201805 Volcano_Kilauea_HI Data Sources

Geospatial Information and Remotely Sensed Imagery Products

June 26, 2018

Hazards Data Distribution System (HDDS)

http://hddsexplorer.usgs.gov/

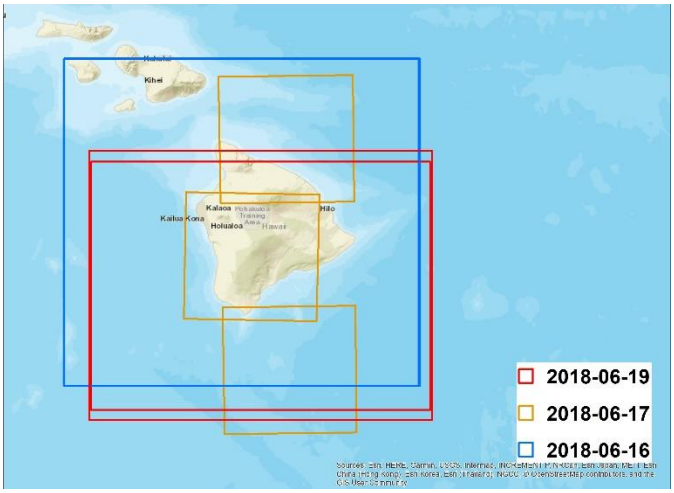
Select Event: "**201805_Volcano_Kilauea**" ➔ click on "+ "and then "Search"

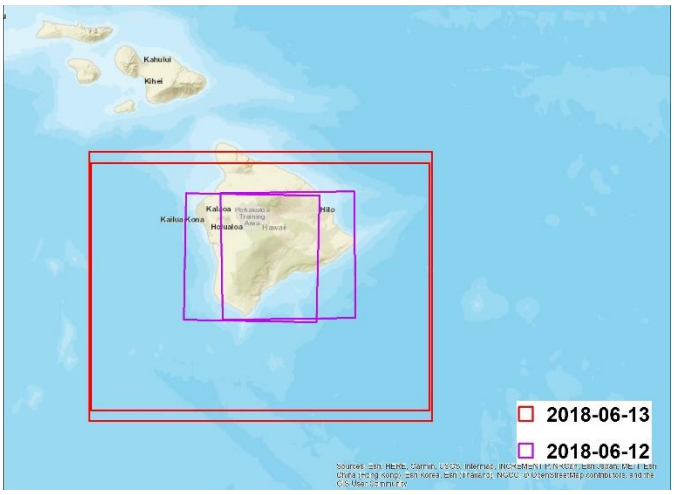
Download Shapefiles for image footprints

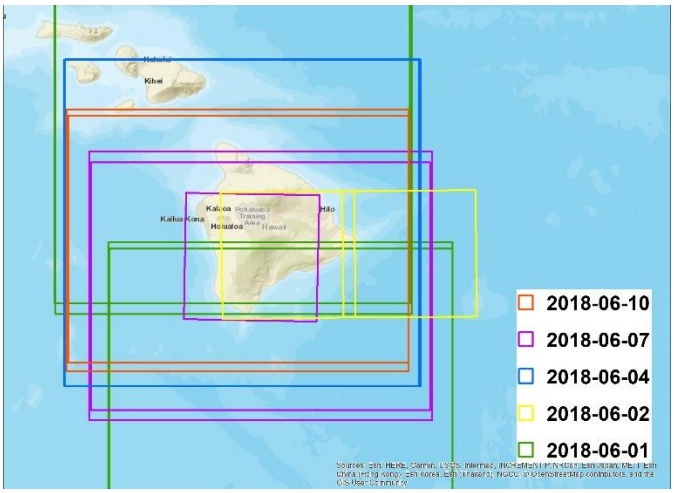
https://hddsexplorer.usgs.gov/data/list/disaster/201805_Volcano_Kilauea_HI/shapefiles/index

More information about HDDS: http://hdds.usgs.gov/hazards-data-distribution-system-hdds

Sentinel 1



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Kailua-Kona
Kaloa
Hilo
Holualoa
2018-06-10
2018-06-07
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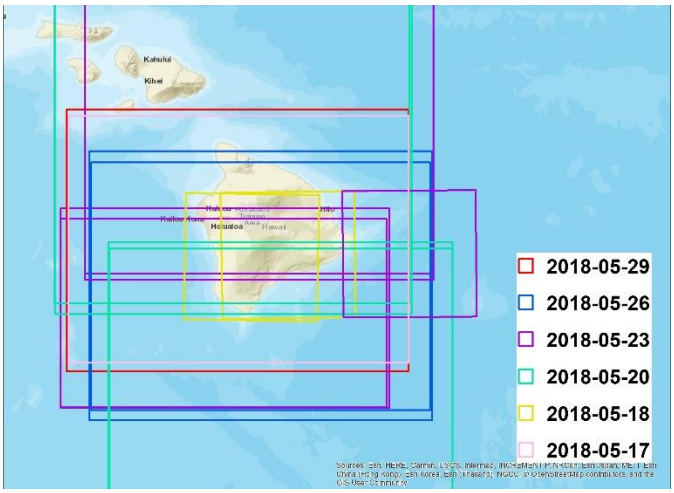
2018-06-02
2018-06-01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Hilo
Holualoa
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2018-05-18
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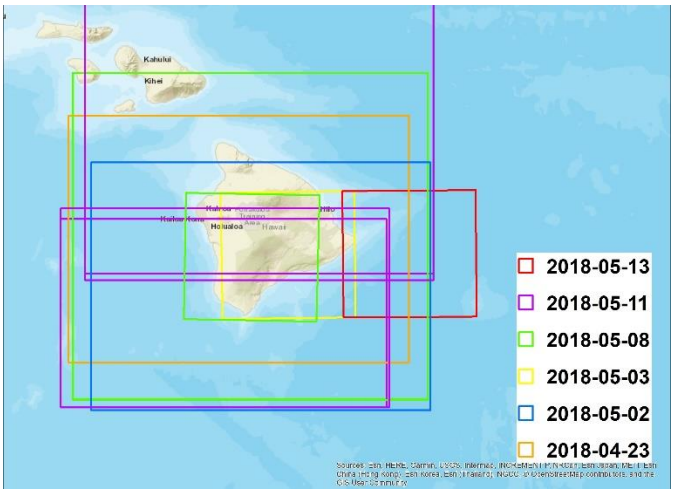
Kahului
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Hilo
Holualoa
2018-05-13
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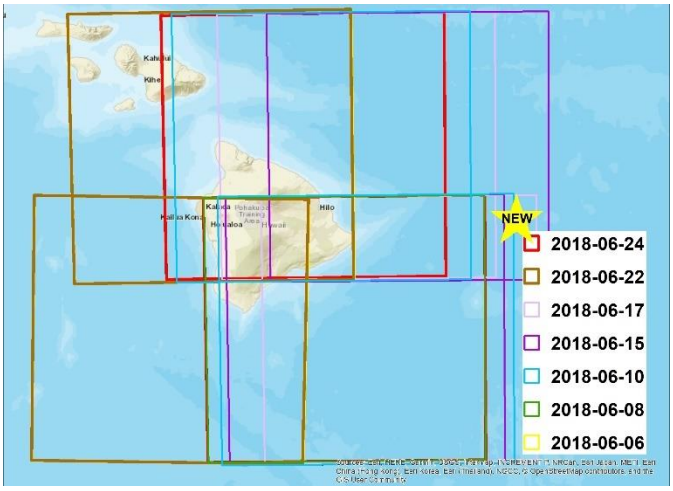
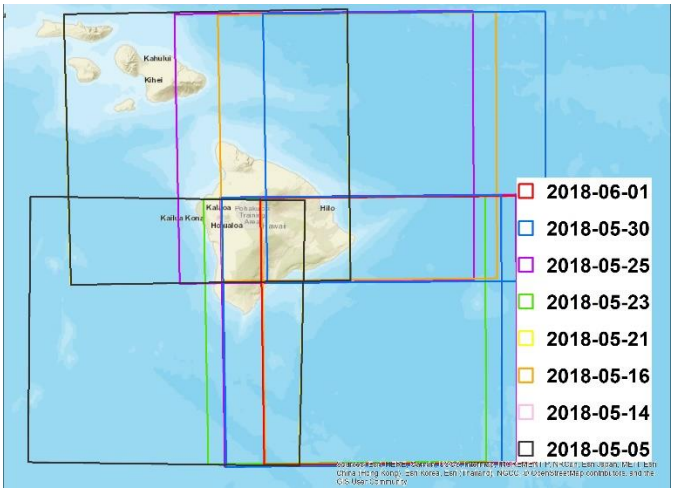
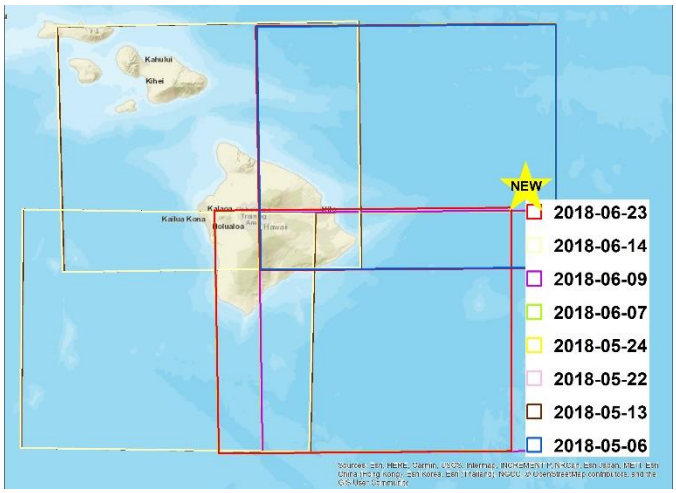
2018-05-03
2018-05-02
2018-04-23

