

201805_Volcano_Kilauea_HI Data Sources

Geospatial Information and Remotely Sensed Imagery Products

July 5, 2018

Hazards Data Distribution System (HDDS)

<http://hddsexplorer.usgs.gov/>

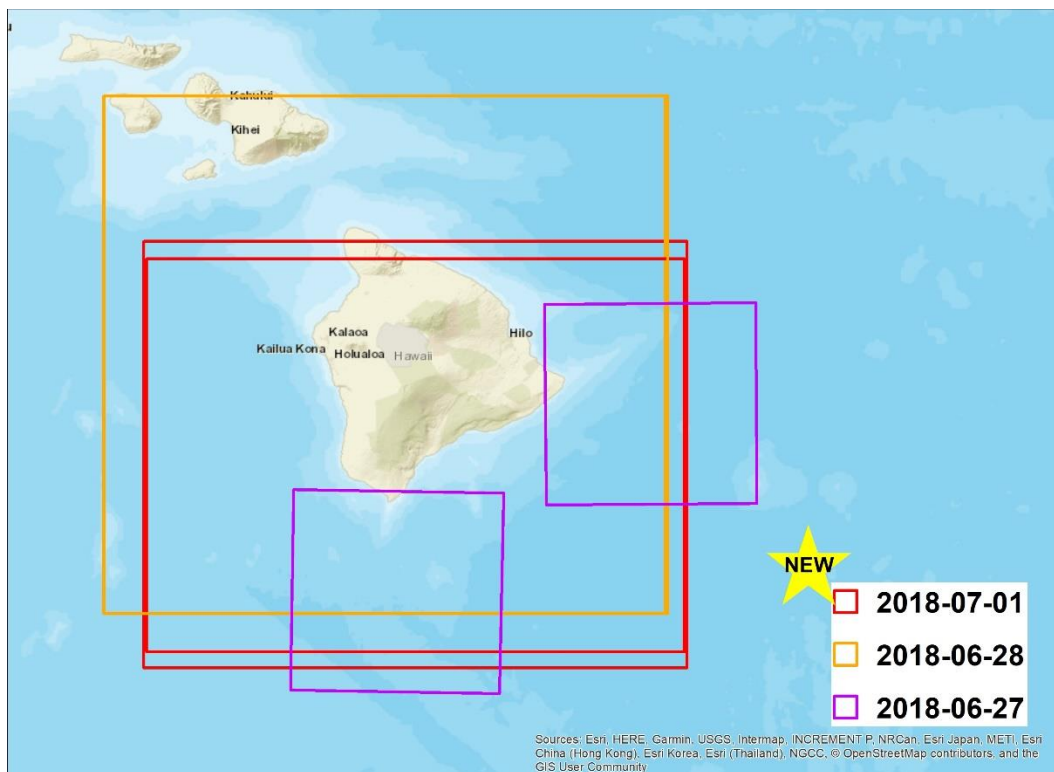
Select Event: “**201805_Volcano_Kilauea**” → click on “+” and then “Search”

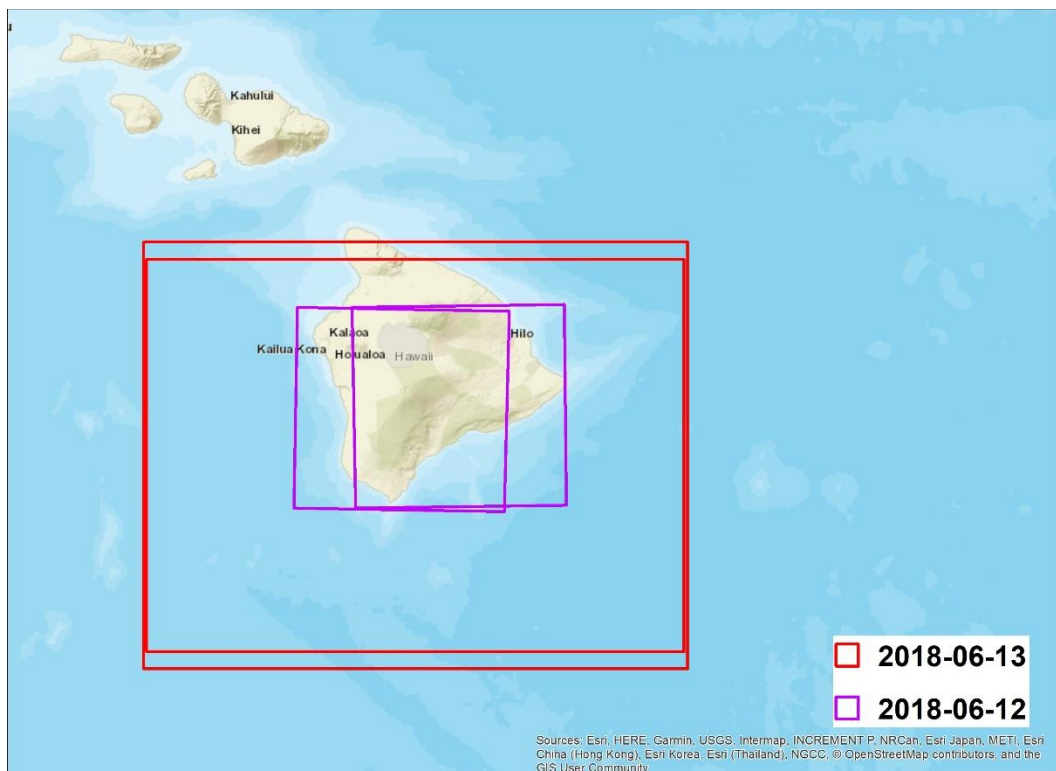
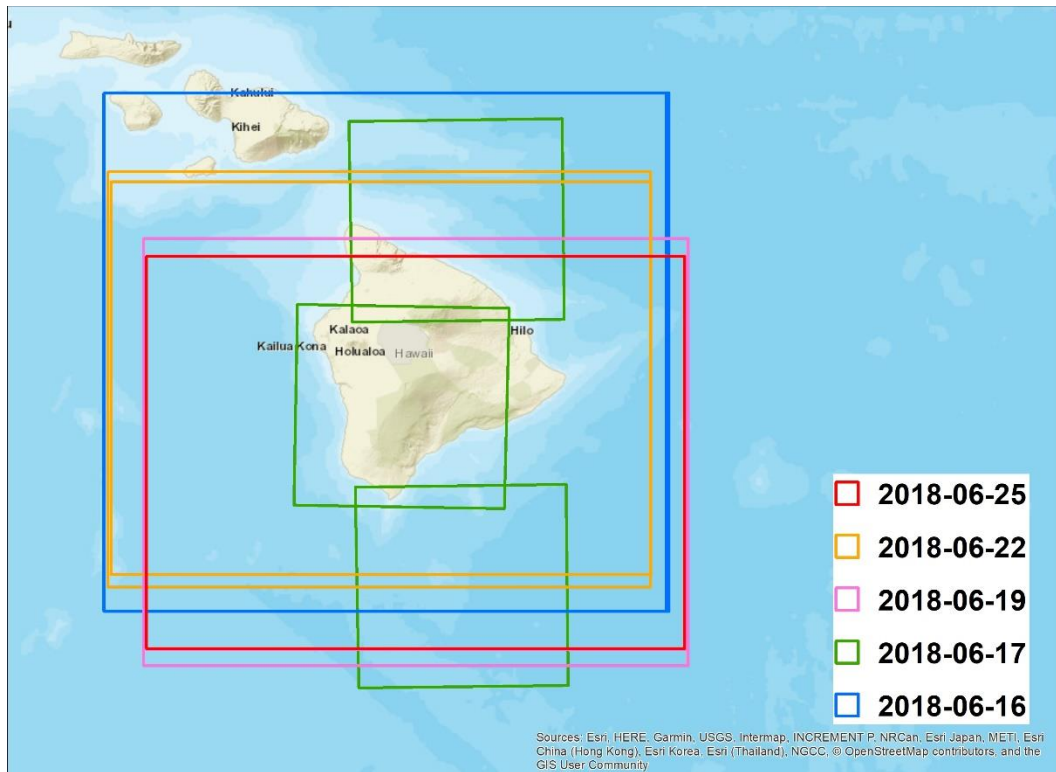
Download Shapefiles for image footprints

