

ARGOS
CONNECTED. PROTECTED.

Governmental/Institutional Price List 2023

Woods Hole Group, Inc.
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WOODS HOLE 
GROUP
A CLS COMPANY

ArgosService

Satellite Data Collection and Location for Transmitting Platforms

Price per month, per platform = $A + n \times B$

A: monthly fee per active platform, n: number of day units, B: daily fee

Monthly fee per active platform (A):

A monthly fee is charged when a platform transmits at least once during a given calendar month.

Price per platform, per month \$17.00

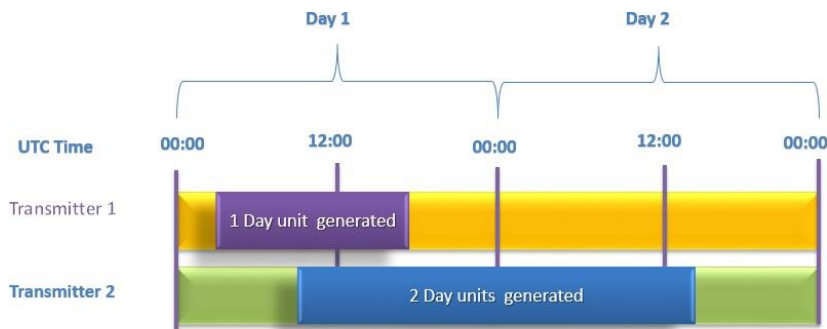
Daily fee for any transmitting day (B):

All platforms (all applications) - Price per day of transmission \$4.00

Number of day units (n) – capped at 12 days per month:

A day unit will be generated when there is at least one transmission in a given day (00:00 to 23:59 UTC).

Here is an example with 2 different types of transmissions:



A capping at 12 days is applied to all platforms allowing an UNLIMITED monthly usage \$65.00 (\$17.00 + 12 days x \$4.00).

Unused Identification Numbers:

This charge is applied to unused identification numbers which have not transmitted data for 2 years.

Price per ID number, per month \$6.20

➤ **We recommend you return ID numbers at the end of your project.**

Value Added Services

ArgosDirect

ArgosDirect is a data delivery service that ensures you receive your data automatically via FTP or email.

- Unlimited data plan (monthly price per active platform) \$30.00
Includes two delivery methods, up to 3 recipients.
- Pay-as-you-go, price per Kbyte \$0.15

ArgosArchive (CD-Rom or Email)

Regular Monthly Data Bank

- Data volume < 100 Kbytes \$110.00
- Data volume between 100 Kbytes – 1 Mbyte \$200.00
- Data volume > 1 Mbyte \$220.00

Archived Data are available upon request – for a quote please email userservices@woodsholegroup.com.

ArgosWeb

Free Secured Web Access

Access your data via an attractive and user-friendly website. With ArgosWeb, you may view platform trajectories on land and marine maps. Responsive design with an entirely rebuilt mapping tool and improved data access.

- View Argos locations on a map
- Export to Google Earth
- View Argos data messages
- Download data
- Manage your own settings
- Add users on-copy
- Create guest accounts



One year of data available online – Free of Charge.

ArgosMonitor

Additional service associated with ArgosService used to monitor specific parameters include:

- Platform transmission (TRANSMISSION)
- Position versus a customized geographical zone (GEO)
- Sensor data value such as battery level, temperature, etc. (SENSOR)

ArgosMonitor Basic Service surcharge per platform/day \$0.80

Moored Buoy Monitoring (MBM): Service applied to surface buoy monitoring. MBM service nominal mode (1 position delivered per day) & MBM service in Alarm mode (all positions delivered).

- Monthly charge per active platform \$17.00
- Price per day of transmission (capped at 12 days per month) \$4.00

Silent PTT Monitoring

Silent PTT Monitoring subscription, price per month \$48.00

Silent PTT Transmissions

- Monthly charge per active platform \$17.00
- Price per day of transmission (capped at 12 days per month) \$4.00

Sending alerts

Sending alerts via email or SMS for all ArgosMonitor services: refer to ArgosDirect rates above.

Argos Post-processing Services

This range of services aims at positioning enhancements through various means such as data filtering, multi-satellite processing, and light-based data combined with oceanographic data.

- **Track & Loc** \$650.00
Archival platform data processing for fish and marine animals
Price per platform
- **On-demand Multipass Location** \$50.00
Please contact userservices@woodsholegroup.com
Price per request
- **Argos Doppler Location Reprocessing** \$1.00
Price per platform, per day
- **Enrich your tracks with contextual data** \$2.00
Including Argos Doppler Location Reprocessing, Meteorological and Ocean data
Price per platform and per day of transmission

Equipment Recovery

Argos Goniometer

The Argos Goniometer has been designed by CLS to allow users to find active Argos tags in the field for recovery and/or active tracking.

