HYPERNETS

HYPERNETS data policy

The HYPERNETS data policy is copied from the AERONET data policy (https://aeronet.gsfc.nasa.gov/new_web/data_usage.html, accessed 2025-01-27) with PI and Co-I replaced by simply PI.

Notice to users:

The HYPERNETS data you are about to download are contributed by the International HYPERNETS Federation. Each site has a Principal Investigator(s) (PI), responsible for deployment, maintenance and data collection. The PI has priority use of the data collected at the site. The PI is entitled to be informed of any other use of that site data. PI contact information can be found on data charts and in downloaded data files for each HYPERNETS site.

Recommended guidelines for data use and publication:

Although journal paper authorship and acknowledgement is the domain of the senior author and no policy is universally applicable, the HYPERNETS contributors ask that every practical attempt be made to honour the following general guidelines.

Using HYPERNETS data:
Please consult with the PI(s) of the data to be used.

Referencing:
Always cite the appropriate key HYPERNETS papers for any publications as well as cite relevant manuscripts pertaining to previously published site data.

Publishing HYPERNETS data from a 'few' sites:
Please consider authorship for the PI(s) and/or the following acknowledgement:

“We thank the (Project/PI(s)) for (its/theirs) effort in establishing and maintaining (site name(s)) sites.”

Publishing data from 'many' sites:
A general acknowledgement is typically sufficient and may read:

“We thank the PI(s) and their staff for establishing and maintaining the (#)sites used in this investigation.”

However if the HYPERNETS data are a principal component of the paper then co-authorship to PI(s) should be offered.

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Key HYPERNETS papers (overall) – version 2025-01-30

A full list of HYPERNETS papers can be found at https://hypernets.eu/network/publications.

The key HYPERNETS papers of relevance to most data exploitation studies are:

For the overall **HYPERNETS network concept**:

- Ruddick, Kevin G., Agnieszka Bialek, Vittorio E. Brando, Pieter De Vis, Ana I. Dogliotti, David Doxaran, Philippe Goryl, et al. 2024. **"HYPERNETS: A Network of Automated Hyperspectral Radiometers to Validate Water and Land Surface Reflectance (380–1680 Nm) from All Satellite Missions."** Frontiers in Remote Sensing 5. https://doi.org/10.3389/frsen.2024.1372085.

For the **WATERHYPERNET component**:

- Ruddick, Kevin G., Vittorio E. Brando, Alexandre Corizzi, Ana I. Dogliotti, David Doxaran, Clémence Goyens, Joel Kuusk, et al. 2024. **"WATERHYPERNET: A Prototype Network of Automated in Situ Measurements of Hyperspectral Water Reflectance for Satellite Validation and Water Quality Monitoring."** Frontiers in Remote Sensing 5. https://doi.org/10.3389/frsen.2024.1347520.

For the **HYPSTAR® data processing and quality control**:

- De Vis, Pieter, Clemence Goyens, Samuel Hunt, Quinten Vanhellemont, Kevin Ruddick, and Agnieszka Bialek. 2024. "**Generating Hyperspectral Reference Measurements for Surface Reflectance from the LANDHYPERNET and WATERHYPERNET Networks.**" Frontiers in Remote Sensing 5. https://doi.org/10.3389/frsen.2024.1347230.

For the **HYPSTAR® radiometer system:**

- Kuusk, Joel, Alexandre Corizzi, David Doxaran, Kim Duong, Kenneth Flight, Joosep Kivastik, Kaspars Laizans, et al. 2024. "**HYPSTAR: A Hyperspectral Pointable System for Terrestrial and Aquatic Radiometry.**" Frontiers in Remote Sensing 5. https://doi.org/10.3389/frsen.2024.1347507.

For the **PANTHYR radiometer system:**

- Vansteenwegen, Dieter, Kevin Ruddick, André Cattrijsse, Quinten Vanhellemont, and Matthew Beck. 2019. "**The Pan-and-Tilt Hyperspectral Radiometer System (PANTHYR) for Autonomous Satellite Validation Measurements-Prototype Design and Testing**." Remote Sensing 11 (June):1360. https://doi.org/10.3390/rs11111360.