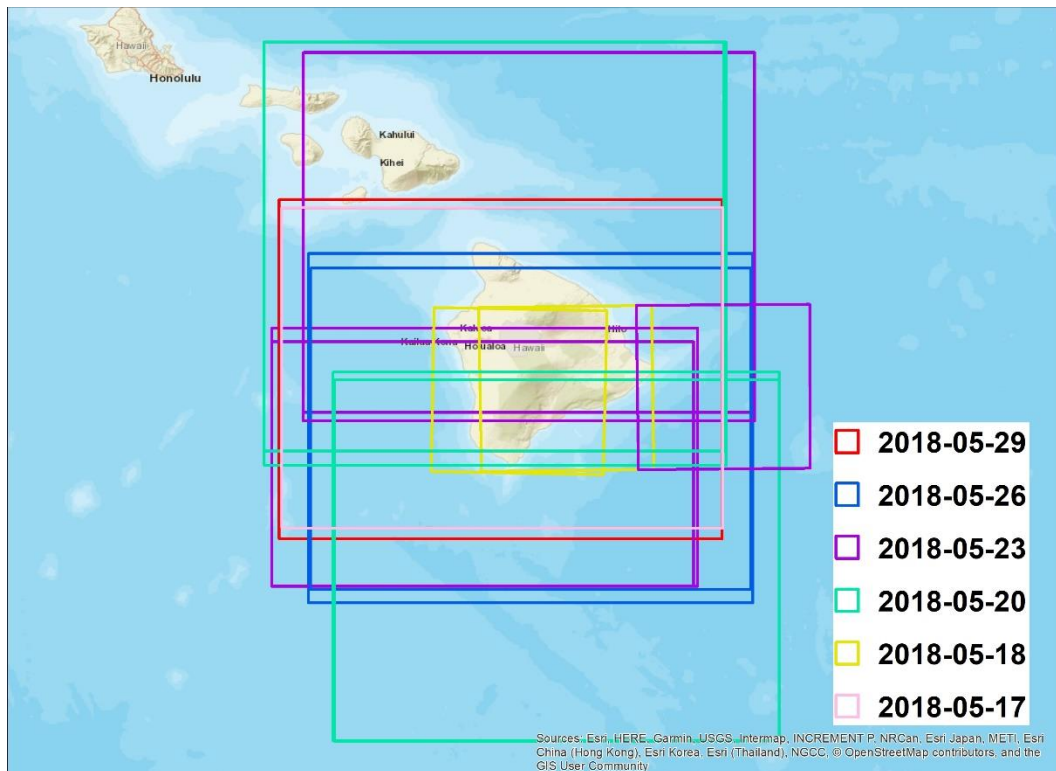
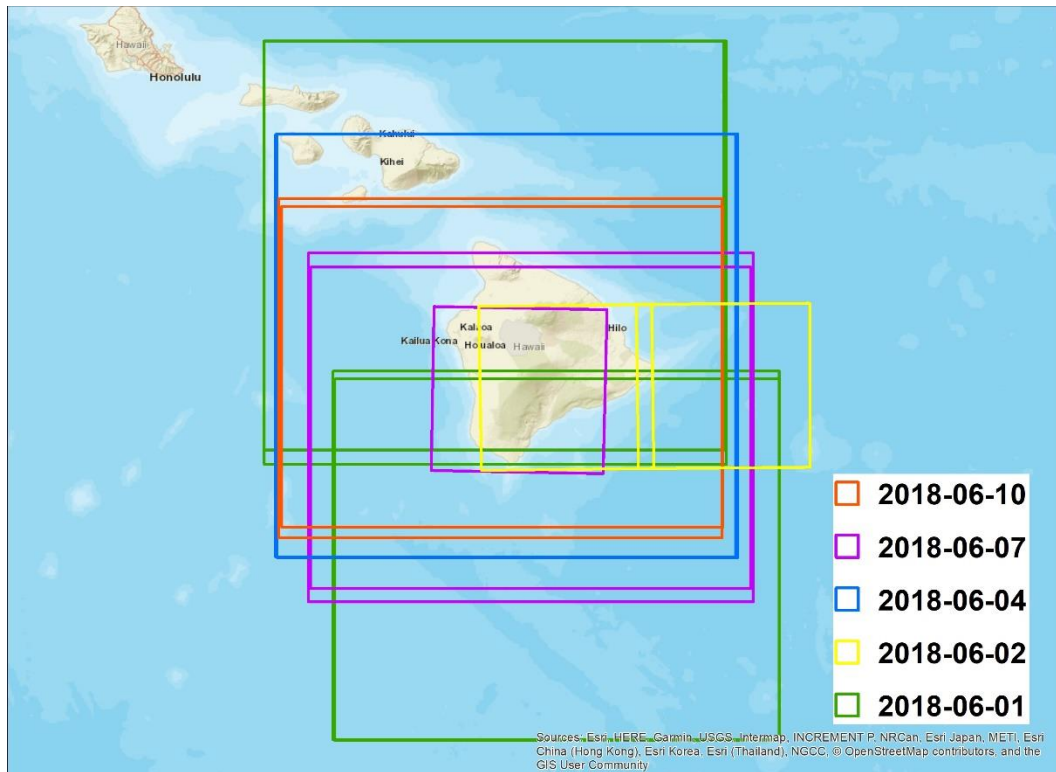
https://hddsexplorer.usgs.gov/data/list/disaster/201805_Volcano_Kilauea_HI/shapefiles/index

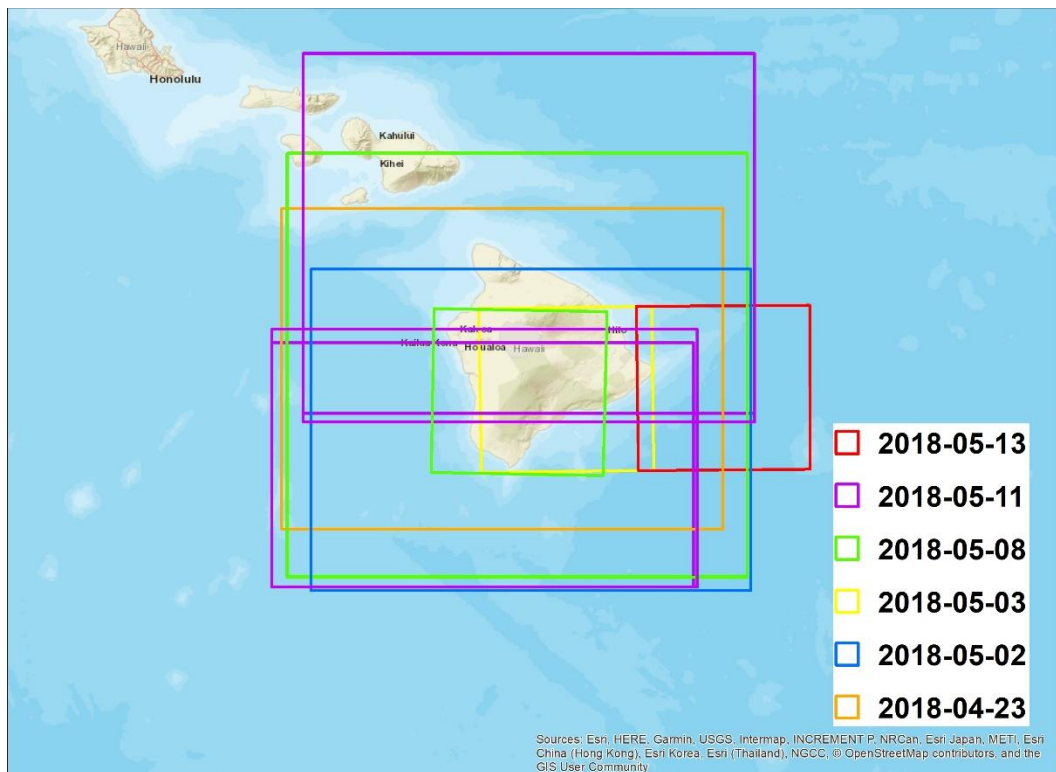
More information about HDDS: <http://hdds.usgs.gov/hazards-data-distribution-system-hdds>

