Time-based queries and single image map services

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Background – iMars

DETECTION of SURFACE CHANGES
HRSC DATA as GEODETIC BASIS (recent mosaics, existing single images)
AUTOMATIC CO-REGISTRATION of SUITABLE IMAGE DATA
CO-REGISTERED DTMs from CTX and HIRISE
AUTOMATED CHANGE DETECTION (CLOUD)
CITIZEN SCIENCE (CROWD) CHANGE EVALUATION

WEB-GIS for VISUALIZATION of SURFACE CHANGEs
HTTP://IMARS.PLANET.FU-BERLIN.DE
(will be moved to new address)
Based on OGC: WMS, WMS-T, WMTS, WCS
iMars user interface (frontend)
Data services (HRSC) – layer-based

Web Coverage Service (WCS) 16 Bit
- HRSC DTM (single image mosaic)
- HRSC quadrangle-based bundle-block adjusted DTM mosaics
- HRSC quadrangle-based panchromatic mosaic

Web Map (Tile) Service (WMTS) 8 Bit
- Colour coded versions of the HRSC DTMs
- Quadrangle-based HRSC colour mosaic
- Footprints of HRSC sequences+ products – time support! (WMS-t)

Web Feature Service (WFS) - Vector
- Footprints of HRSC images with time support

Coordinate Reference System: MOLA-truncated sphere (3396.0 km radius)
Data services - single images

GetMap Request with additional vendor parameter:
http://imars.planet.fu-berlin.de/eqc/ … &
  LAYER=hrsc4 &
  PRODUCTID=h5163_0009.nd4.70 & …

Inclusion in VESPA catalog?
QGIS python plugin?
Backup Slides
Topography background layer
Topographic background
Topographic background
MC image mosaics
MC image mosaics
Vector overlays
PDS data coverages
Metadata display
Time filtering
Time filtering
Animation of time series
Animation of time series
Animation of time series
Animation of time series
Animation of time series