENEA [FORAIR-IT AQ model output]

Select S2-01-03 AQ FORAIR-IT model output

S2-02 output on-line archive

[AQ co-located SAtellite and Ground-based Remote Sensing data]

S2-03 output on-line archive [AQ re-analysis model results at national scale]





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Hands-on session (S2-01 AQ FORAIR-IT 3D model output)

3. Use the BACK button of the toolbar of your browser to come back to the On-line archive home page

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- S2-01 AQ model output by ENEA [FORAIR-IT AQ model output]
- S2-02 output on-line archive

[AQ co-located SAtellite and Ground-based Remote Sensing data]

S2-03 output on-line archive [AQ re-analysis model results at national scale]





THUMP'S

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Hands-on session (S2-02 output)



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Hands-on session (S2-01 ET for on-line archive data access)

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S2 Air Quality Service On-line Archive

The archive contains the downloadable S2 Air Quality products not visualized by the Data Viewer:

- 3D AQ model output from kAIROS and FORAIR-IT (S2-01 output)

- AQ co-located Satellite and Ground-based Remote Sensing data (S2-02 output)
- AQ re-analysis model results at national scale (S2-03 level-2 output)
- S2-01 AQ model output by ARPAE [kAIROS AQ model output]
- S2-01 AQ model output by ENEA [FORAIR-IT AQ model output]
- S2-02 output on-line archive

[AQ co-located SAtellite and Ground-based Remote Sensing data]

S2-03 output on-line archive [AQ re-analysis model results at national scale] <

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Hands-on session (S2-03 re-analysis output)



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Hands-on session (S2-03 re-analysis output)

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Hands-on session (OU-S2-01-01 web application for time series statistics) - required by PEU

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SE-S2 Air Quality

Welcome to the IRIDE S2 Air Quality Service

The purpose is to support the operational users, in charge of the generation of the products and model outputs for the management of air quality in using EO based services, to improve air quality model results.

You are now on the web application that is a unique point of access for:

- (i) collecting and orchestrating air quality data from heterogeneous sources
- (ii) visualizing 2D air quality data maps

(iii) disseminating forecast model output, co-located EO+ground data and re-analysis model output. Available Case Studies:

S2-01 Data viewer S3 AQ Monitoring and Forecast data 30 A (Satellite, AQ model output, re- Sat analysis results) S

No Login Required



S2 Jupyter Notebook

Time Series statistics on Air Quality

model output

S2 Products On-line Archive 3D AQ model output, AQ co-located Satellite&Ground-based Remote Sensing data, AQ re-analysis products

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Hands-on session (OU-S2-01-01 web application for time series statistics)



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ATMOSPHERE ATMOSPHERE CLIMATE EARTH OBSERVATION SATELLITE



Time Series statistics on Air Quality model output

PUBLISHER: NOEMI FAZZINI

This Notebook allows statistics on single point time series and the plot visualization for a specific dataset in the Adam catalogue. It extracts minimum, maximum and average values from a time series **TAGS:**

AIR QUALITY ATMOSPHERE IRIDE LOT.1 S2 - AIR QUALITY AIR QUALITY ARPAE NO2 PM10 PM25



Go to GitHub to download and use the code



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Hands-on session (OU-S2-01-01 web application for time series statistics)

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	Time Series statistics on Air Quality model o	utput	
	How to compute statistics (minimum, maximum and average) on single poin in the Adam catalogue, in this case applied to the Air Quality model output p functionalities provided through the API.	t time series and the plot visualization for a specific dataset provided by ARPAE, by using searching and filtering	
	Introduction		
	This notebook shows how to implement an advanced search operation for a s Adam API, by defining a search operation using the filters enabled for a datase and average values from a time series, by using searching and filtering functio how to implement an advanced search operation for a specific dataset, by using	pecific dataset, by using the functionalities provided in the et selected in the catalogue. It extracts minimum, maximum nalities provided through the Adam API This notebook shows ng the functionalities provided in the Adam API, by defining a	
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Starting from IRIDE Catalogue: https://dev-portal.irideservices.earth

Access the IRIDE catalogue with the IRIDE SSO account

With the direct link to the S2 ET <u>https://explorer.iride.adamplatform.eu</u>

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From IRIDE Catalogue <u>https://dev-portal.irideservices.earth</u> to S2 ET