Sentinel 1

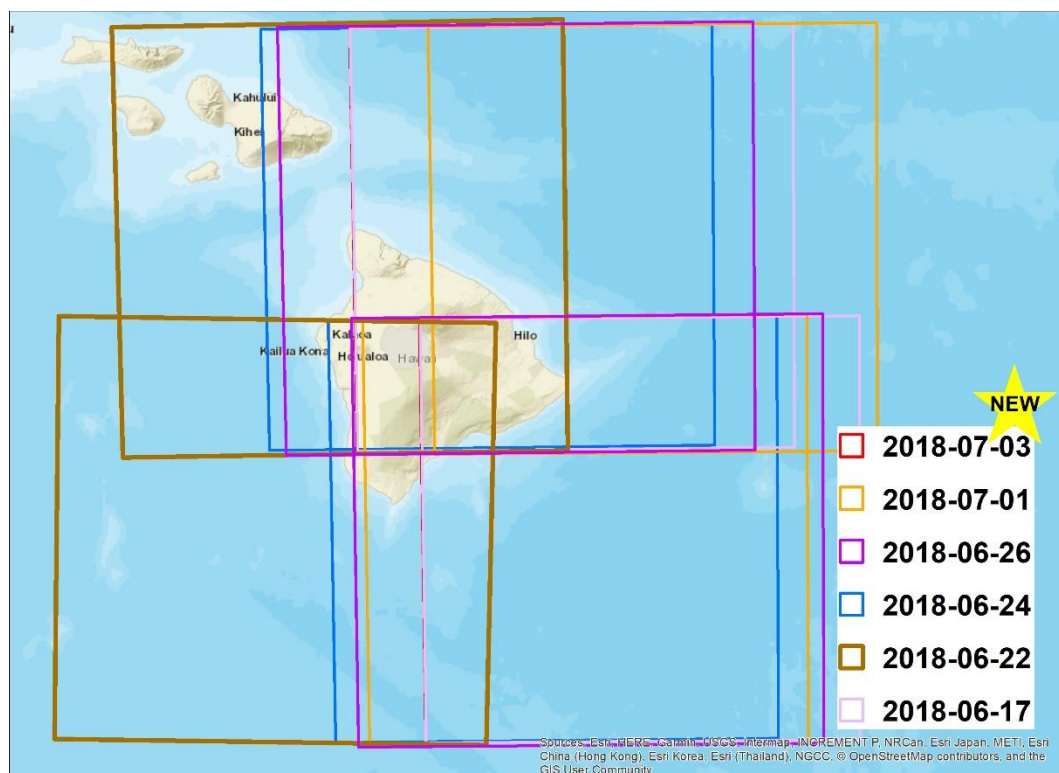


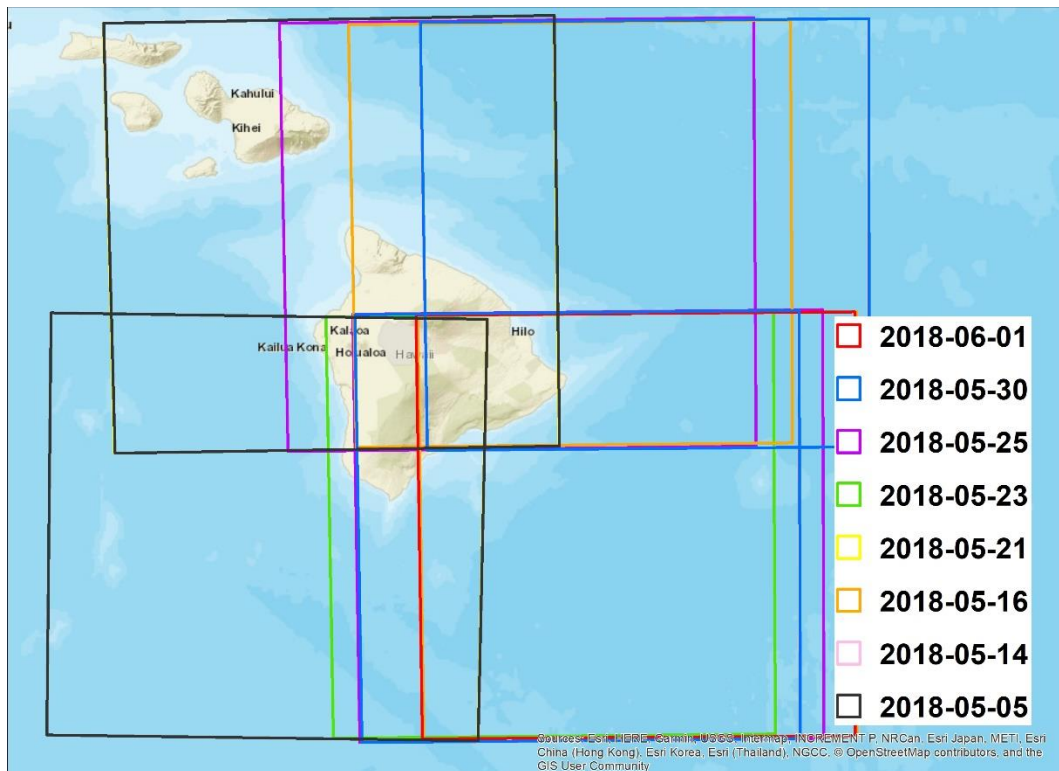
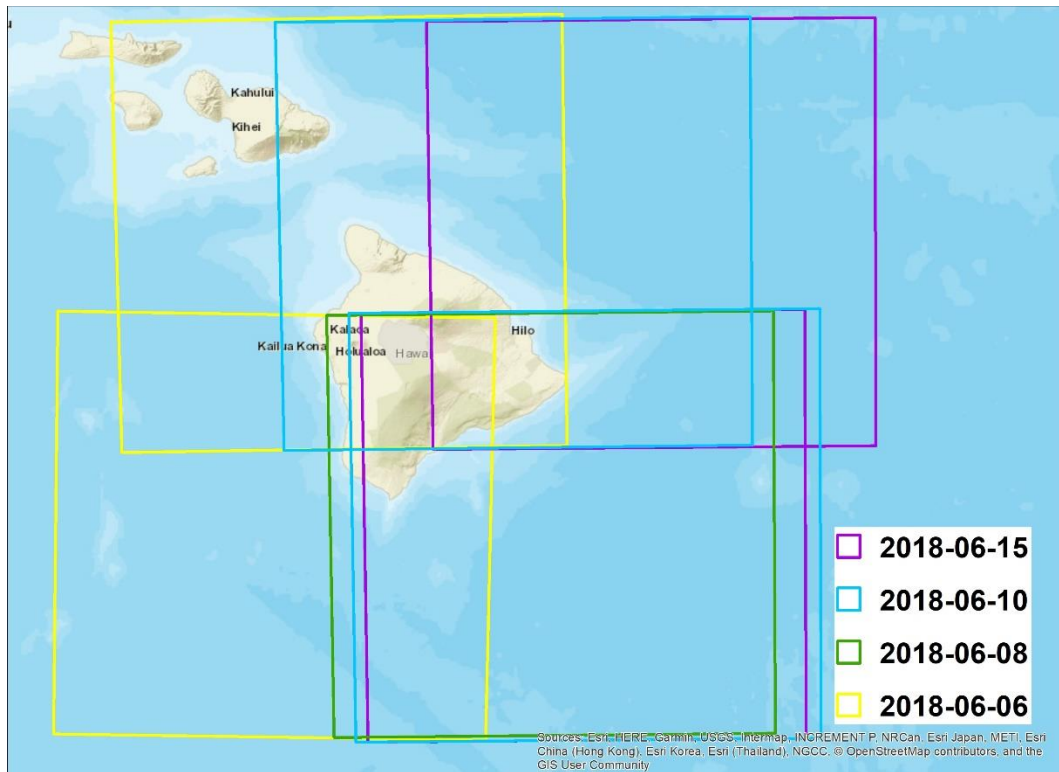




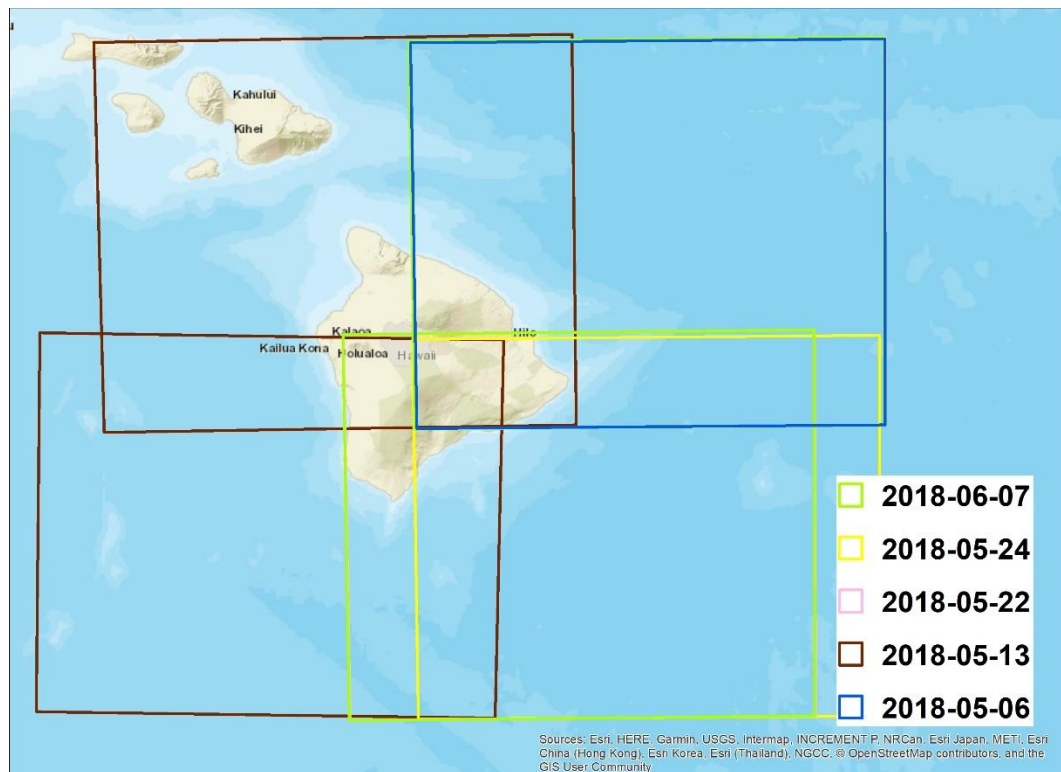
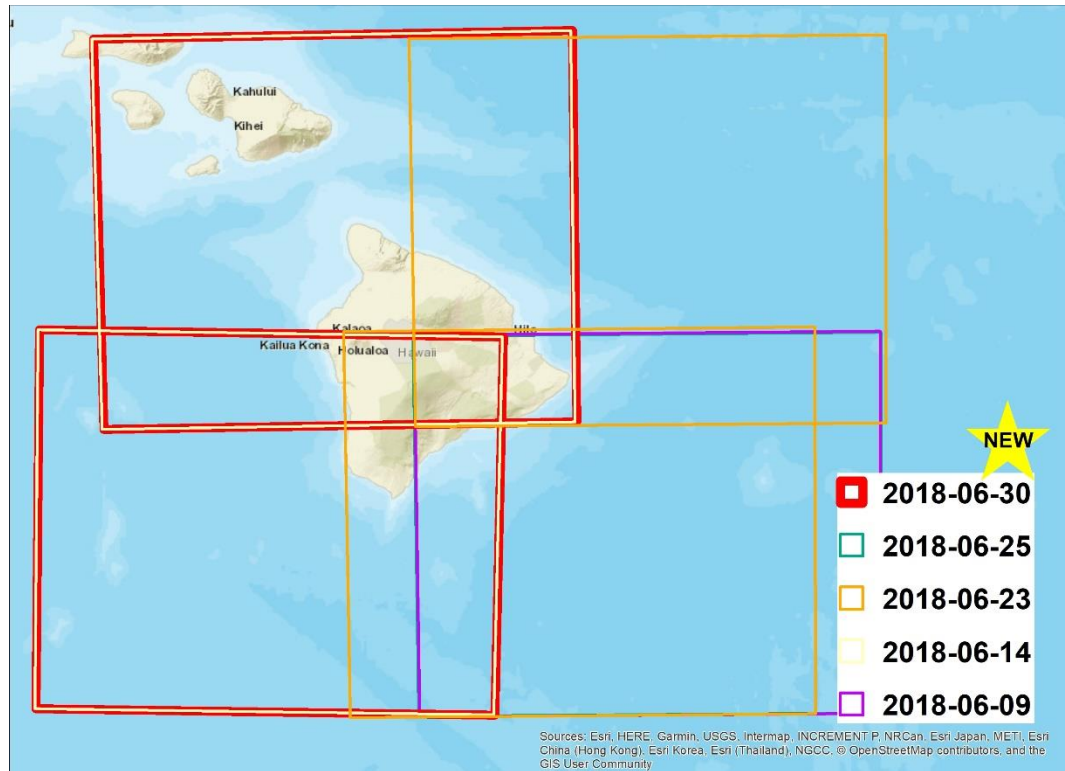


