

IVAD Web Service API, 21 December 2016

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This is a guide for using the International Comprehensive Ocean-Atmosphere Data Set (ICOADS) Value Added Database (IVAD) web service API to extract complete IMMA1 formatted records based on the unique report ID (UID).

Every IVAD record has a UID. This record identifier can be used in a variety of web service calls, each of which will return to the user the full and complete IMMA1 formatted record. The IMMA1 record structure is documented in http://icoads.noaa.gov/e-doc/imma/R3.0-imma1_short.pdf.

The various web service access methods are illustrated by the examples below. In each case the same two UIDs are used to retrieve IMMA1 records. The UID and records are:

1. UID = **C068DG**, and IMMA1 records is:
2014 416 0 3920 28360 14 0 344043 03501 90 101183 52 64 1 127 3
2 165 2069679310314 12 111111F11AAA11AA1A1A1 31
594 6 4 9815**C068DG**3002199 0
BBXX01041620140022SMVD70KWBC160000RRH///// 44043 16001 99392 70764 46/// /3509
10064 40118 53052 90000 22200 00127 10302 70008 333 91213 555 11109 22118
2. UID = **C06BCB**, and IMMA1 records is:
2014 416 33 3920 28360 14 0 344043 03501130 10129 59 165
2069679310314 12 1F1111F11AAA11AAAAAAA 31
594 6 4 9815**C06BCB**3002199 0
BBXX01041620140032SMVD01KWBC160000RRJ///// 44043 16001 99392 70764 46/// /3513
10059 40129 90020 333 91216 555 11147 22159

- A. Web service calls using 'curl' with imbedded UIDs
curl "<http://rda.ucar.edu/php/icoadsuid.php?uid=C068DG,C06BCB>"
curl -d "uid=C068DG,C06BCB" <http://rda.ucar.edu/php/icoadsuid.php>
- B. Web service calls using 'wget' with imbedded UIDs
wget -q -O - - "<http://rda.ucar.edu/php/icoadsuid.php?uid=C068DG,C06BCB>"
wget -q -O - --post-data "uid=C068DG,C06BCB" <http://rda.ucar.edu/php/icoadsuid.php>
- C. Web service calls using UID lists from an input file. First create an input file (file.in)
Content: uid=C068DG,C06BCB
Then use 'curl' or 'wget':
curl -d "@[file.in](http://rda.ucar.edu/php/icoadsuid.php)" <http://rda.ucar.edu/php/icoadsuid.php>
wget -q -O - --post-file [file.in](http://rda.ucar.edu/php/icoadsuid.php) <http://rda.ucar.edu/php/icoadsuid.php>
- D. Web service calls in any web browsers with given UIDs
<http://rda.ucar.edu/php/icoadsuid.php?uid=C068DG,C06BCB>