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| Version 2.0 | June, 2016 |
| * Released the data cube by moving it from AGDC version 1 to version 2 and porting all the associated algorithms with it. | |
| Version 2.1 | 9/20/2016 |
| * Refactored the template system to be more flexible. * Modified the WOFS water analysis process found in the python notebooks in order to optimize for a low memory footprint. * Used the existing template in order to include the WOFS tool in the python notebooks. * Used the existing template in order to add the WOFS tool into the CEOS Data Cube UI. * Modified the task manager to include additional tasks such as water detection. * Included an empty sample application template in order to add any tools in future. | |
| Version 2.2 | 10/19/2016 |
| * Refactored the template system to be more flexible. * Enabled basic parallel processing for quick output generation. * Integrated compositor tool into the CEOS Data Cube. * Used the existing template in order to include the Total Suspended Matter (TSM) tool in the python notebooks. * Used the existing template in order to add the TSM tool into the CEOS Data Cube UI. * Used the existing template in order to include the Fractional Cover RAPP tool in the python notebooks. * Used the existing template in order to add the Fractional Cover RAPP tool into the CEOS Data Cube UI. * Added more comments in order to improve readability of the existing source code. | |
| Version 2.3 | 12/30/2016 |
| * NDVI Anomaly python notebook * L5/7/8 Combined WOfS notebook and UI * SLIP notebook and UI * Basic website features such as account creation, newer menus, etc * Refactor of database design to reduce duplication * More documentation | |
| Version 2.4 | 1/18/2017 |
| * Added Jupyter notebook demonstrating basic Data Cube metadata and data access using the AGDC-V2 and CEOS COVE APIs * Added Jupyter notebook illustrating calculation of mean NDVI over time series data | |
| Version 2.5 | 2/21/2017 |
| * Added two (2) Coastal Change products to the UI. * Improved styling and responsiveness of UI. * Combined Mosaics for a hybrid L7-8 product. * Added more pixel metadata (date and satellite). * Performed clean-up of UI source code. | |
| Version 2.6 | 3/28/2017 |
| * Updated agdc-v2 codebase to latest * ALOS, JERS, and Sentinel-1 ingestion scripts and configuration files * Generalized ingestion script (Related to Colombia's request – meant to ingest arbitrary GeoTIFF data) * Sentinel-1 mosaic example – Jupyter notebook * Sentinel-1 and Landsat Clustering example – Jupyter notebook * Sentinel-1 water detection example – Jupyter notebook * UI based test ingestion * Data Cube database manager functionality * Minor UI updates, documentation, and refactoring | |
| Version 2.7 | 6/2/2017 |
| * Updated documentation, notebook examples, source code with Leaflet * Tweaked configuration files/scripts for the newer Landsat Collections data * Added Sentinel-1 preprocessing script cloned from a GA repo * Added PyCCD implementation, Clustering utility, SAR data processing utility and notebook example * Auto generation of UI pages ability, automation for UI setup –only configuration details | |
| Version 2.8 | 7/10/2017 |
| * Cloud cover percentage algorithm on Jupyter Notebooks and UI * Urbanization algorithm on Jupyter Notebooks and UI * Lake Chad Case Study with GPM/Landsat – Tutorial Jupyter Notebooks * 2D plots within the UI * Data Cube manager functionality including interaction with the database using a UI, configuration validation, add/delete datasets and dataset types, and ingestion using UI * Ingestion on-demand * Bug fixes and optimizations for all utilities/UI pages * Updated documentation, including new ingestion documentation and improvements throughout our existing documentation * Integration of visualization tool * Transect plot UI tool and notebook * Additional ingestion/dataset configuration files * Updated core AGDC/ODC codebase to latest stable version based on the official ODC release | |
| Version 2.9 | 9/1/2017 |
| * Example Jupyter notebooks showcasing Data Cube algorithms and functionality * Spectral indices calculator UI application * New TSM UI products including max, min, and variability * General refactor and update of various UI files include staticfiles, database dumps, and documentation * Utility reorganization and a start to automated testing * Changes to Data Cube on Demand (Sub-setting of Cube) that allows for ingestion requests from existing ingested data | |