Landsat 8

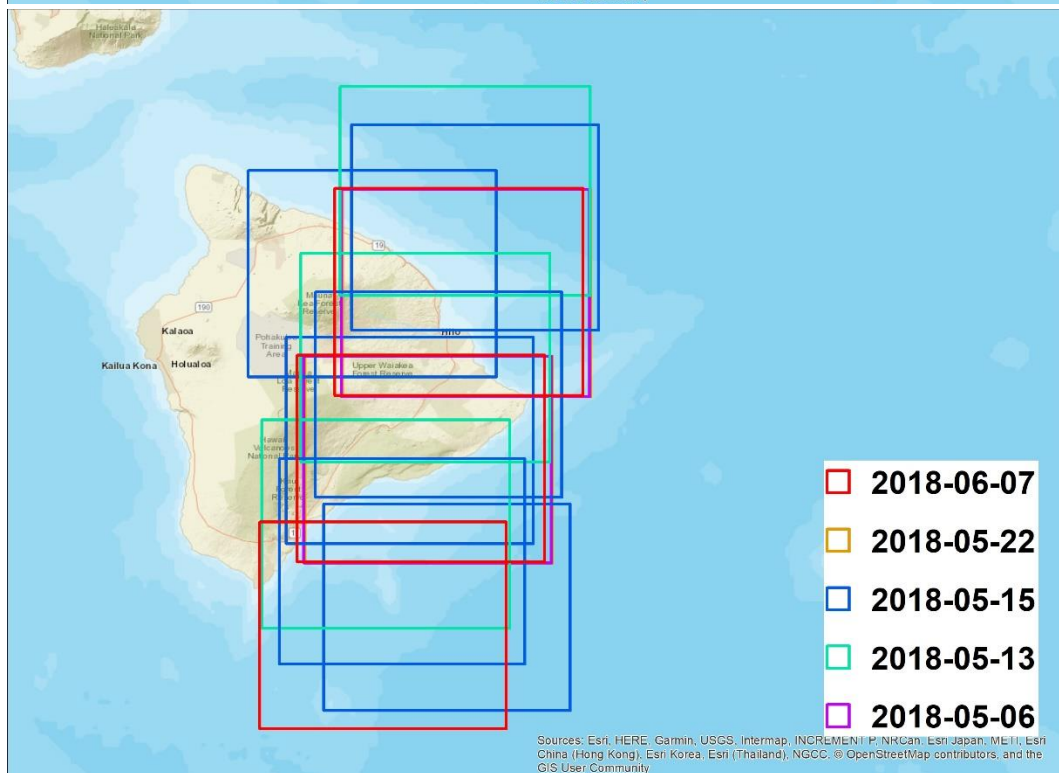
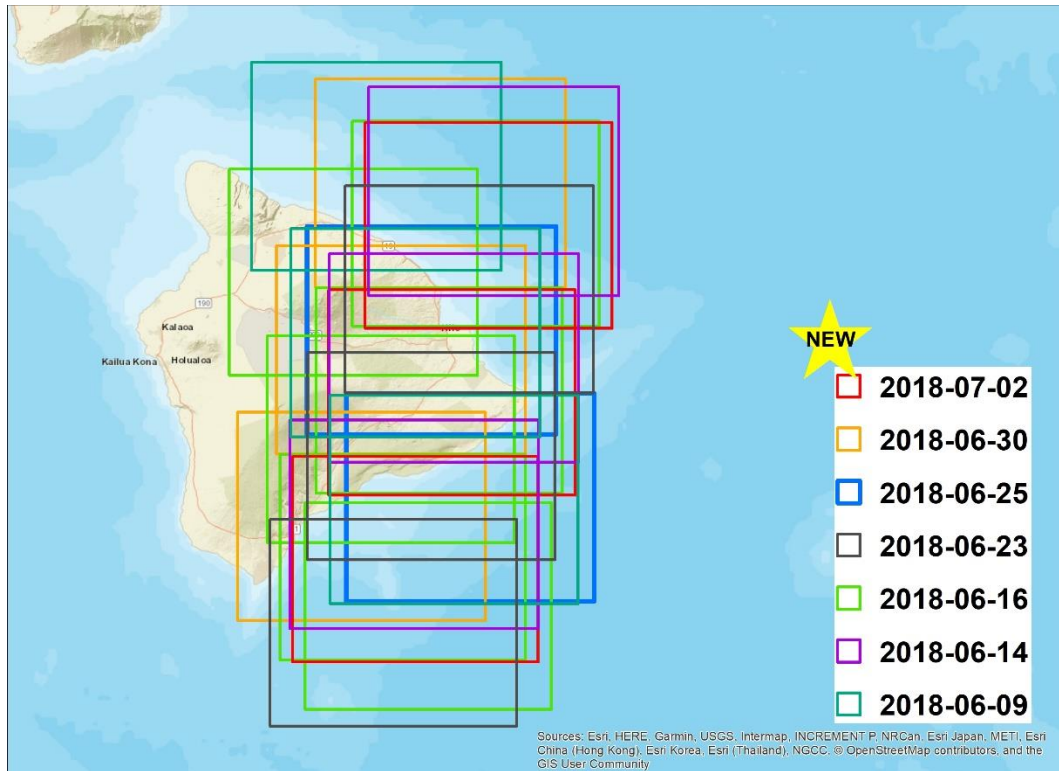


