Data specification table for DEA Waterbodies 3.0 shapefile

Field name	Description	Update Frequency	Data Availability***	Status^	Type
uid	A unique identifier determined from waterbody location and data version	Once per version	Shapefile, DEA Maps, WMS, csv	Existing	String
perimetr_m	Perimeter of the defined waterbody (m)	Once per version	Shapefile, DEA Maps, WMS	Existing	Real
area_m2	Area of the defined waterbody (m^2)	Once per version	Shapefile, DEA Maps, WMS	Existing	Real
dt_wetobs	The last date any water was observed. This is subject to the satellite having clear visibility of the waterbody. The satellite must view 80% of a waterbody to have a valid wet observation recorded.	As scene input data is available*	DEA Maps, WMS	New	DateTime (UTC)
wet_sa_m2	The total estimated wet surface area calculated from the last clear satellite observation of the waterbody. Calculated as the wet percentage (pc_wet, see timeseries) multiplied by the waterbody area (area_m2) divided by 100.** Any area estimates should be compared to additional data for verification.	As scene input data is available*	DEA Maps, WMS	New	Real
dt_satpass	The most recent date that the satellite passed over the waterbody.	As scene input data is available*	DEA Maps, WMS	New	DateTime (UTC)
dt_updated	The date that the dt_wetobs, wet_sa_m2 and dt_satpass attributes were last updated.	As scene input data is available*	DEA Maps, WMS	New	DateTime (UTC)
dt_created	The date the polygons were created	Once per version	Shapefile, DEA Maps, WMS	New	DateTime (UTC)
meta_url	The metadata url for this dataset	Once per version	Shapefile, DEA Maps, WMS	New	String
timeseries	The Amazon S3 location of the wet percentage time series for this waterbody. The timeseries data is stored in a CSV file with the following columns: date (DateTime UTC) – date of observation pc_wet (Float) – percentage of the waterbody recorded as wet (0-100) px_wet (Integer) – number of 30m Landsat pixels recorded as wet	Value is static, but the csv contents are updated as scene input data becomes available*	Shapefile, DEA Maps, WMS	Existing	String

Data specification table for DEA Waterbodies 3.0 timeseries csv

Field name	Description	Update Frequency	Data Availability	Status	Type
date	date of observation (UTC)	Value is static, but the csv contents are updated as scene input data becomes available*	DEA Maps, csv	Existing	DateTime (UTC)
pc_wet	percentage of the waterbody recorded as wet (0-100)	Value is static, but the csv contents are updated as scene input data becomes available*	DEA Maps, csv	Existing	Float
px_wet	number of 30m Landsat pixels recorded as wet	Value is static, but the csv contents are updated as scene input data becomes available*	DEA Maps, csv	Existing	Integer

* Scene data is available approximately two weeks from the satellite overpass for the Water Observations feature layers used to process Waterbodies. Waterbodies scenes are processed as Water Observations feature layer scenes become available in the DEA datacube. It takes approximately ten minutes to process Waterbodies per scene. One Landsat scene measures approximately 190 x 180 km https://www.nasa.gov/wp-content/uploads/2015/04/landsat_9_fast_facts.pdf

** Larger waterbodies are easier to detect and smaller or narrower waterbodies are harder to detect. Area estimates should be compared to additional data for verification.

*** Data fields empty in shapefile (dt_wetobs, wet_sa_m2, dt_satpass, dt_updated) are available for the latest relevant observations only via DEA Maps and WMS

^Data fields introduced in v3.0 are 'New'