Features include:

- Approximately 10+/- nautical miles range on the open ocean and 100+/- miles on land (active tracking birds in flight)
- Compatible with historic and future satellites and modulations (Argos 2 through Kineis)
- Provides the user with direction to the tag, signal strength (distance indicator), GPS decoding (if available), and "proximity mode" for nearby tags
- For active tracking, the newer version (Rev. 2) expands its internal memory (up to 200,000 messages stored)
- It is ready to use "out of the box"



Purchase	\$10,900.00
Lease (monthly)	\$1,200.00

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Description of Argos Services

ArgosService

This service is provided by the Argos Processing Centers. It includes platform location calculation, sensor data processing and access to data collected by all the operational satellites.

- **Argos locations**

Argos positioning is based on the Doppler Shift of the carrier frequency of the messages collected during a satellite pass (<https://www.argos-system.org/manual/>). GPS positions, if transmitted in the Argos messages, could be processed by CLS and distributed with the same format as Argos locations. For more information, please contact userservices@woodsholegroup.com.

- **Data Access**

The data collected by Argos from the last 365 days are available for on-line consultation on ArgosWeb at www.argos-system.org.

ArgosDirect

ArgosDirect automatically delivers your processed data. Many options are available:

- By email and/or FTP
- SMS delivery
- Several formats available: CSV, XLS, XML, etc.
- Choose the delivery frequency: with every new data, every hour, once a day, etc.
- Choose between the pay-as-you-go option and the unlimited data plan (fixed price per active platform, max. 3 recipients)

ArgosArchive

- All locations and collected data are stored at the Argos Centers. Upon request, archived data can be sent on CD-Rom or via e-mail.
- Data are available online free of charge for a period of 12 months.

ArgosMonitor

ArgosMonitor is a range of services developed to address monitoring needs related to platform performance, position and/or sensor monitoring. Most parameters of interest can be monitored and you receive automatic alert notice, by email or SMS, as soon as the change you are looking for is detected.

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Transmission ArgosMonitor: Is the transmitter still working? Transmission ArgosMonitor sends you an alert when no message has been received from your platform for a pre-defined time period. An alert message will also be sent if no location has been calculated.



Geo ArgosMonitor: Has the animal I'm tracking entered a wintering zone? Returned to its nest? Crossed a border? Has my platform entered/left a place of interest? GEO ArgosMonitor sends you an alarm message when a platform enters or leaves a customized zone.



Sensor ArgosMonitor: Is the animal still alive (are heart rate, temperature measurements normal)? How is my platform performing (battery level, light sensors etc.)? Has something unusual occurred: sudden atmospheric pressure drop? Has the temperature risen unexpectedly? Has the water level risen or dropped? Sensor ArgosMonitor can alert users when an unusual value for a particular sensor is reported.



MBM ArgosMonitor: Has my moored buoy's anchor broken? Designed for moored buoys, this service will alert you if a moored buoy leaves its mooring zone. It also provides you with locations so you can quickly recover your moored buoy.



Silent ArgosMonitor: Has my equipment surfaced inadvertently? This service is designed for underwater moorings (i.e. platforms that only use Argos in case of an emergency). It sends an alert (and if possible, a location) if at least two messages have been received via the Argos system.

Argos Post-processing Services

• Track & Loc

This service applies to both pop up and archival platforms. Its main purpose is to improve the standard light-level-based Geo location usually provided by platform manufacturers. This is achieved by estimating the positions using not only light level measurements but also satellite derived sea surface temperatures and bottom topography. As an output of this service the user receives:

- improved positions with estimated errors
- detailed quality checks of the results, helping identify potential problems of the acquired data
- all additional data (temperature-depth profiles, etc.) acquired by the platform in an easily readable format.

Oceanographic data along the estimated track (satellite derived surface temperature and color, surface currents) can also be provided.

- **On-demand Multipass Location**

Multipass location can be calculated when very few messages are received from the platform (e.g. maximum one message per satellite pass). Such a location is manually calculated by a CLS expert using all the messages received during several satellite passes and considering the platform is basically not moving.

- **Argos Doppler Location Reprocessing**

CLS has developed a post processing service based on Kalman filtering. This method, compared to the least square method, is still based on the shift in Doppler frequency but introduces two additional algorithms: a mobile's dynamic model and a Kalman filter approach for the calculation of the positions. The benefits include more available positions with an improved precision, associated to error ellipses, and the exclusion of unrealistic positions. The reprocessing also benefits from an additional enhancement with the post filtering of trajectories using a second Kalman filtering.

User Assistance

- **Password**

To keep your data confidential, access to the online consultation system is protected by a “username” and “user password”. To change either of these, please submit your request via email. Changes are implemented within three working days from reception of your request.

- **Modifying platform declaration**

Modifying the platform declaration, or moving a platform from one program to another, is implemented within three working days from reception of your request. Some modifications can be done online through ArgosWeb.

- **Adding or deleting a platform**

Adding or deleting a platform from a program is implemented within three working days from reception of your request. Unless you specify otherwise, the service and processing for additional platforms will be as stated in your original request for the program.

- **Global Telecommunication System (GTS)**

GTS is a public network run by the World Meteorological Organization for worldwide weather centers to exchange data.