Landsat 8

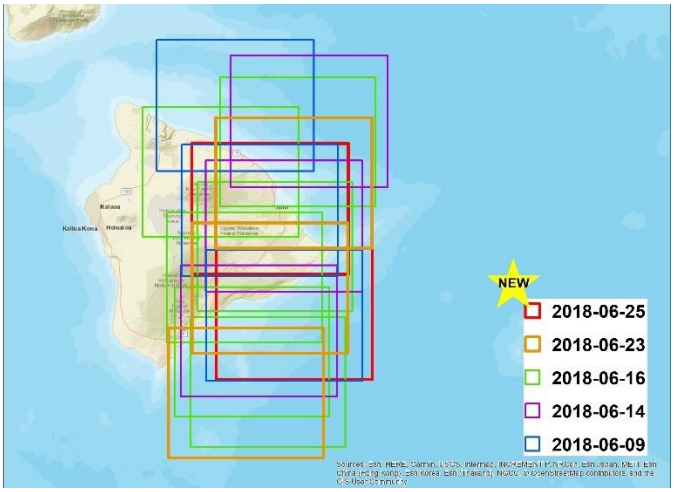




Landsat 7



ASTER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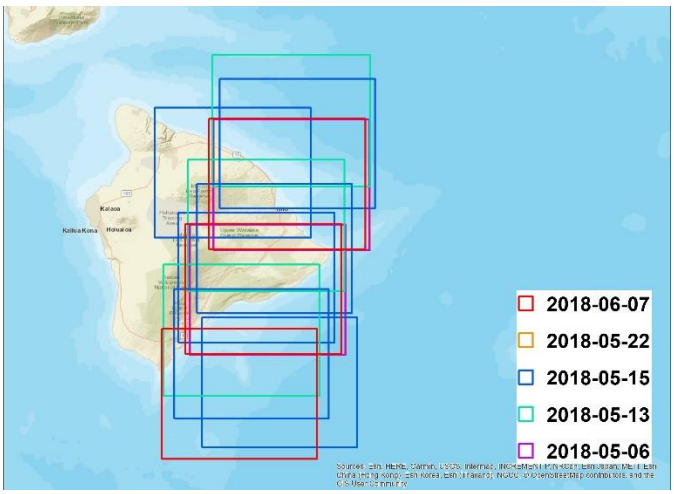
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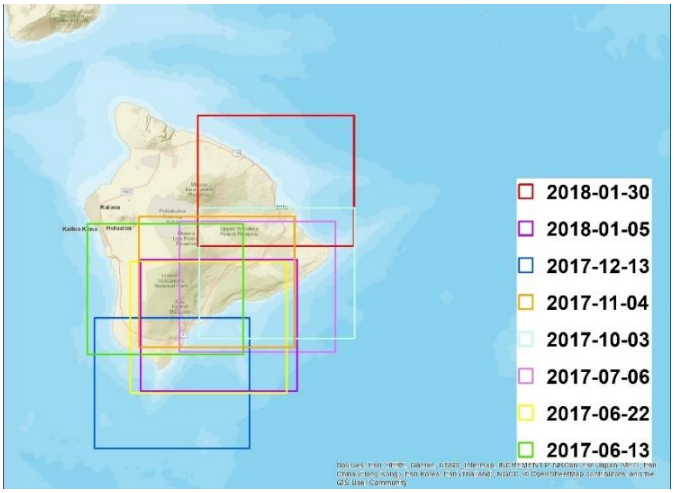
2018-05-06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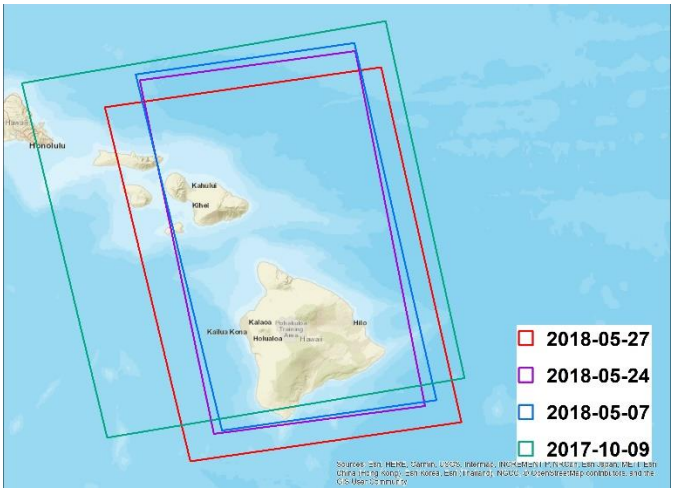
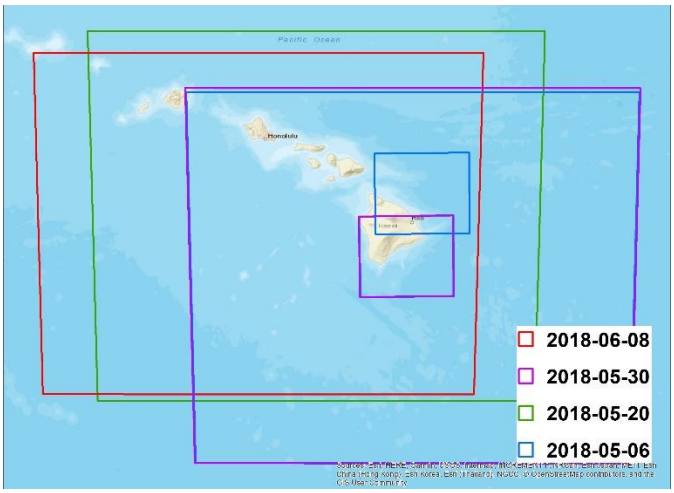
2017-06-22
2017-06-13

