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The earth science enterprise increasingly relies on the integration of multivariate data from diverse observational platforms to enable research, mission calibration/validation, and decision support. The inherent diversity and heterogeneity of field datasets coupled with their general acute lack of adherence to data standards constitute significant impediments to interoperability.

The Oceanographic In-situ data Interoperability Project (OIIP) is a two-year technology development project initiated in September 2016 and funded under NASA's Advancing Collaborative Connections for Earth System Science (ACCESS) Program. This collaborative project aims to leverage and extend as necessary a set of available informatics technologies for the improved integration of oceanographic in-situ and satellite datasets.

Rosetta is a web-based service that provides an easy, wizard-based interface for data collectors to transform unstructured ASCII into Climate and Forecast (CF) compliant netCDF files. Extensions to Rosetta to facilitate the conversion of electronic animal tag data have been made as part of OIIP. These extensions allow Rosetta to work with data produced from electronic tags deployed on a variety of marine species, as these are a representative class of oceanographic field data. While working with electronic tag data may seem very specific, the extensions apply to a variety of data from other science domains which generically fall under the trajectory and profile discrete sampling geometries from the CF convention.

To learn more, visit https://oiip.jpl.nasa.gov



Tuna and Data Standards: The Use of Rosetta in the Oceanographic In Situ Data Interoperability Project (OIIP)



SPOT Tag



PAT Tag on Bluefin Tuna



Integer

Missing Value 🛛



Rosetta



💫 Rosetta		📉 Rosetta
 Basic Information Upload Data Specify Header Lines and Delimiters 	You Selected a Known File Type – Nothing to do!	 Basic Information Upload Data Specify Header Lines a Delimiters
 Specify Variable Attributes Specify General Information Download Converted File Previous Next 		 Specify Variable Attril Specify General Information Download Converted Previous Next
Quick Save Questions or comments abo Version : Build Date: O Unidata providing innovative data s	out Rosetta can be sent to: support-rosetta@unidata.ucar.edu	Quick Save Show Header
	Define File	

Header





Choose Data Collection Scenario and Upload Files



Describe Variables and Add Metadata





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	Choose File	No External Positional Data file selected (Optional)			
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Download Converted File