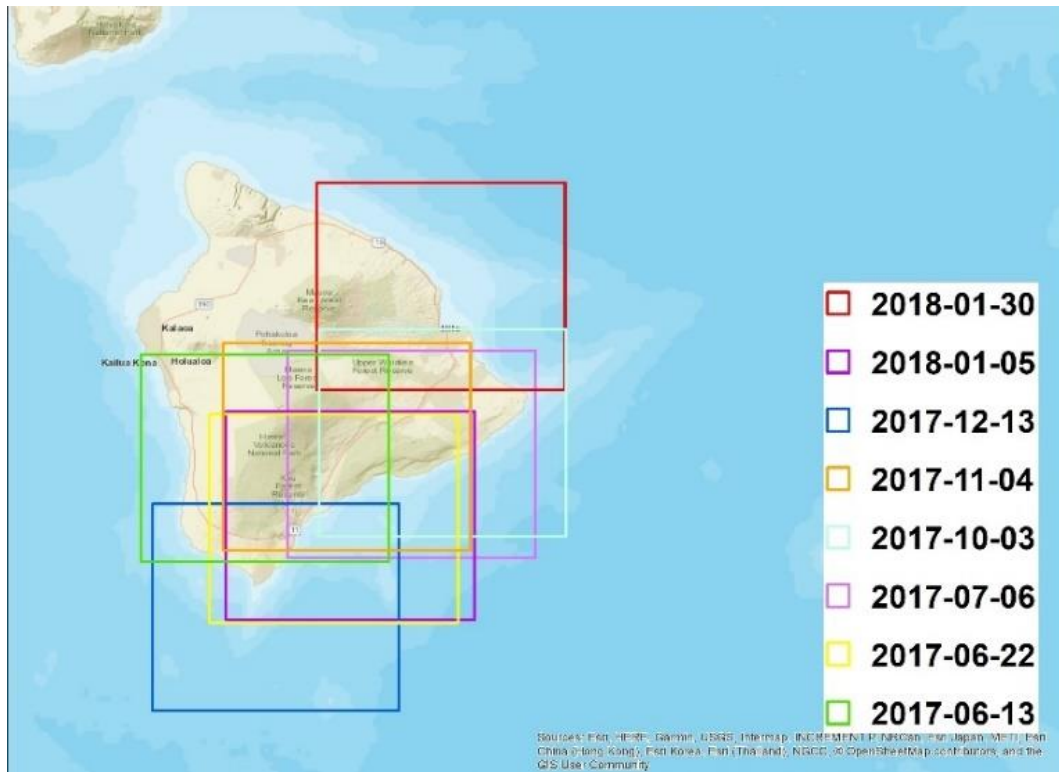


Landsat 7

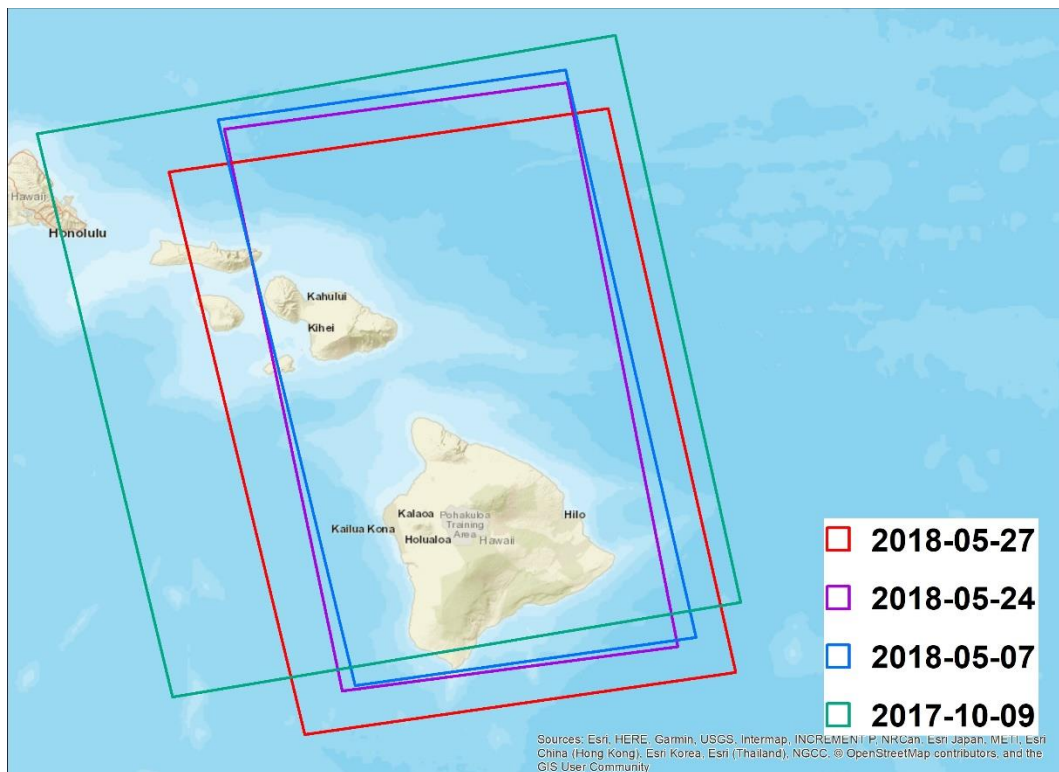


ASTER

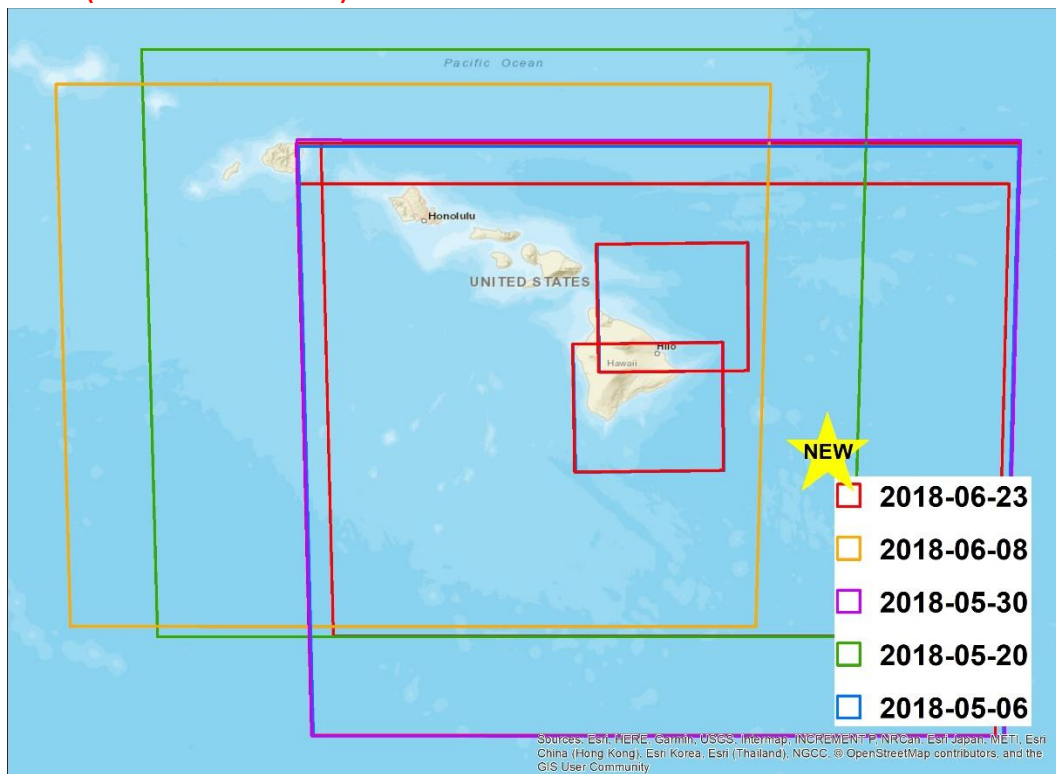




DMC



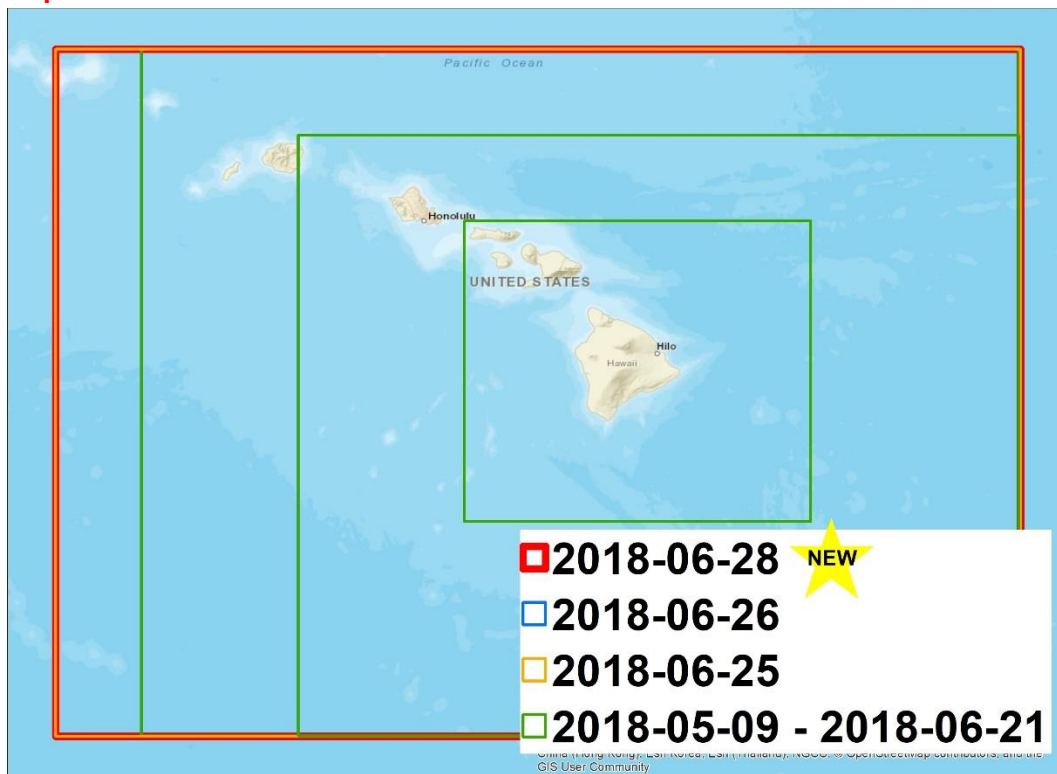
ISRO (AWiFS and LISS-3)



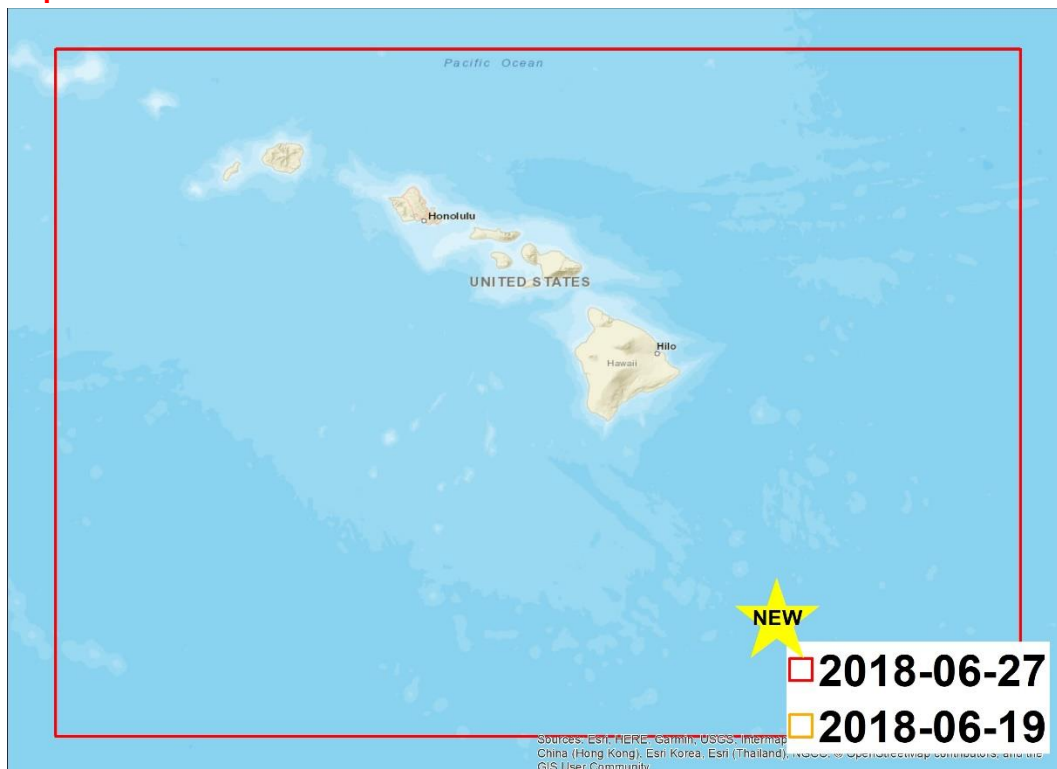
International Space Station



Reports USDA

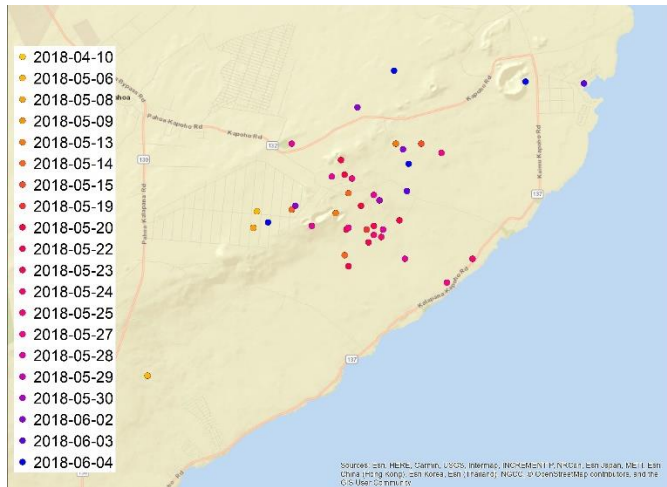


Reports NOAA

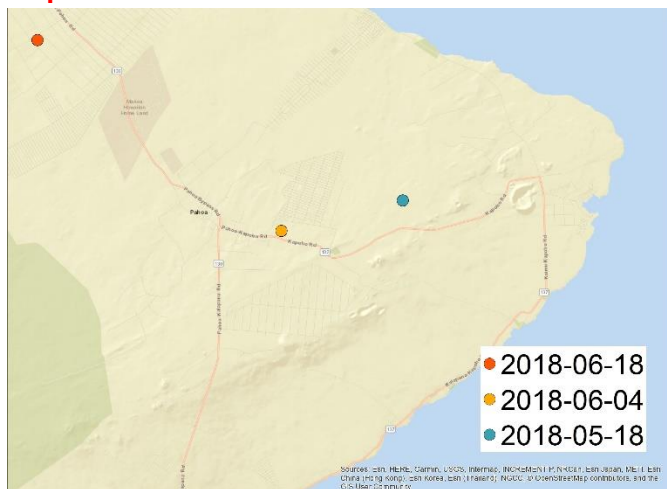


Map Products USGS Points

https://hddsexplorer.usgs.gov/data/list/disaster/201805_Volcano_Kilauea_HI/data/MAP_PRODUC
[TS USGS](#)