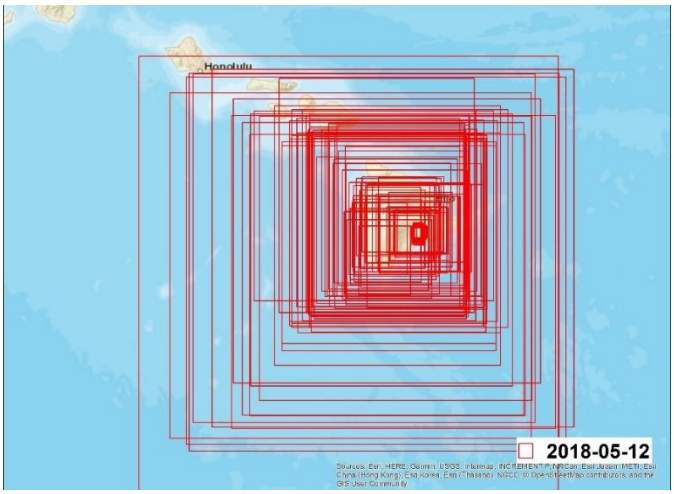
DMC



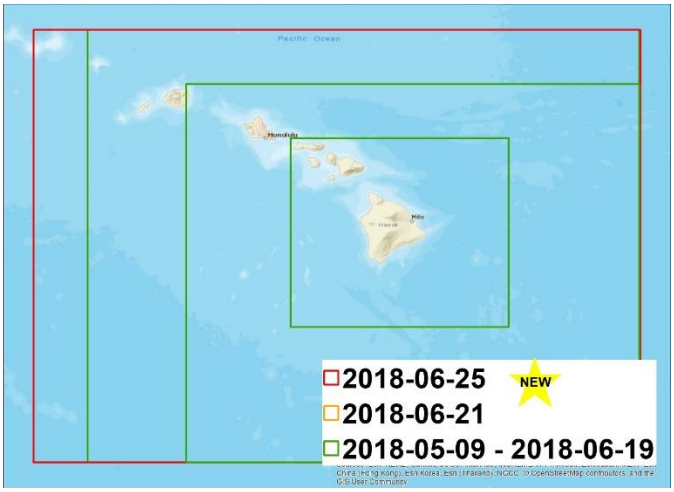
ISRO (AWiFS and LISS-3)



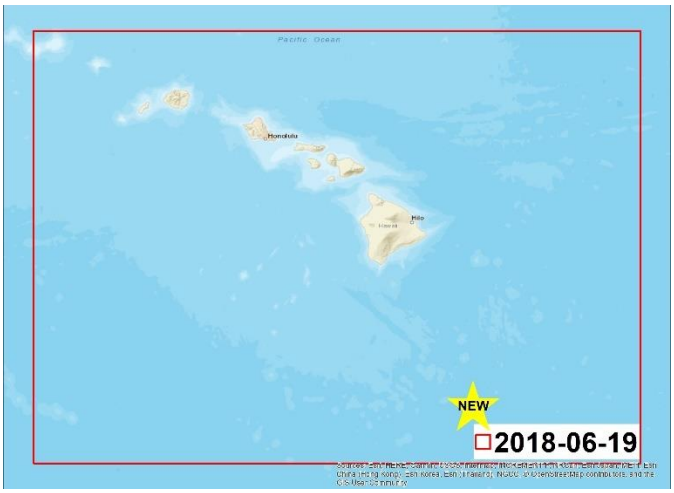
International Space Station



Reports USDA

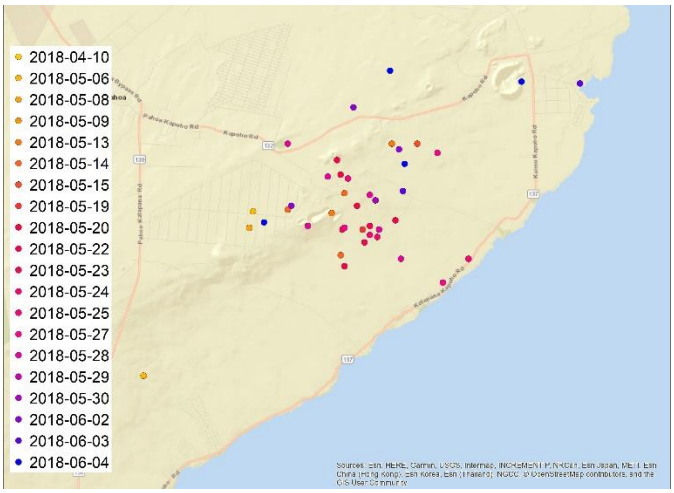


Reports NOAA

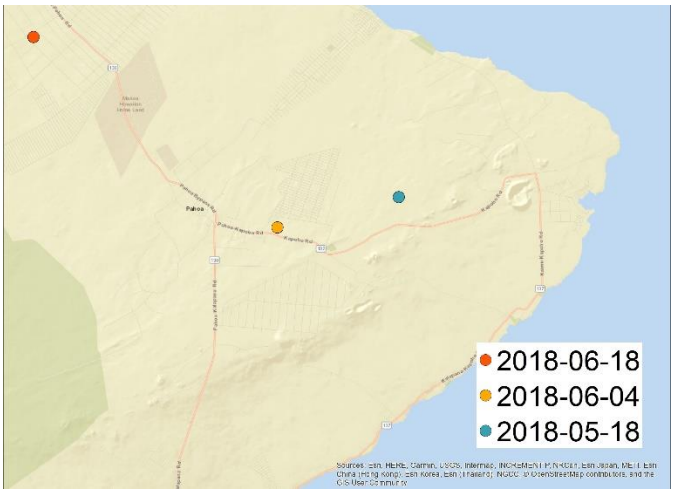


Map Products USGS Points

https://hddsexplorer.usgs.gov/data/list/disaster/201805_Volcano_Kilauea_HI/data/MAP_PRODUCTS_USGS



Map Products USGS WGS84



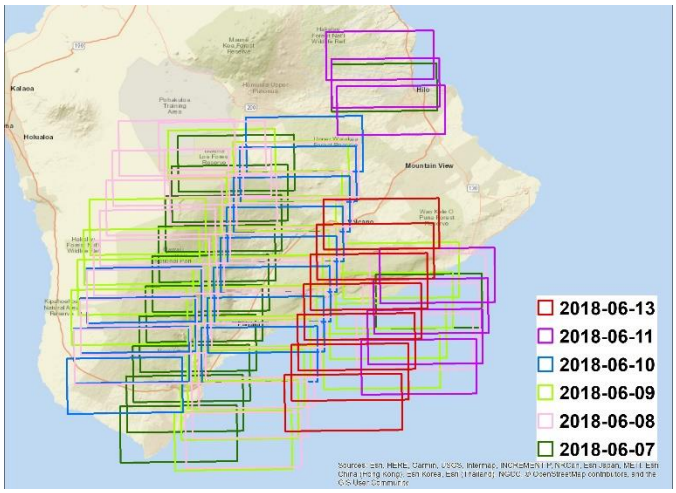
HDDS Restricted

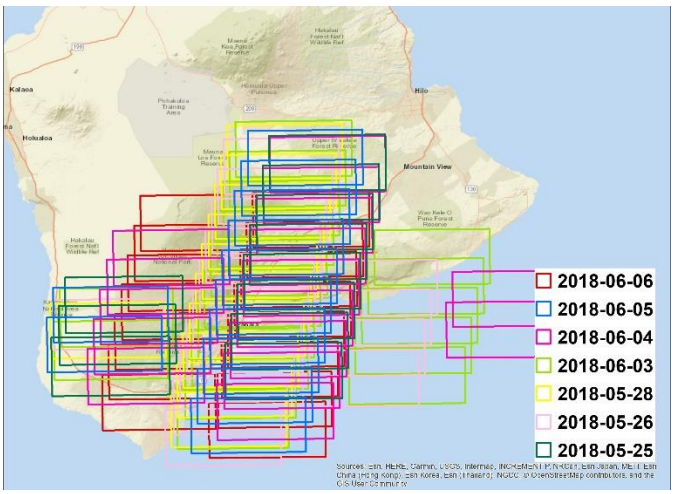
Self-Register for HDDS Restricted. http://hddsexplorer.usgs.gov/

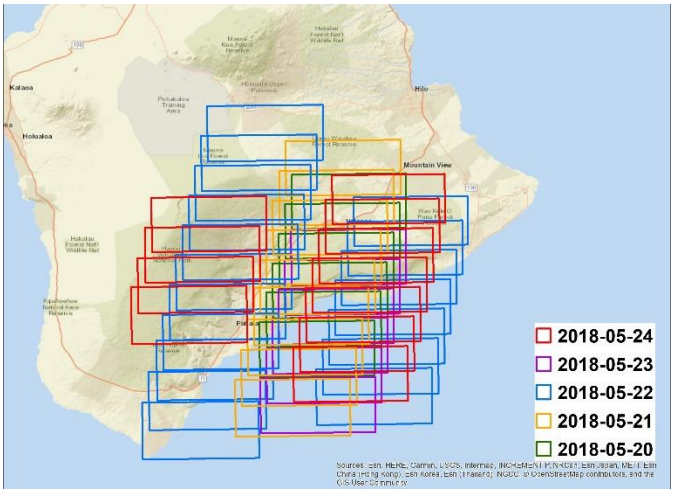
If you have not registered on either EarthExplorer or HDDS, click the register button in the top right corner of the screen and go thru the registration process. Once registered, you will have access to EarthExplorer and HDDS download capabilities. The first time you attempt to download restricted imagery, you will need to fill out an access request form for that event. Click on "Access" (upper right of HDDS screen), then select "To request access to restricted data click here". Select event from menu. Once granted access, you can download restricted imagery. (note: in most cases the restricted area contains licensed imagery, not all requests can be granted.)