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Ā		Air Quality Monitoring and	Forecast.
Air quality	GSP Products Catalogue	Description	Precursor Phase Service Delivery Plan
Air Quality Monitoring and Forecast [SE-S2-01]	The Products are accessible clicking on the Access to Products button. ATTENTION: "The geospatial contents included in the Living Lab may still be pa	rtially validated"	
Monitoring and assessment of pollutant emissions [SE-S2-02]	[OU-S2-01-01] <u>AOD EO products</u>		Access to Products
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Re-analysis of air quality at national scale [SE-S2-O3]	[0U-S2-01-03] <u>Web application</u> select for informat	ion	Access to Products
	Stefania Pasetti (pasetti@meeo	.it) ha eseguito l'accesso	



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[SE-	Description & Content	Pollutants EO products (from Sentinel 5p) ready to be ingested and fused with Model output (not available on the Sentinel hub EO data sources as ARD). Available over Italy, covering the historical period 2018-2020 and in NRT starting from March to June 2024.	
Monitoring and assessm	Classes or range values	S02: - mol/m2 03: 0-1 mol/m2 N02: - mol/m2 C0: - mol/m2 HCHC: - mol/m2	Access to Products
L'SE	Number of classes	NA	
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Re-analysis of air m	Format Specifications	COG	
[SE-			Access to Products
	Spatial Resolution (m)	3500-7000	
	Area of Interest	Italy (regions and urban areas)	
	Projection	EPS6: 4326	
		Temporal details	
	Temporal Extent	[01-05-18; 31-12-20] - [01-03-24; 29-06-24]	
	Multitemporal-stack or single layer	Single layer	
	Temporal Resolution	Daily	
	Update Frequency	Daily	
	Production Time	12 solar hours	
		Operational details	
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elopment version. Final version available in 2026. Copyright © 2024 All rights reserved.

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Monitoring and assessment of pollutant emissions [SE-S2-02] Re-analysis of air quality at national scale [SE-S2-03]	[0U-S2-01-01] <u>AOD EO products</u> [0U-S2-01-02] <u>Pollutants EO products</u> [0U-S2-01-03] <u>Web application</u>		Select the related tab ACCESS TO PRODUCT to access it	Access to Products Access to Products Access to Products
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Hands-on session (S2-01-01 web application) https://explorer.iride.adamplatform.eu

SE-S2 Air Quality

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Welcome to the IRIDE S2 Air Quality Service

The purpose is to support the operational users, in charge of the generation of the products and model outputs for the management of air quality in using EO based services, to improve air quality model results.

You are now on the web application that is a unique point of access for (i) collecting and orchestrating air quality data from the second seco

Available Case

S2 Products On-li

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ing data, AQ products

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3D AQ model output.

S2-01 Data viewer AQ Monitoring and Forecast data (Satellite, AQ model output, reanalysis results)

you can go back to slide n.4 or, as alternative, if you want to visualize the products **into your webGIS system**, please follow the next instructions

Welcome back to S2 ET

Login Required

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From IRIDE Catalogue https://dev-portal.irideservices.earth to visualize WMS layers

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Iride Product Catalogue

Discover data

Access and use constraints

Access restricted to Pilot Users for Lot 1, Industrial Team for Lot 1, ESA IPT and authorized people by ESA IPT -Public access to soatial data sets and services would adversely affect the confidentiality of commercial or You can go back to the IRIDE catalogue to exlore the metadata or you can go back to the S2 ET from the catalogue or directly https://explorer.iride.adamplatform.eu

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Hands-on session (S2-01-01 web application) https://explorer.iride.adamplatform.eu

SE-S2 Air Quality

Welcome to the IRIDE S2 Air Quality Service

The purpose is to support the operational users, in charge of the generation of the products and model outputs for the management of air quality in using EO based services, to improve air quality model results.

You are now on the web application that is a unique point of access for (i) collecting and orchestrating air quality data from (ii) visualizing 2D air quality data maps

(iii) disseminating forecast model output, co-located

Available Case

Welcome back to S2 ET To proceed, you can go back to slide n.4

Thank you for your attention and enjoy the

IRIDE S2 products!

S2-01 Data viewer AQ Monitoring and Forecast data (Satellite, AQ model output, reanalysis results)

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S2 Products On-line Archive 3D AQ model output, AQ co-located llite&Ground-based Remote nsing data, AQ re-analysis products

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S2 Jupyter Notebook

Time Series statistics on Air Quality

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For any questions or comments on S2 do not hesitate to contact MEEO <u>pasetti@meeo.it</u> <u>folegani@meeo.it</u>

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