Map Products USGS WGS84



HDDS Restricted

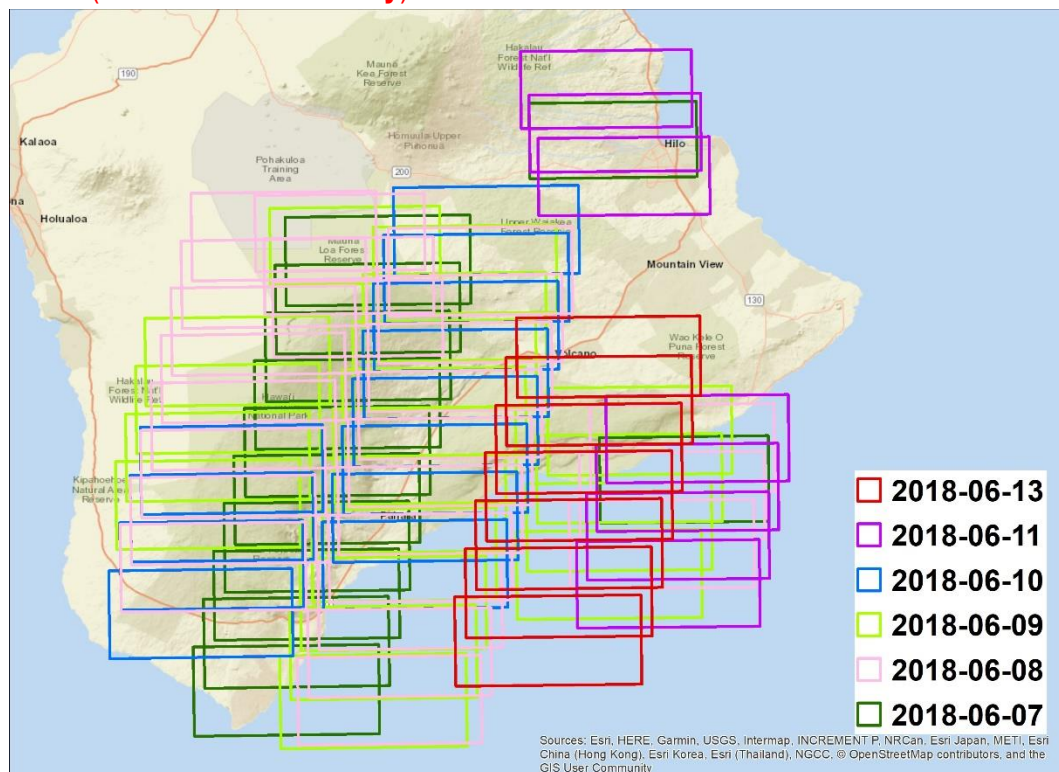
Self-Register for HDDS Restricted. <http://hddsexplorer.usgs.gov/>

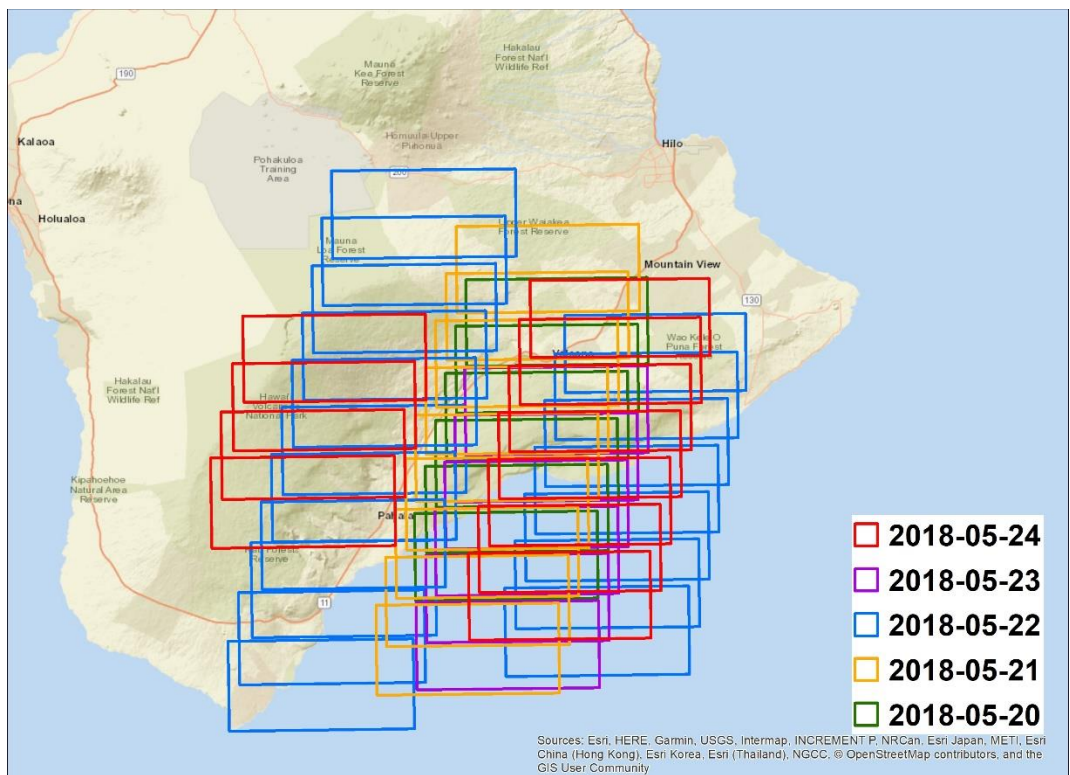
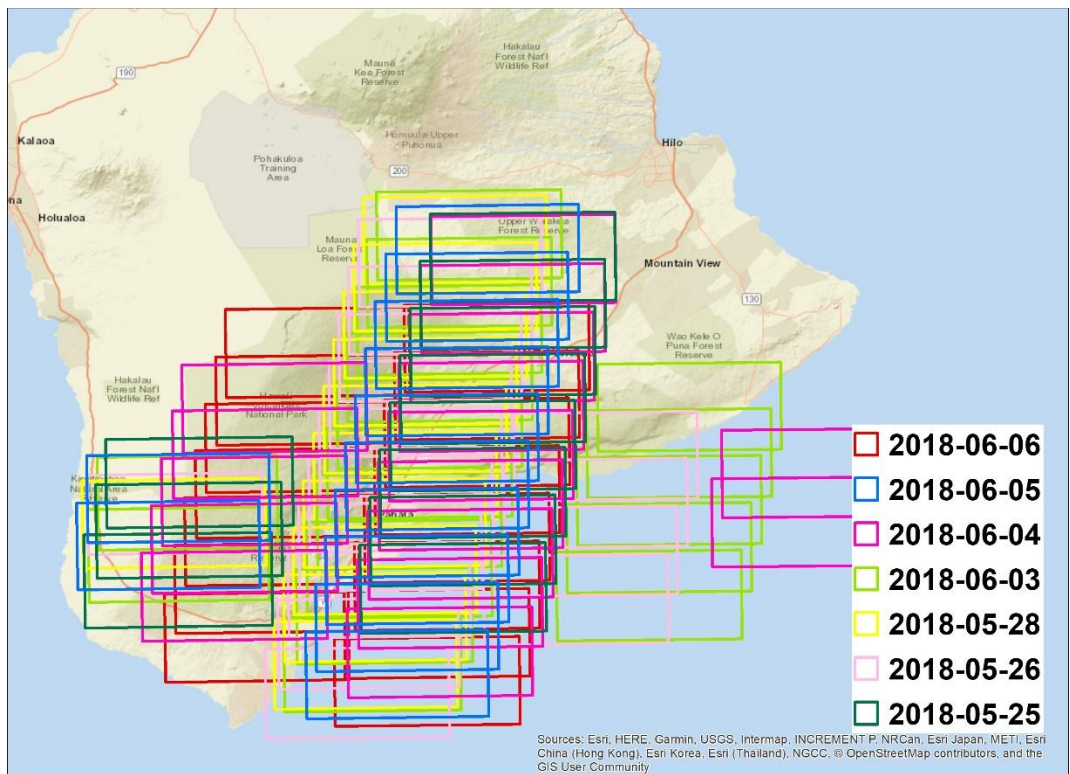
If you have not registered on either EarthExplorer or HDDS, click the register button in the top right corner of the screen and go thru the registration process. Once registered, you will have access to EarthExplorer and HDDS download capabilities. The first time you attempt to download restricted imagery, 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.)

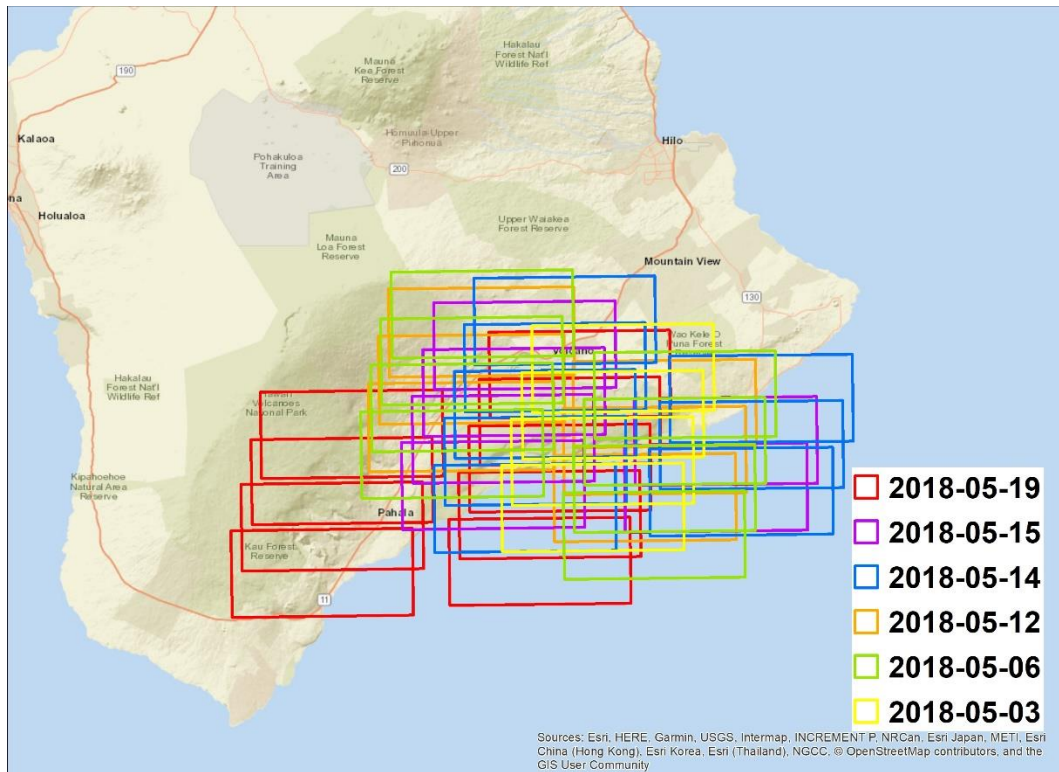
Request access:

