

## Clarus Critical Owner Provided Metadata Fields

Num	Remark	Clarus Metadata Library Field Name	Data Type	Field Description	Used for Quality Checking	Example/Format
	climateRecord					
1	critical - but not necessarily owner provided	minObsRecord	real	The minimum observed value of this observation type for this period (month). Precision & bounds dependent on data type	X	Minimum Monthly Temp (in Deg C) = -2.9
2	critical - but not necessarily owner provided	maxObsRecord	real	The maximum observed value of this observation type for this period (month). Precision & bounds dependent on data type	X	Maximum Monthly Temp (in Deg C) = 38.2
3	critical - but not necessarily owner provided	period	integer	The month to which this climate record applies (1=Jan ... 12=Dec)	X	May = 5
	collector (data access from transportation agency to Clarus)					
4	critical	protocol	text(10)	Description (in lower case) of the protocol used to retrieve observations (examples of input include: ftp, http, or https)		https
5	critical	hostName	text(50)	The network DNS name or IP address of the collector host server		www.fhwa.dot.gov or 64.126.107.233
6	critical - if required by owner	hostPort	integer	The logical network address port on the collector host server		http = 80, ftp = 22, https = 443, or owner defined integer
7	critical	fileLocator	text(50)	The logical directory path to the observation file		path = /stateDOT/RWIS/obs/
8	critical	filename	text(50)	The filename or the rule for generating file names that contain the observations		ESS_Observations.txt
9	critical - if required by owner	username	text(50)	The identifier name that is used to log into the collector host server		username = Clarus
10	critical - if required by owner	password	text(50)	The password that is used to log into the collector host server		password = iHavePermission
11	critical	obsCollFreq	integer	The number of minutes between collection cycles at the agency's collector host server (when a new file is ready for retrieval by Clarus). Maximum allowed is 60 minutes.		minutes = 13
12	critical	obsCollOffset	integer	The number of minutes after midnight UTC that the first collection occurs (for Clarus retrieval purposes). Minutes range from 0-60.		minutes = 2
13	critical	UTCOffset	integer	The number of <u>minutes</u> offset from UTC for the agency's collector host server in Standard time. Areas in the U.S. (west of Greenwich) use negative values. Valid range is -720 to +720 minutes.		minutes = -240
14	critical	DST	bit	Daylight Savings Time on the server is observed (True or False)		1=True, 0=False
15	critical	timeZone	text(4)	The 3 or 4 letter identifier for the <u>standard time zone</u> where the agency's collector host is located. The following are inputs: AST=Atlantic Standard Time, CST=Central Standard Time, EST=Eastern Standard Time, MST=Mountain Standard Time, PST=Pacific Standard Time, NST=Newfoundland Standard Time, YST=Yukon Standard Time, AKST=Alaska Standard Time and HST=Hawaii/Aleutian standard time		EST
	collectorConfig			Describes the format of the DOT wx data file; one set of entries is required for each observation type in the file		
16	critical	headerIndex	integer	The positional order (comma delimited) of observation type in the collected observation file (leftmost column = 1)		the temperature column = 5
17	critical	receiveUnits	text(50)	Type of units for conversion purposes; Most 1204 units are included		Degrees Celsius