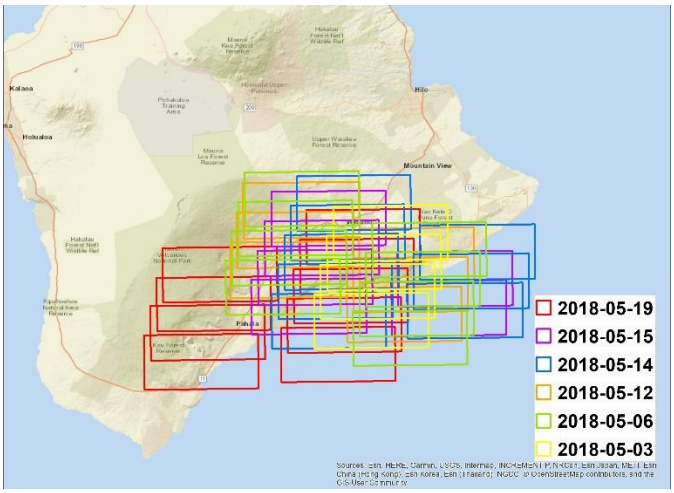
Request access: https://hddsexplorer.usgs.gov/access/request?event=201805_Volcano_Kilauea_HI

Planet (Licensed to USGS only)

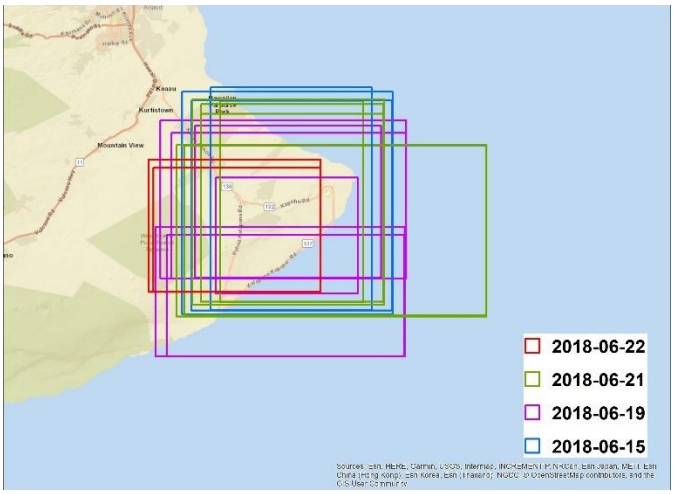


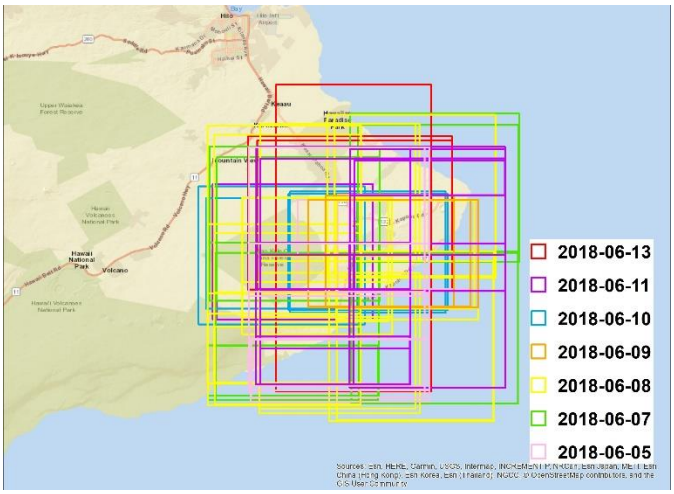





Kalaoa
Holualoa
Hilo
Mountain View
Pahoa
2018-05-19
2018-05-15
2018-05-14
2018-05-12
2018-05-06
2018-05-03