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

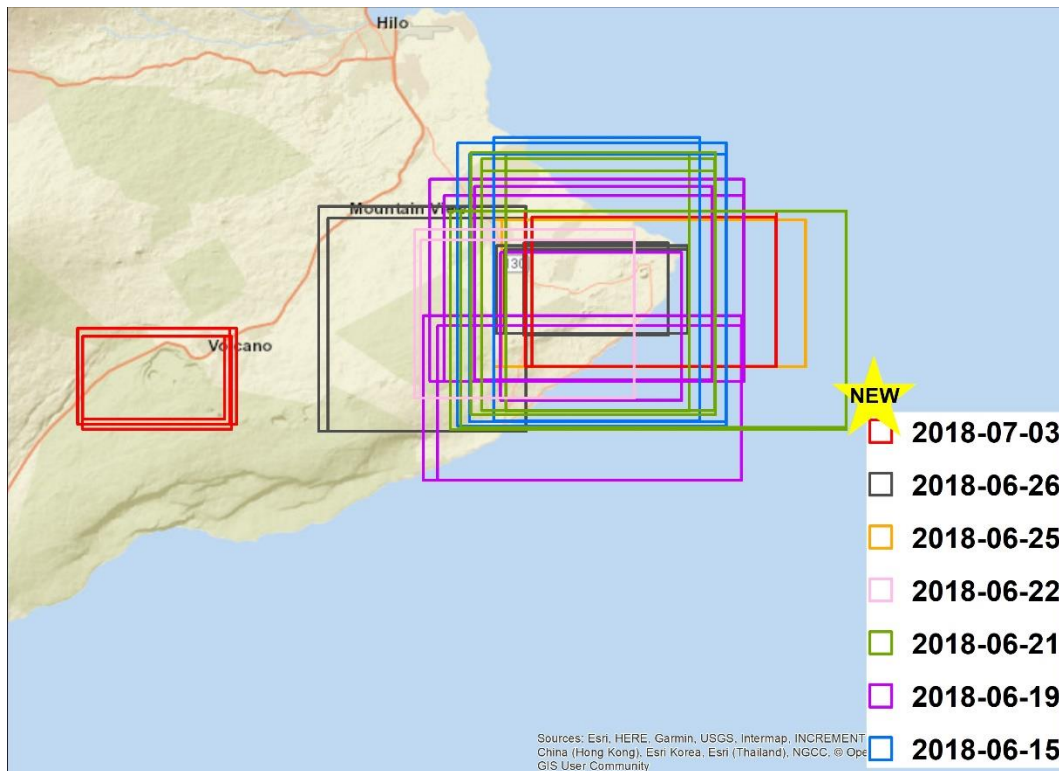
Planet (Licensed to USGS only)

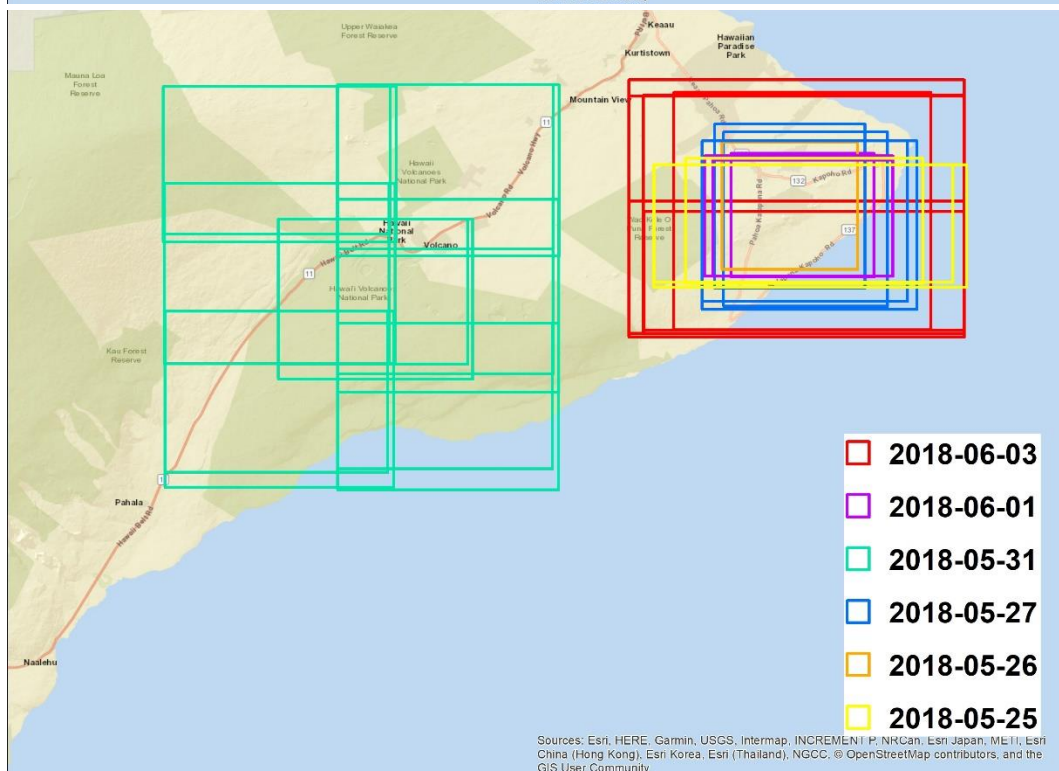
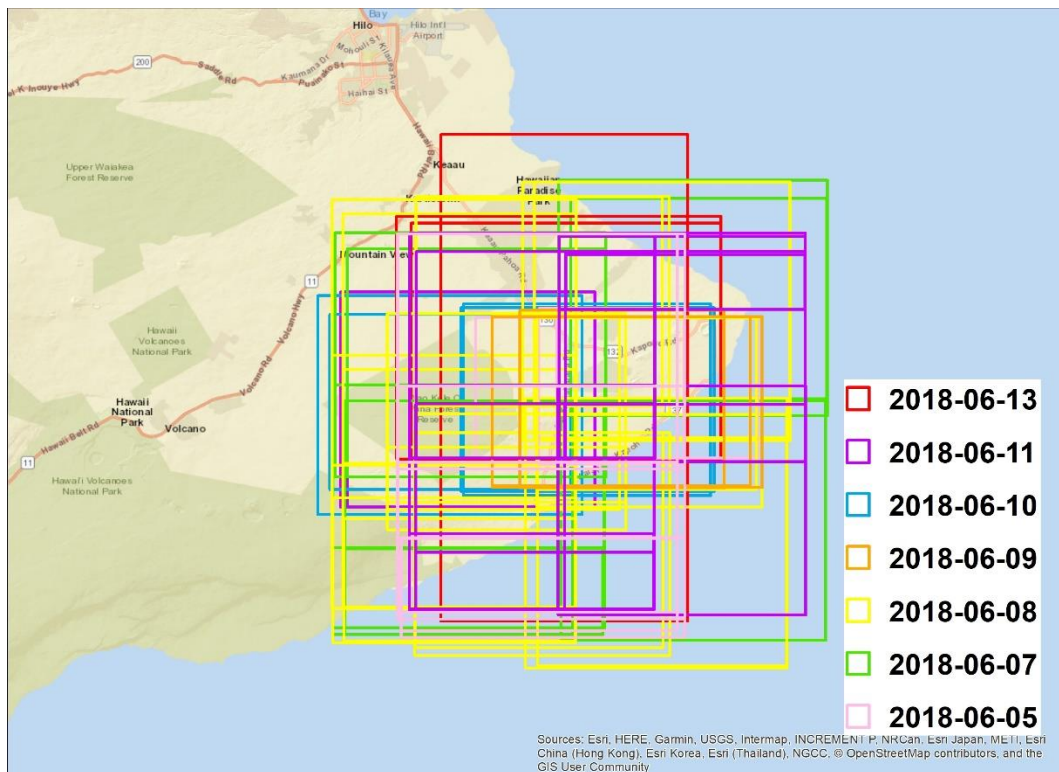


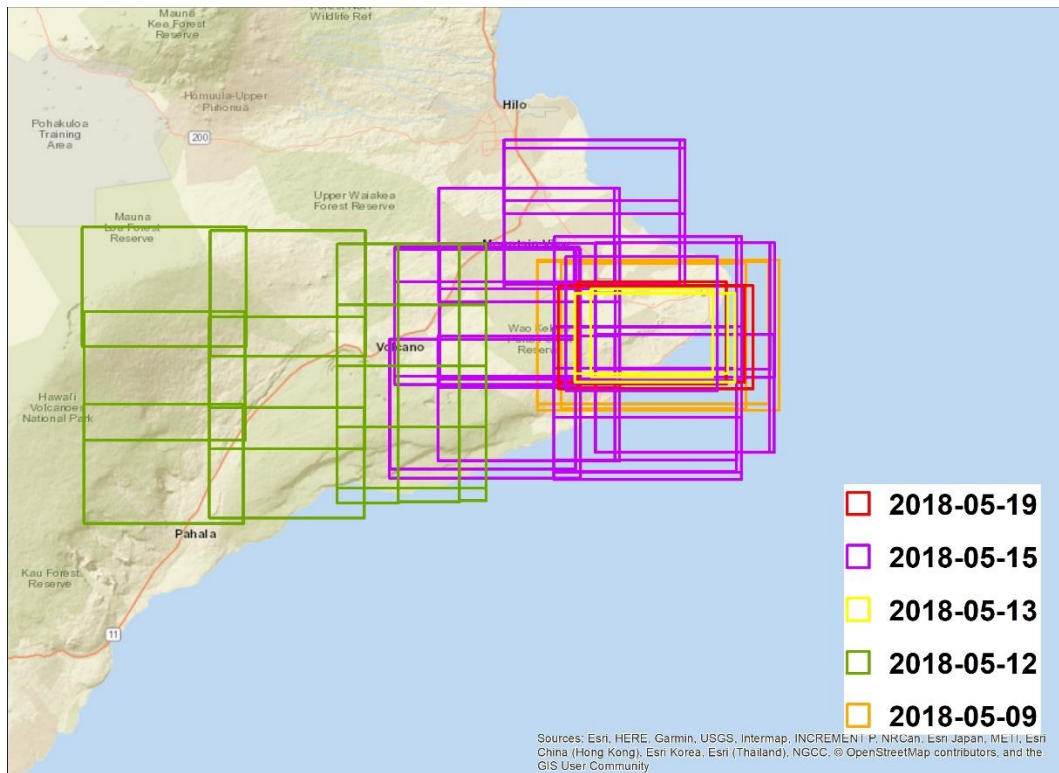
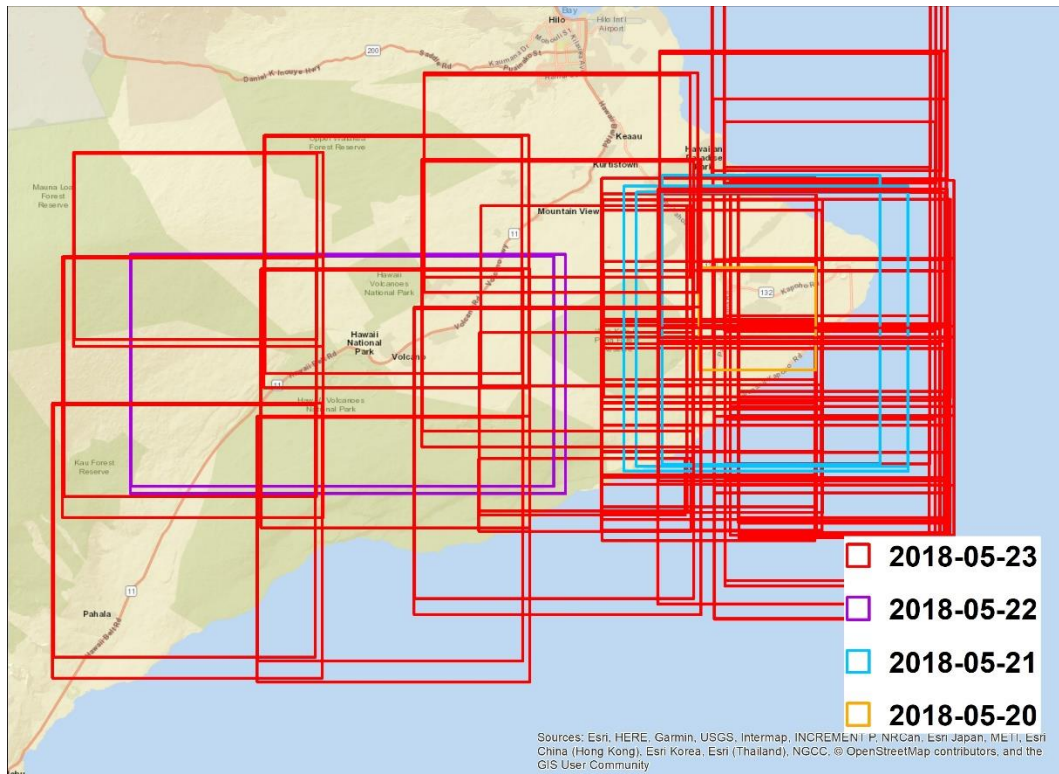