| Version 2.10 | 9/14/2017 |
| * WCS implementation for fetching data from a remote data cube. * WCS test scripts/data for testing the newly developed WCS implementation. * WCS documentation such as user’s guide, getting started guide, etc. * WCS url made available for testing the QGIS ODC Plugin | |
| Version 2.11 | 10/11/2017 |
| * Plotting utility to the UI * Refactoring source code * Bug fixes to UI * Addition of new ingestion configuration * More documentation | |
| Version 2.12 | 02/04/2018 |
| * QGIS ODC Plugin * Sentinel-1 notebook for exploration * Advanced Land Observation Satellite (ALOS) notebook for exploration * Python Continuous Change Detection (PyCCD) notebook with new plots * Water Across Synthetic Aperture Radar Data (WASARD) (on Sentinel-1) notebook * Water Across Synthetic Aperture Radar Data (WASARD) (on ALOS) notebook * Geometric median mosaicking of Landsat imagery (notebook and UI) * Transect and Hovmoller Plots notebook * Clustering (K-means) notebook * Ghana basic training notebooks (RGB, spectral indices, etc.) (for its own EC2 instance) * Refactoring source code * Bug fixes to UI * Additional documentation on installation, ingestion, and analysis, etc. including common mistakes and their their resolution * Addition of new ingestion configuration such as ALOS ScanSAR, etc | |
| Version 2.13 | 03/30/2018 |
| * Jutyper notebooks with regions from Caqueta, Samoa, Tonga, South Africa, Honduras with Landsat, S1, ASTER DEM, ALOS2 PALSAR ScanSAR data * Jutyper Notebooks such as Deutscher algorithm, NDVI trend, NDVI Anomaly, pixel\_qa visualization/report * Refactoring source code: general reorganization of notebook utilities/front end UI code * Additional documentation on installation, ingestion, and analysis, etc. * Addition of new ingestion configuration such as S1 from GEE, ALOS ScanSAR, etc. | |
| Version 2.14 | 06/30/2018 |
| * NDVI Thresholds notebook * NDVI Standard Deviation notebook * NDVI Phenology notebook * Clustering notebook with a plot to indicate the percentage of pixel in each class * Random Forest machine learning notebook for land classification * EVI notebook to support "looping over chunks" instead of processing monolithic data in-place * Time-series plot for a single band statistic (CometTS-like) * Bug fixes to UI * Change from line to scatter plot to the UI time-series pixel drill chart * CEOS Data Cube User Interface User’s Guide * Refactoring source code: general reorganization of notebook utilities/front end UI code * Additional documentation on installation, ingestion, and analysis, etc. * Addition of new ingestion configuration such as S1 from GEE, ALOS ScanSAR, etc. | |
| Version 2.15 | 09/30/2018 |
| * Updated NDVI Anomaly notebook * Updated NDVI Phenology notebook with newer plots * Updated NDVI STD notebook * Updated ALOS PALSAR Demo notebook with newer analysis * Updated Landsat-based WASARD notebook * Updated Sentinel-1 Deutchser algorithm notebook * A new Landsat scene analysis notebook * Updated Random Forest machine learning notebook for land classification * Utilities functions for plotting custom timeseries * Several bug fixes to the UI in config and source code * Geometric Median functionality in the UI * Refactoring source code: general reorganization of notebook utilities/front end UI code * Additional documentation on installation, ingestion, and analysis, etc. * Move from agdc-v2 to the latest ODC core for all the CEOS-SEO systems – UI/Notebooks. * Documentation update from agdc-v2 to the latest ODC core for all the CEOS-SEO systems. | |
| Version 2.16 | 10/26/2018 |
| * UN SDG Water Extent Notebook * UN SDG Water Extent Notebook on S3 L-1 Landsat index data * UN SDG Urbanization Notebook * UN SDG Land Degradation Notebook * Shallow Water Bathymetry Notebook * Addition of a shapefile capability to the mosaic notebook * Demo Notebook for allowing users to input UTM coordinates (Easting/Northing) vs. Lat-Lon * Addition of Min-NDVI to notebook library for mosaics * Several bug fixes to the UI in config and source code * Refactoring source code: general reorganization of notebook utilities/front end UI code * Additional documentation on installation, ingestion, and analysis, etc. | |