WorldView


Keaau
Kurtistown
Mountain View
2018-06-22
2018-06-21
2018-06-19
2018-06-15


Hilo
Keaau
Mountain View
Hawaii National Park
Volcano
2018-06-13
2018-06-11
2018-06-10
2018-06-09
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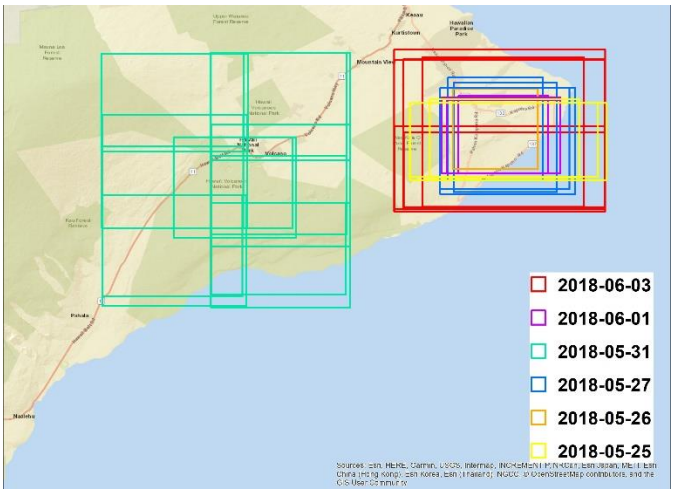
2018-06-07
2018-06-05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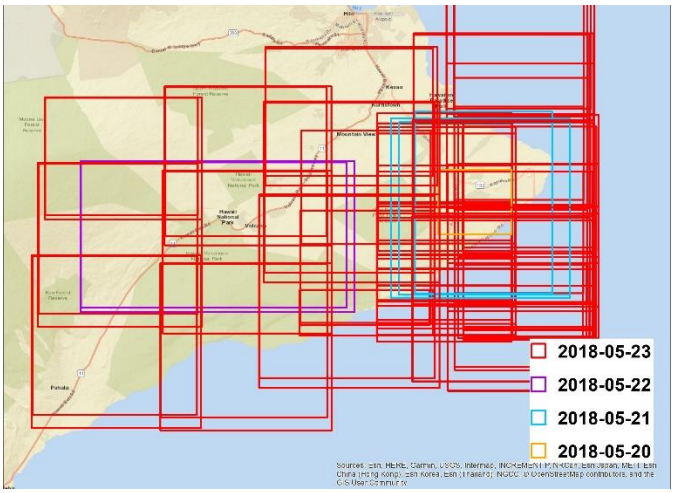
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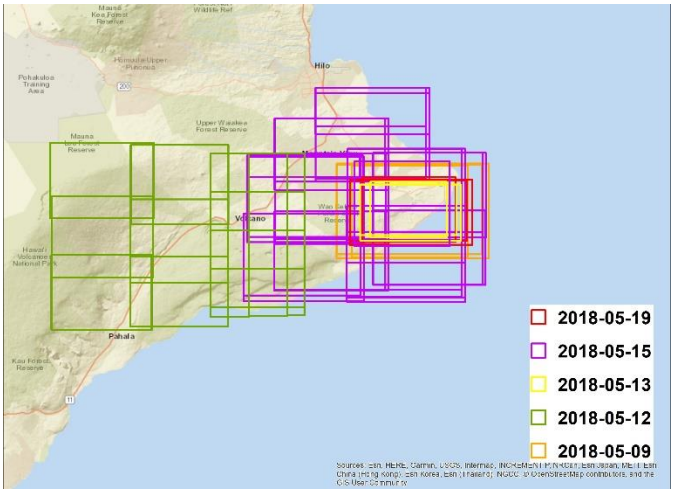
Hilo
Volcano
Pahala
2018-05-19
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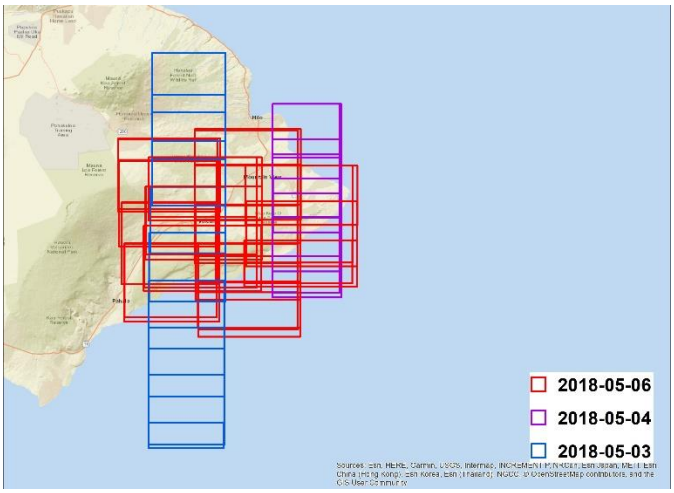
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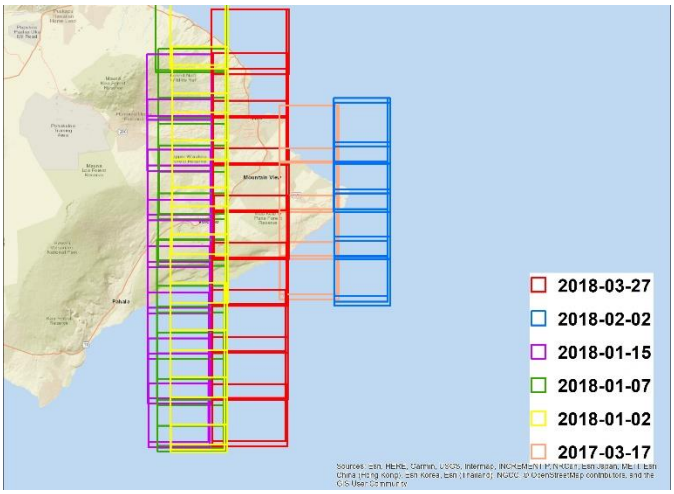
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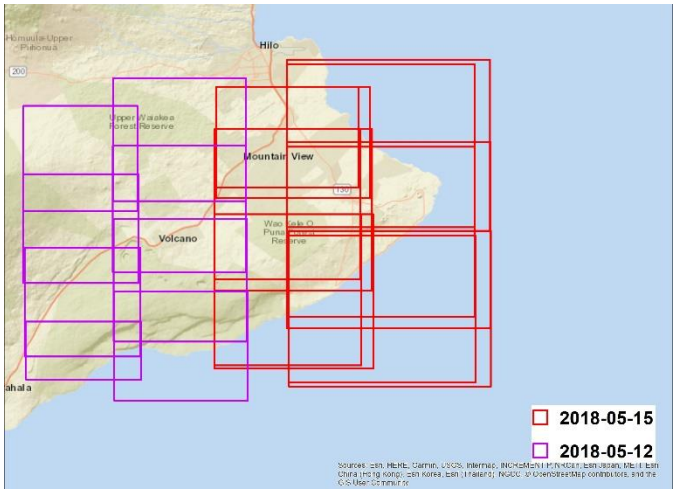
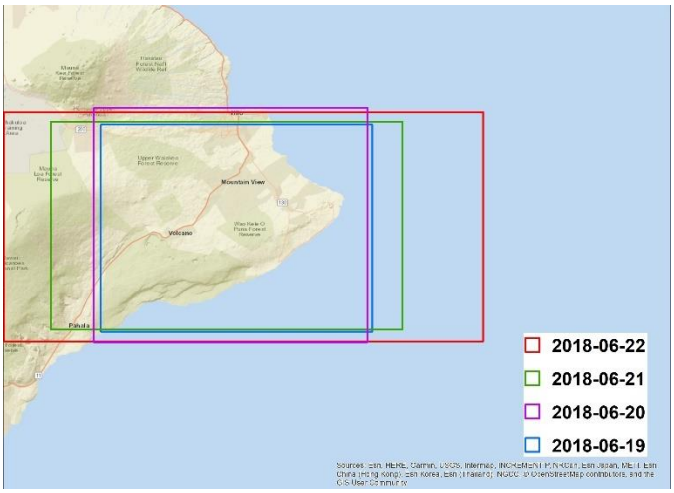
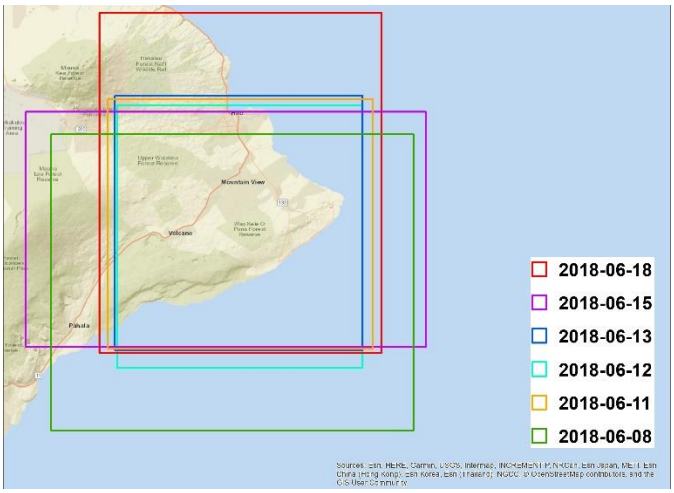
GEOEYE


Hilo
Mountain View
Volcano
2018-05-15
2018-05-12

SPOT


Mountain View
Volcano
Pahala
2018-06-22
2018-06-21
2018-06-20
2018-06-19


Mountain View
Volcano
Pahala
2018-06-18
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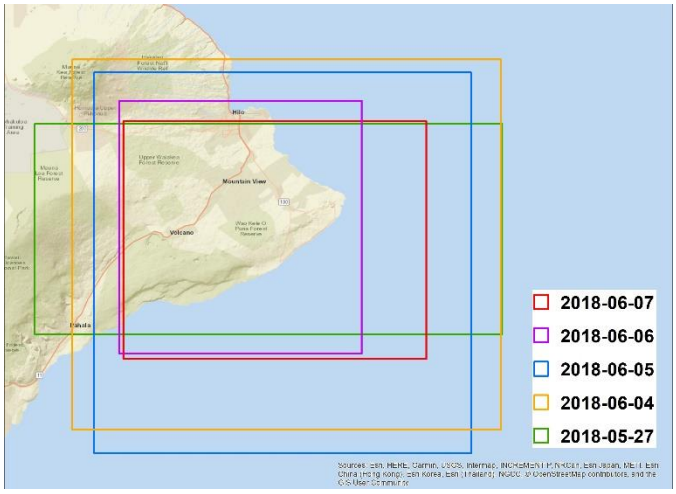
Hilo
Mountain View
Volcano
Pahala
2018-06-07
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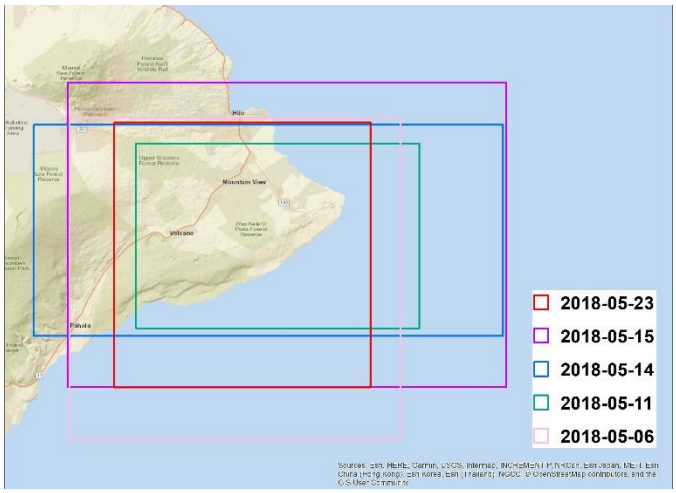
2018-05-27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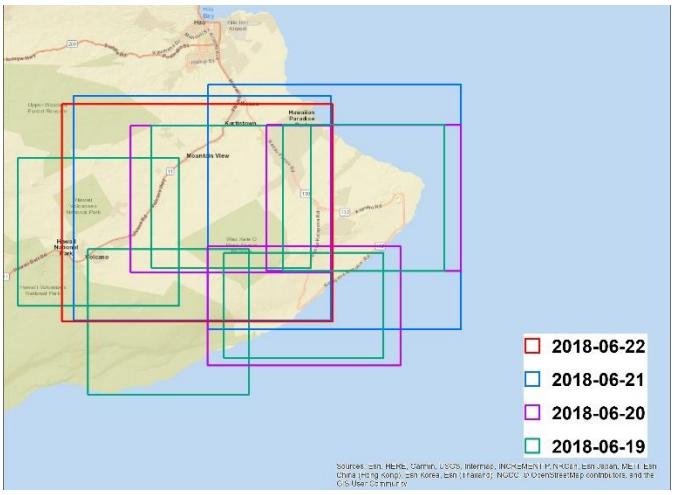
Mountain View
Volcano
Pahala
2018-05-23
2018-05-15
2018-05-14
2018-05-11
2018-05-06

