

2.1. Csv OCO in-situ

2.1.1. General description

CSV is the short for “Comma Separated Values”.

The OCO Csv files contain an header line and many record lines.

The field separator is the comma (‘,’). The decimal separator is the dot (‘.’).

The filename extension is “.csv”.

The record lines are ordered by platform, by date, and by level (pressure or depth) for the vertical profiles.

2.1.2. Columns description

Column header	Comment
PLATFORM	The platform code. If it exists, it is the WMO code, otherwise it is an internal code.
ARGOS_ID	The beacon code of the platform. This column is optional. If one or more of the platforms of the file has a beacon code, the column is present.
DATE (yyyy-mm-ddThh:mi:ssZ)	The date/time of the observation. The date and times are given in UTC time, using the ISO 8601 international standard representation (yyyy-mm-ddThh:mi:ssZ).
LATITUDE (degree_north)	The latitude of the observation.
LONGITUDE (degree_east)	The longitude of the observation.
CODE (Unit) or CODE LEVELn (Unit)	The physical observations (e.g. : temperature, salinity, river flow, ...). CODE is a code describing the physical parameter observed. The list of codes is available at http://www.ifremer.fr/sismer/program/formats_phy/htql/liste_param_UK.htql . A level may be associated to the observation. It is mainly used when a platform records observations at different level at the same time. Generally the level 0 is for atmospherical observations and the level 1..N are for oceanographic observations. In some case those columns are omitted, for example for some drifting buoys which only records a position.
QC	This field concatenates the quality flag of each of the previous fields. Flag scale is specified in reference table 1. If a filed has no quality flag (e.g. : PLATFORM) the default quality flag 0 is used.
TECH_CODE	The technical observations (e.g. : battery voltage) associated to the physical observations. There is no codification for TECH_CODE. Those columns are optional.

2.1.3. Examples

Vertical profile						
PLATFORM,ARGOS_ID,DATE	(YYYY-MM-DDTHH:MI:SSZ)	LATITUDE	(degree_north)	LONGITUDE	(degree_east)	PRES
(decibar=10000_pascals),TEMP (Celsius degree),QC						
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	0,	21.241,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	6,	21.264,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	16,	21.364,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	26,	21.412,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	36,	21.426,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	48,	21.285,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	56,	18.124,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	67,	16.959,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	76,	16.195,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	86,	15.693,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	96,	15.362,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	106,	14.981,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	117,	14.593,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	126,	14.363,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	136,	14.12,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	146,	13.932,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	156,	13.821,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	166,	13.802,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	176,	13.727,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	186,	13.654,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	196,	13.583,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	206,	13.591,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	216,	13.575,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	226,	13.573,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	237,	13.57,	0011111	
6900664,78656,2008-11-02T01:14:00Z,	38.7440,	6.3060,	246,	13.578,	0011111	

Time serie

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PLATFORM,DATE      (yyyy-mm-ddThh:mi:ssZ),LATITUDE      (degree_north),LONGITUDE      (degree_east),SLEV      LEVEL0
(meter),TEMP LEVEL1 (Celsius degree),PSAL LEVEL1 (P.S.U.),DOX1 LEVEL1 (ml/l),PHPH LEVEL1 (pH unit),TUR4 LE
VEL1 (N.T.U Nephelo Turb. Unit),FLU3 LEVEL1 (FFU),QC,MAREL_DATASATE
62444,2008-11-12T14:35:46Z,49.3821,-1.0986,0.11,12.29,0.11,7.66981,56.3,4,-8.4,01111111411,0.5
62444,2008-11-12T14:58:05Z,49.3821,-1.0986,0.11,12.36,0.11,7.57883,60.94,3.8,-7.4,01111111411,0.5
62444,2008-11-12T15:02:05Z,49.3821,-1.0986,0.1,12.37,0.1,7.55784,61.97,4.1,6.2,01111111411,0.5
62444,2008-11-12T15:06:06Z,49.3821,-1.0986,0.1,12.37,0.1,7.55084,59.12,4.6,0.2,01111111411,0.5
62444,2008-11-12T15:10:07Z,49.3821,-1.0986,0.1,12.39,0.1,7.55084,59.48,3.8,-6,01111111411,0.5
62444,2008-11-12T15:14:10Z,49.3821,-1.0986,0.1,12.44,0.1,7.52985,59.85,4.4,-4.5,01111111411,0.5
62444,2008-11-12T15:18:10Z,49.3821,-1.0986,0.1,12.41,0.1,7.53685,59.88,4.6,-4.3,01111111411,0.5
62444,2008-11-12T15:22:10Z,49.3821,-1.0986,0.1,12.34,0.1,7.55084,59.89,4.6,-2.9,01111111411,0.5
62444,2008-11-12T15:26:11Z,49.3821,-1.0986,0.1,12.35,0.1,7.53685,60.76,4.7,1,01111111411,0.5
62444,2008-11-12T15:30:13Z,49.3821,-1.0986,0.11,12.36,0.1,7.53685,61.15,4.3,-7.3,01111111411,0.5
62444,2008-11-12T15:34:12Z,49.3821,-1.0986,0.11,12.4,0.1,7.52285,61.41,4.9,5.2,01111111411,0.5
62444,2008-11-12T15:38:19Z,49.3821,-1.0986,0.11,12.31,0.1,7.53685,61.4,4.5,5.7,01111111411,0.5
62444,2008-11-12T15:42:14Z,49.3821,-1.0986,0.11,12.25,0.1,7.54384,61.76,4.2,3.5,01111111411,0.5
62444,2008-11-12T15:46:14Z,49.3821,-1.0986,0.11,12.18,0.1,7.55784,61.81,4.3,3.8,01111111411,0.5
62444,2008-11-12T15:50:14Z,49.3821,-1.0986,0.11,12.14,0.1,7.57184,62.45,4,-3.9,01111111411,0.5
62444,2008-11-12T15:54:15Z,49.3821,-1.0986,0.11,12.11,0.1,7.57184,62.79,4.7,0.2,01111111411,0.5
62444,2008-11-12T15:58:16Z,49.3821,-1.0986,0.11,12.06,0.1,7.57883,63.08,4,0.2,01111111411,0.5
62444,2008-11-12T16:02:17Z,49.3821,-1.0986,0.11,11.99,0.1,7.59283,63.7,4.7,4.3,01111111411,0.5
62444,2008-11-12T16:06:31Z,49.3821,-1.0986,0.11,11.87,0.1,7.60683,63.76,4.5,5.1,01111111411,0.5
62444,2008-11-12T16:10:18Z,49.3821,-1.0986,0.11,11.79,0.1,7.59283,63.62,4.1,2.1,01111111411,0.5

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2.1.4. Reference tables

2.1.4.1. Reference table 1 : quality control flag scale

n	Meaning
0	No QC was performed
1	Good data
2	Probably good data
3	Probably bad data
4	Bad data
5	Value changed
6	Not used
7	Not used
8	Interpolated value
9	Missing value

2.1.4.2. Reference table 2 : parameter_code labels

See at : http://www.ifremer.fr/sismer/program/medar/htql/liste_param.htql