New Since OCRT 2012

• No longer beta!
  – 7.0 released 22 April 2013
  – 7.0.1 released 22 October 2013
  – 7.0.2 released 14 January 2014

• Support for more missions
  – HICO
  – GOCI

• Improvements to the processing GUIs
• Coastline – Land/Water Mask
• Multi-level processor Python script
Coastline & Land/Water Mask
# Multi-level Processor

![Image of a software interface](image)

## Program List

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**Run**, **Cancel**, **Apply**
Version 7.1 - coming your way

• Release to coincide (as closely as possible) with the BEAM 5.0 release and the multi-mission reprocessing (i.e. soon…)

• A new look
  – Updated icons
  – Reorganized menus

• New Features
  – Contour lines
  – Bathymetry

• Support for new netCDF4 files from OBPG

• GUI support for a “new” L3 Bin data access tool - l3bindump
The New Look
Contour Lines
Bathymetry
**L3bindump**

- Allows direct access to data in the L3 bin dump files (not mapped).
- Spreadsheet format:
  - Plain CSV
  - SeaBASS formatted header

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Video Tutorials

• Hosted on YouTube in an OBPG channel under the NASA Goddard channel
• 5-minute (or less) snippets

• Basic file (product) load and display
  – view product info
  – color manipulation
  – pixel info
  – Session Management

• Export data
  – GeoTIFF, HDF5, netCDF, flat binary (DIMAP), CSV, Shapfile, Google KML, Image formats

• View/create masks
  – Add coastline/landmask
  – create masks from data/flags
  – add geometries

• Statistics; Histogram; Scatterplot; Profile
• Band Math
• Create Filtered Bands
• Collocation Tool
• Spatial Subset Tool

• Point Data
  – Pins
  – Vector data import
  – Correlative data (ShipTrack)
  – Pixel Extraction

• Mosaic Tool
• Navigation
  – Ground Control Points
  – Attach geo-coding

• Data Processors - one per program
• Image Analysis
  – K-Means Cluster Analysis
  – EM Cluster Analysis
  – Spectral Unmixing
  – Time-series Analysis

• OPeNDAP tool
• Graph Processing Tool
**What the future will bring**

- **Client/Server Processing**
  - Allow local SeaDAS to run processing on a remote server
  - Provide capability for processing on Windows

- Python API for extending SeaDAS (well, BEAM, too – this is part of the BEAM 5 base)
The ESA Sentinel Toolbox... and how it will affect SeaDAS

• One software, three toolboxes
  – one for each Sentinel mission
  – SeaDAS would be a fourth “toolbox”

• Common source code version control and code repositories for core program

• Common plug-in repositories

• Common installer software

• Common software distribution channels
...and thanks! go out to ...

- The SeaDAS Irregulars
  - Aynur Abdurazik
  - Matt Elliot
  - Danny Knowles
  - Don Shea
- The BEAM developers at Brockmann Consult, Hamburg, Germany
An Example Tutorial