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Key HYPERNETS papers (per site) – version 2025-01-30

For studies using water site data, the following papers are recommended:

BEFR, Etang de Berre, France

- Doxaran, David, Boubaker ElKilani, Alexandre Corizzi, and Clémence Goyens. 2024. “Validation of Satellite-Derived Water-Leaving Reflectance in Contrasted French Coastal Waters Based on HYPERNETS Field Measurements.” Frontiers in Remote Sensing 4. https://doi.org/10.3389/frsen.2023.1290110

CBUS, Chesapeake Bay, USA

- Pending

GAIT, Lake Garda, Italy

- Pending

LPAR, La Plata, Argentina

- Dogliotti, Ana I., Estefanía Piegari, Lucas Rubinstein, Pablo Perna, and Kevin G. Ruddick. 2024. “Using the Automated HYPERNETS Hyperspectral System for Multi-Mission Satellite Ocean Colour Validation in the Río de La Plata, Accounting for Different Spatial Resolutions.” Frontiers in Remote Sensing 5. https://doi.org/10.3389/frsen.2024.1354662.

M1BE, MOW1 Zeebrugge, Belgium

- Pending

MAFR, MAGEST Gironde, France

- Doxaran, David, Boubaker ElKilani, Alexandre Corizzi, and Clémence Goyens. 2024. “Validation of Satellite-Derived Water-Leaving Reflectance in Contrasted French Coastal Waters Based on HYPERNETS Field Measurements.” Frontiers in Remote Sensing 4. https://doi.org/10.3389/frsen.2023.1290110

MEFR, MESURHO Rhone, France

- Pending

O1BE, RT1 Oostende, Belgium

- Pending

TBBE, CPOWER Thornton Bank, Belgium

- Pending

VEIT, Acqua Alta, Italy

- Pending

WRUK, Wraysbury, UK

- Pending

For studies using land site data, the following papers are recommended:

GHNA, Gobabeb, Namibia

- De Vis, Pieter, Adam Howes, Quinten Vanhellemont, Agnieszka Bialek, Harry Morris, Morven Sinclair, and Kevin Ruddick. 2024. “Feasibility of Satellite Vicarious Calibration Using HYPERNETS Surface Reflectances from Gobabeb and Princess Elisabeth Antarctica Sites.” Frontiers in Remote Sensing 5. Accessed August 8, 2024. https://doi.org/10.3389/frsen.2024.1323998.

OR

- Sinclair, Morven, Agnieszka Bialek, Pieter De Vis, and Marc Bouvet. 2023. “HYPERNETS Land Network: HYPSTAR®-XR Deployment and Validation in Namibia, Africa.” In IGARSS 2023 - 2023 IEEE International Geoscience and Remote Sensing Symposium, 4625–27. https://doi.org/10.1109/IGARSS52108.2023.10282079.

JAES, Järvselja, Estonia

- Pending

JSIT, Jolanda di Savoia, Italy

- Pending

LOBE, Lonzee, Belgium

- Pending

PEAN, Antarctica

- De Vis, Pieter, Adam Howes, Quinten Vanhellemont, Agnieszka Bialek, Harry Morris, Morven Sinclair, and Kevin Ruddick. 2024. “Feasibility of Satellite Vicarious Calibration Using HYPERNETS Surface Reflectances from Gobabeb and Princess Elisabeth Antarctica Sites.” Frontiers in Remote Sensing 5. Accessed August 8, 2024. https://doi.org/10.3389/frsen.2024.1323998.

WWUK, Wytham Woods, UK

- Morris, Harry, Morven Sinclair, Pieter De Vis, and Agnieszka Bialek. 2024. “Utilising LANDHYPERNET Data Products over a Deciduous Broadleaf Forest to Validate Sentinel-2 and Landsat Surface Reflectance Products.” Frontiers in Remote Sensing 5. https://doi.org/10.3389/frsen.2024.1322760.