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18	critical	receiveLabel	text(50)	Column label name from collected observation file		column = AirTemp
19	critical	unitsMultiplier	real	The multiplier used to adjust the decimal position (e.g., multiply 209 by 0.1 to get 20.9 Deg C)		times 0.1
metadata contact information (from agency)						
20	critical - administrator access only	name	text(50)	Contact person		Mr. Fred Flinstone
21	critical - administrator access only	title	text(50)	Contact person title		Owner of the Bedrock Mesonet
22	critical - administrator access only	phonePrimary	text(10)	Contact phone (including area code)		2025551301 (no dashes)
23	critical - administrator access only	email	text(50)	Contact email address		Fred.Flintstone@bedrock.com
contributor						
24	critical - administrator access only	name	text(50)	Name of the contributing agency or group within the agency providing observations		Bedrock Quarry Company
25	critical - administrator access only	contactName	text(50)	Contact person		Mr. Barney Rubble
26	critical - administrator access only	title	text(50)	Contact person title		Bedrock Mesonet Operator
27	critical - administrator access only	phonePrimary	text(10)	Contact phone (including area code)		2025551302 (no dashes)
28	critical - administrator access only	email	text(50)	Contact email address		Barney.Rubble@bedrock.com
organization						
29	critical - administrator access only	name	text(50)	Organization name		Loyal Order of Water Buffalo
30	critical - administrator access only	contactName	text(50)	Contact person		Mr. Slate
31	critical - administrator access only	title	text(50)	Contact person title		Organization that owns the Bedrock Quarry
32	critical - administrator access only	phonePrimary	text(10)	Contact phone (including area code)		2025551300 (no dashes)
33	critical - administrator access only	email	text(50)	Contact email address		Slate@bedrock.com
sensor-specific information						
34	critical	obsType	text(50)	Type of observation collected by this sensor; based on NTCIP 1204 types (see 1204 worksheet)		essAirTemperature
35	critical	sensorIndex	integer	The order of like sensors; used to distinguish one of a set of like sensors associated with a particular station		when multiple sensors are involved at one station: puck 0, puck 1, puck 2, puck 3
36	critical	minRange	real	Minimum value for sensor range (hardware) test, as defined by the sensor manufacturer or the instrument owner	X	minimum sensor range temp = 160.0 Degrees or the minimum sensor range temp set by the operator = -100.00 (whichever is most restrictive)

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37	critical	maxRange	real	Maximum value for sensor range (hardware) test, as defined by the sensor manufacturer or the instrument owner	X	maximum sensor range temp = 220.0 or maximum sensor range temp reporting = 150.0 (whichever is most restrictive)
38	critical	distGroup	integer	Identifies distribution group to whom data from this sensor can be provided. Note: placing a one in this field will not allow distribution of this observation and its associated quality checks to anyone including the contributor		1 = DON'T distribute, 2 = distribute to everyone, etc
39	critical - but not necessarily owner provided	ratePos	real	Maximum positive rate of change during the time period defined by rateInterval, and as used by step test	X	20.0 degrees
40	critical - but not necessarily owner provided	rateNeg	real	Maximum negative rate of change during the time period defined by rateInterval, and as used by step test; reported as a negative number	X	-20.0 degrees
41	critical - but not necessarily owner provided	rateInterval	real	Interval of time, in seconds, over which ratePos & rateNeg apply in the step test	X	3600.0 seconds or 1 hour
42	critical - but not necessarily owner provided	persistInterval	real	Amount of time, in seconds, that the observed value can remain constant (not change). Used for the persistence test	X	14000.0 seconds or 4 hours
43	critical - but not necessarily owner provided	persistThreshold	real	Smallest amount of change that is allowed between observations. Used for the persistence test	X	0.2 degrees
44	critical - but not necessarily owner provided	likeThreshold	real	Largest observed difference that is permitted among like instruments. Used during the like instrument test	X	1.0 degree
sensorType						
45	critical	mfr	text(50)	Manufacturer of sensor		Vaisala
46	critical	model	text(50)	Manufacturer's model number of sensor		DSC111
site-specific information						
47	critical	description	text(50)	Description of site, as used by the contributor (e.g., "Seward Highway @ Portage Glacier Road")		Fairfax County Parkway @ Reston Avenue
48	critical - but not necessarily owner provided	stateSiteId	text(50)	Contributor's identifier for the site		stateSiteId = 315
station-specific information						
48	critical	category	text(1)	The category of station - "P" permanent, "T" transportable, "M" mobile, "O" other		P
49	critical	stationCode	text(50)	The contributor's station identifier; this may be different than the stateSiteID to allow more than one station at a given site		stationCode = 48
50	critical	locBaseLat	real	The latitude location of the base of the station tower or RPU stand, in decimal degrees (e.g., 34.567); positive values are North latitudes. Value can hold up to 9 digits of precision		37.4821
51	critical	locBaseLong	real	The longitude location of the base of the station tower or RPU stand, in decimal degrees (e.g., -123.456); negative values are West longitudes. Value can hold up to 9 digits of precision		-113.22
52	critical	locBaseElev	real	The elevation location of the station base (tower or RPU stand) in meters from mean sea level		135.5