Pleiades


Hawaiian Paradise
Mountain View
Volcano
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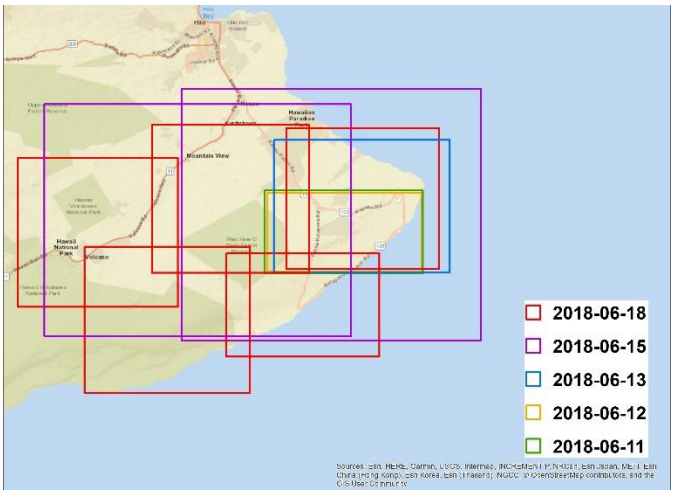
Hawaiian Paradise
Mountain View
Volcano
2018-06-18
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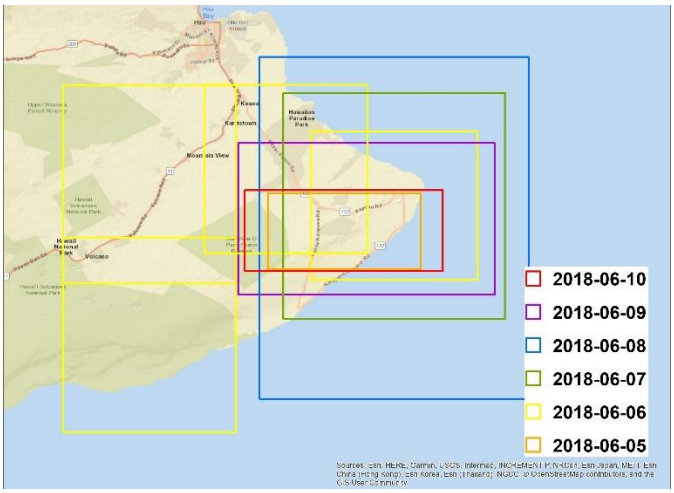
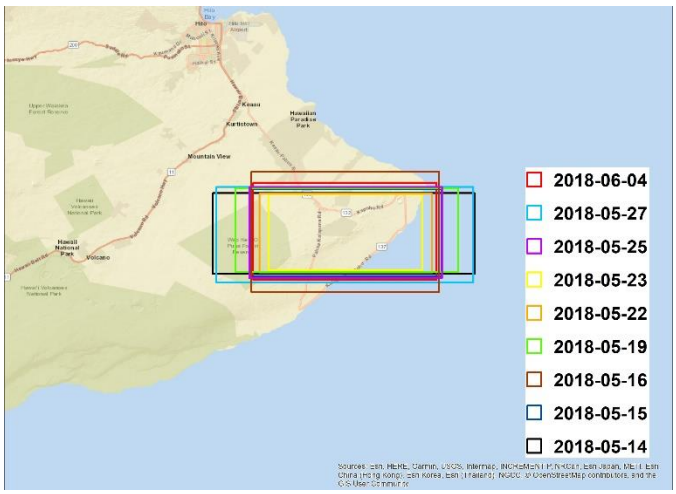
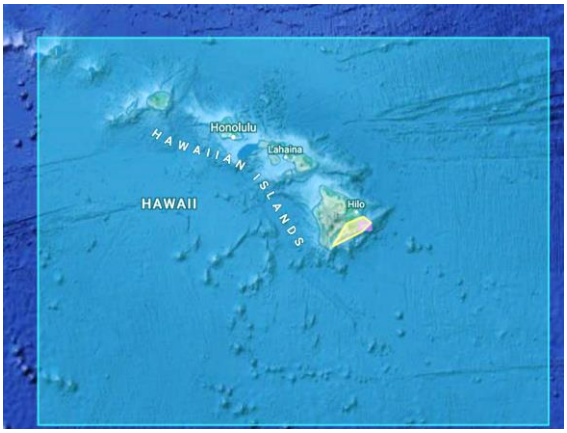




HDDS Emergency Operations – Collection Management Tool (area of interest for disaster imagery collections) Request new disaster related imagery here.

http://cmt.usg.gov/

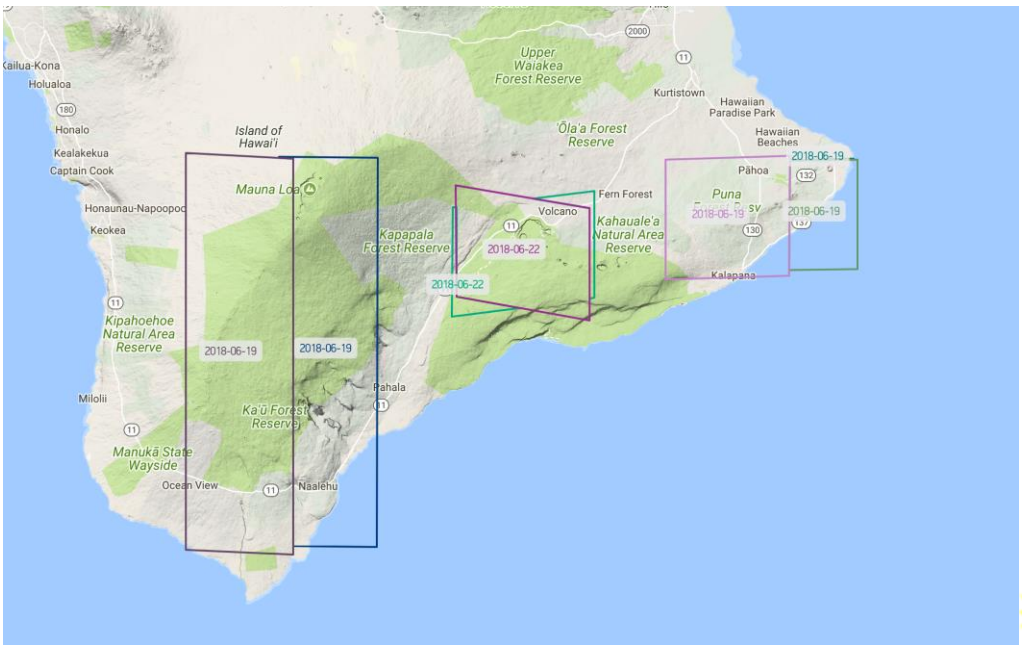


End HDDS

Digital Globe Imagery

Digital Globe imagery is available orthorectified in the NGA funded EnhancedView Web Service. Users with .gov or .mil emails can self-register.

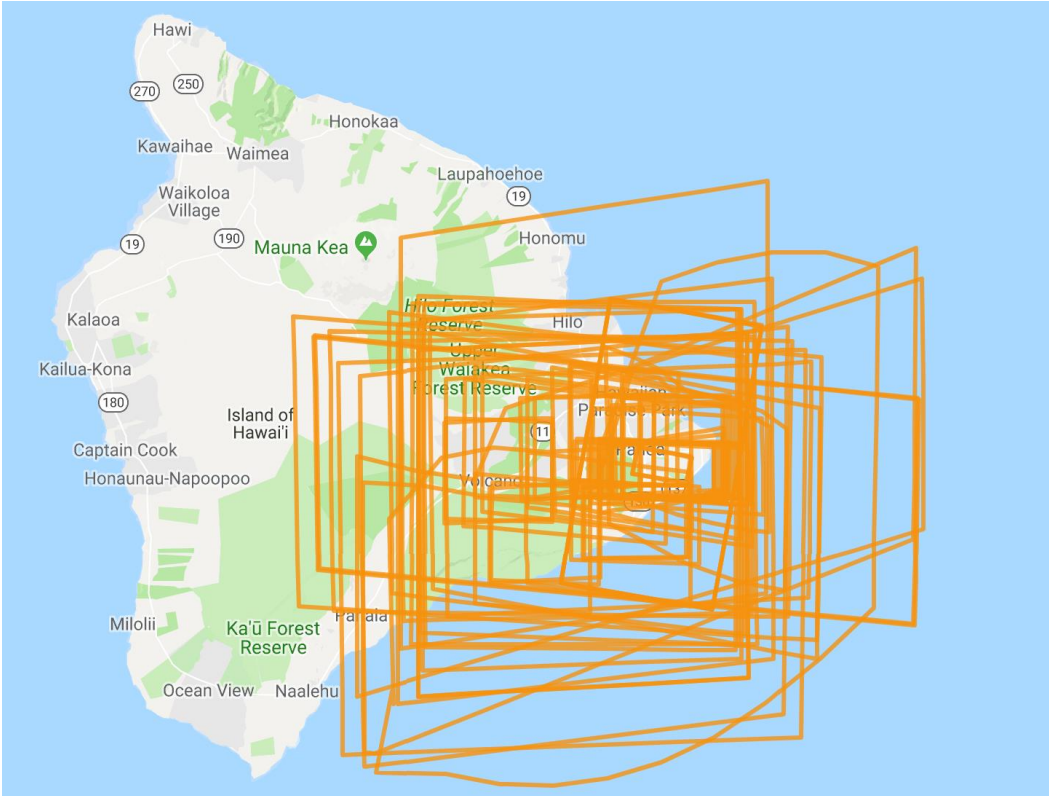
https://evwhs.digitalglobe.com/myDigitalGlobe/

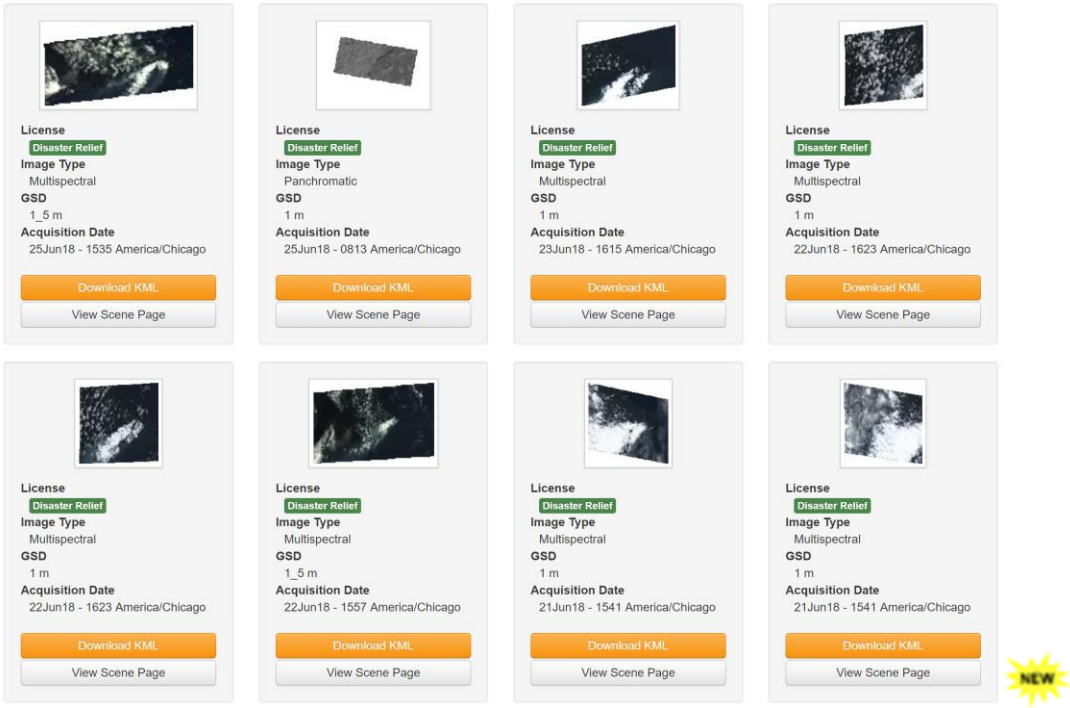


Imagery available from past 7 days

Eagle Vision

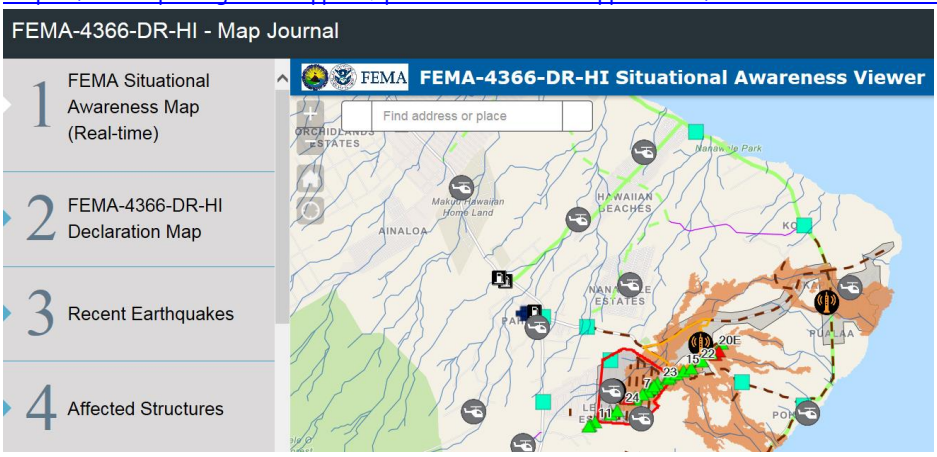
http://dev.evr2est.us/scenes/table and http://evr2est.us/





FEMA Map Journal

http://fema.maps.arcgis.com/apps/MapSeries/index.html?appid=8755fbe5ee434823b60736c9c03200d6



USGS Hawaiian Volcano Observatory

https://volcanoes.usgs.gov/observatories/hvo/

Update | **Monitoring** | **Photos** | **Maps** | **Webcams** | **Deformation** | **Air Quality** | **Videos**

https://volcanoes.usgs.gov/volcanoes/kilauea/status.html
https://volcanoes.usgs.gov/volcanoes/kilauea/multimedia_maps.html
https://volcanoes.usgs.gov/volcanoes/kilauea/multimedia_chronology.html
https://www.youtube.com/watch?v=szkWReGJ9Hs
https://www.youtube.com/watch?v=cZ1bkxAuxTk

USGS ScienceBase shows the latest flow mapping of lava extent

https://www.sciencebase.gov/catalog/item/5afe0ba7e4b0da30c1bdb9db

Smithsonian Institution, Global Volcanism Program.

http://volcano.si.edu/volcano.cfm?vn=332010

Pacific Disaster Center (Public Site)

http://www.pdc.org/

Pacific Disaster Center EMOPS (Requires registration)

https://emops.pdc.org/emops/

PDC - Volcanic Activity, Kilauea, Hawaii, Update 10MAY18

- "Volcano – Kilauea, United States" event in DisasterAWARE™:

https://emops.pdc.org/emops/?hazard_id=9479

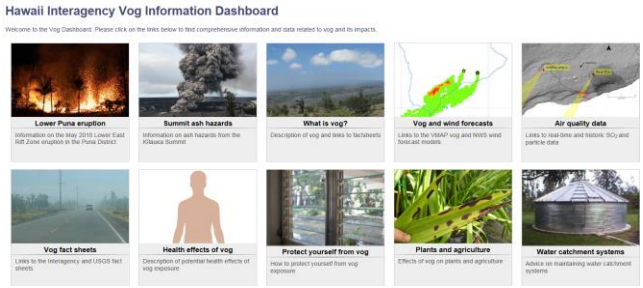
- PDC Situational Awareness product attached showing Current/Past Lava Extent
- Data (7 layers) integrated into DisasterAWARE:
    - Fissures (HI County Lava 2018)
    - Current/Past Lava Extent (HI County Lava 2018)
    - Earthquake M6.9 Shaking Intensity (HI County EQ 2018)
    - Road Blocks (HI County Lava 2018)

- Building Damage Estimates (HI County EQ 2018)
- Economic Loss Estimates (HI County EQ 2018)

Register here for a DisasterAWARE™ Account: https://emops.pdc.org/emops/public/registeruser.jsp

Hawaii Interagency Vog Information Dashboard

https://vog.ivhhn.org/

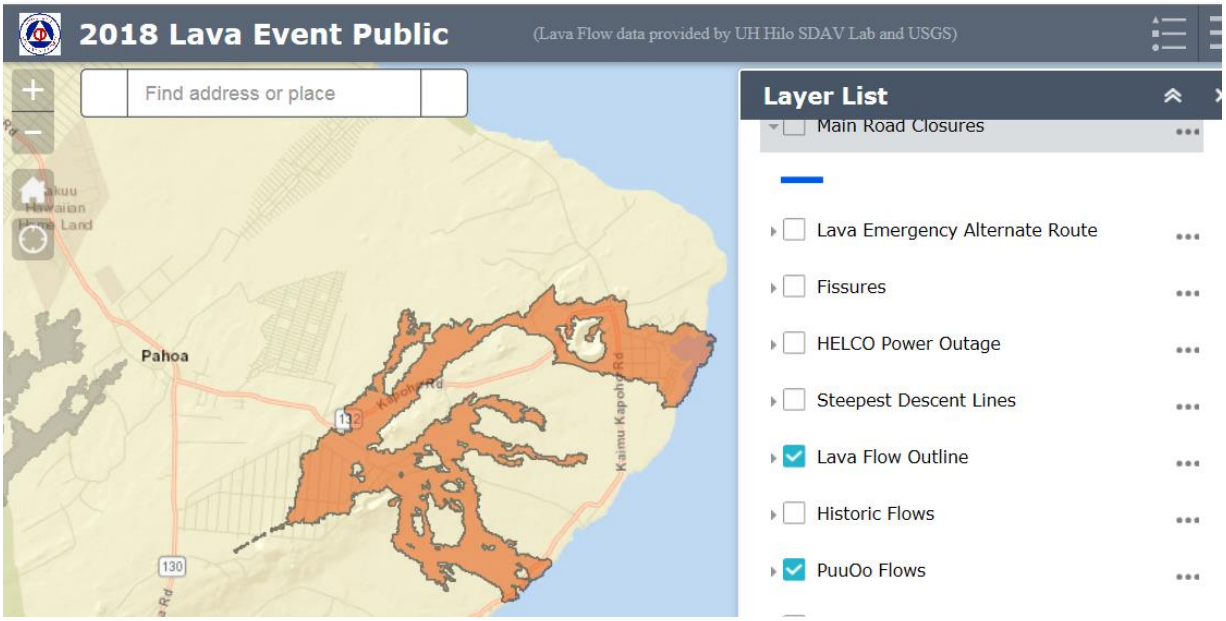


Hawaii County

http://www.hawaiicounty.gov/

Hawaii Civil Defense eruption map:

https://hawaiicountygis.maps.arcgis.com/apps/webappviewer/index.html?id=3428cd9282ff431c865eb32761793078



Hawaii Center for Volcanology

https://www.soest.hawaii.edu/GG/HCV/kilauea.html

ESRI Living Atlas of Digital Globe Imagery

Post event imagery from Digital Globe. Both Near Infrared and Natural Color.

http://www.arcgis.com/home/webmap/viewer.html?webmap=6c55717376ff4faaa18ea75e0388e4b2

MappingSupport.com (public site)

Google + GIS map displaying lava flow data from the USGS. User can turn on a parcel layer. Read the "Map tips" for more information.

https://mappingsupport.com/p/gmap4.php?usng=5Q_LB_0479_5439&z=13&t=t1,Latest_lava_extent,Latest_lava_expansion,PGV_property,Road_centerline,Steepest_descent_Line,Active_flow_channel,Active_fissure&coord=usng&g=https://mappingsupport.com/p/disaster/2018/hawaii/hawaii_kilauea_eruption.txt

NASA Mount Kilauea Eruption, Hawaii 2018

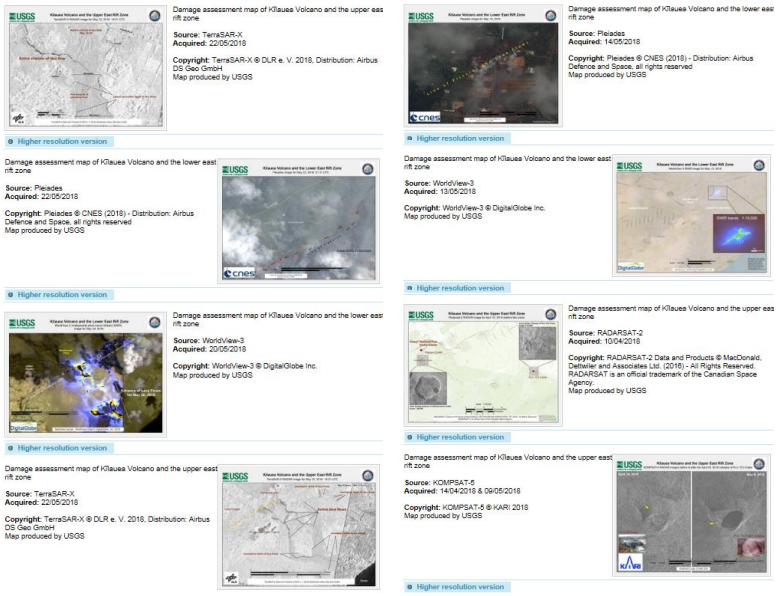
https://maps.disasters.nasa.gov/arcgis/home/group.html?id=bcc9f2a163d74c818bb388fd7a55d852

PurpleAir (Real Time Air Quality)

https://www.purpleair.com/map?&zoom=9&detailsshowing=2213&lat=19.79760758235925&lng=-154.9764858007198&clustersize=33&orderby=L&latr=1.7603274989321989&lngr=4.21875

International Charter for Space and Major Disasters

https://disasterscharter.org/web/guest/activations/-/article/volcano-in-united-states-activation-571-



Open Street Map

https://www.openstreetmap.org/search?query=hawaii#map=13/19.3593/-155.1358

RemotePixel Viewer (Landsat-8, Sentinel-2 and CBERS-4 data viewer powered by AWS Lambda)

https://viewer.remotepixel.ca/?gl_size=256&raster_size=256&format=jpeg&sceneid=S2A_tile_20180607_05QKB_0&pmin=2&pmax=98&rgb=12,8A,04#11.78/19.49804/-154.83004 ← this is set to 07June / Sentinel-2 / Shortwave Infrared

ESA Sentinel Imagery (Use Chrome or FireFox)

Sentinel data-playground- additional band combinations to choose from as compared to the eo-browser. (Viewer) The S2 May 23, June 2. 7, 12 images shows the flow.

https://apps.sentinel-hub.com/sentinel-playground/?source=S2&lat=19.49326428839256&lng=-154.89169119740836&zoom=13&preset=2_COLOR_INFRARED__VEGETATION_&layers=B01,B02,B03&maxcc=89&gain=1.0&gamma=1.0&time=2015-01-01%7C2018-06-07&atmFilter=&showDates=false

Pre-Event Imagery Download by County:

https://datagateway.nrcs.usda.gov/ ➔ Get Data => Hawaii ➔ Hawaii County ➔

Hexagon Pre-Even Imagery

Hexagon is offering access to existing imagery of the Big Island to the emergency community. Their 30 cm imagery was acquired from 12/23/2015 to 06/11/2016. Contact John Gerhard, CP
Vice President / Program Director | Government Solutions; D: 720.279.3762 | M: 303.503.6174 john.gerhard@woolpert.com

Send comments, additions, and corrections to:
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If you would like to be on the distribution list, send me an email.