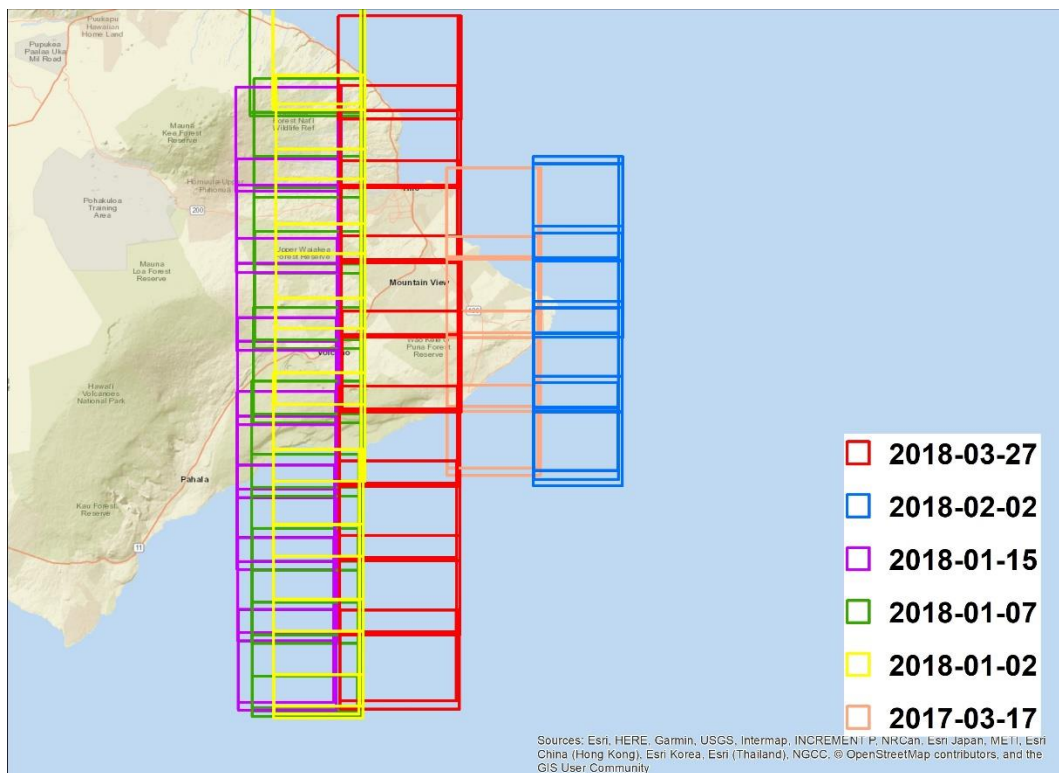
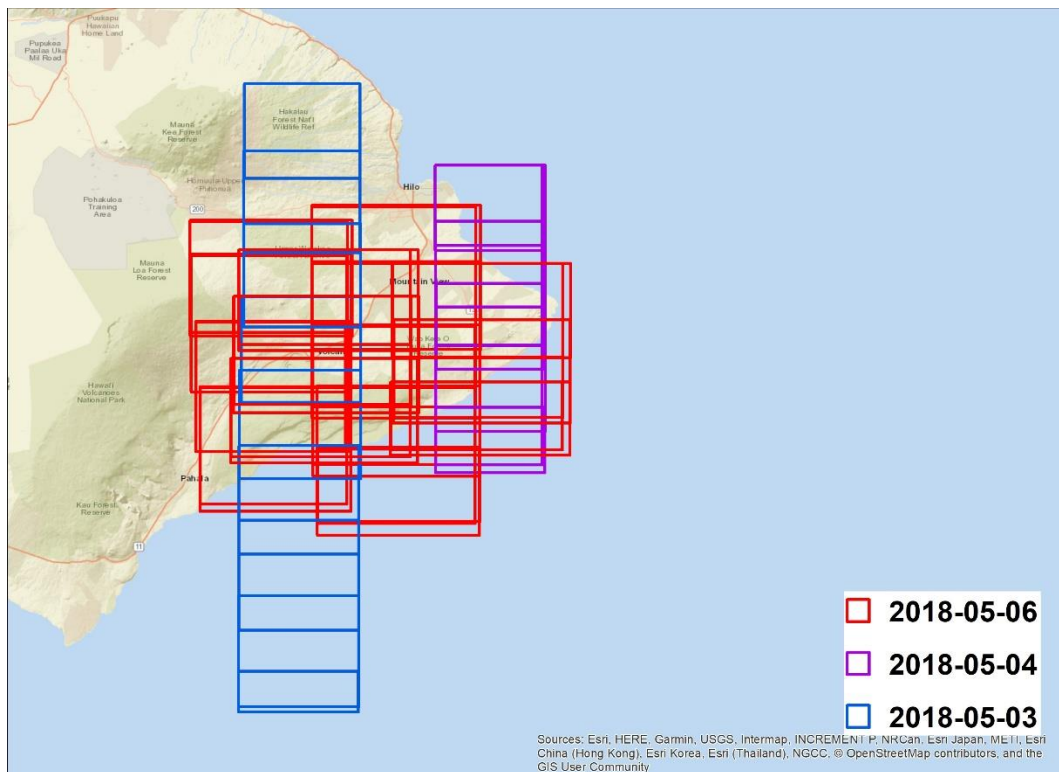


WorldView

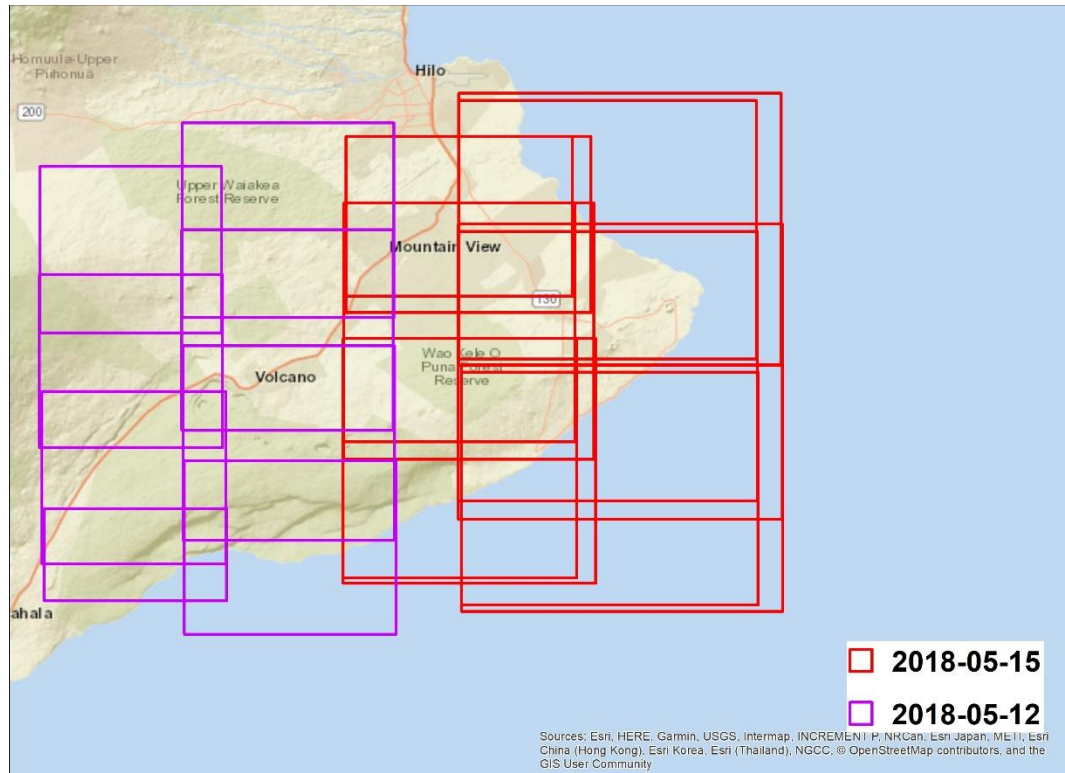




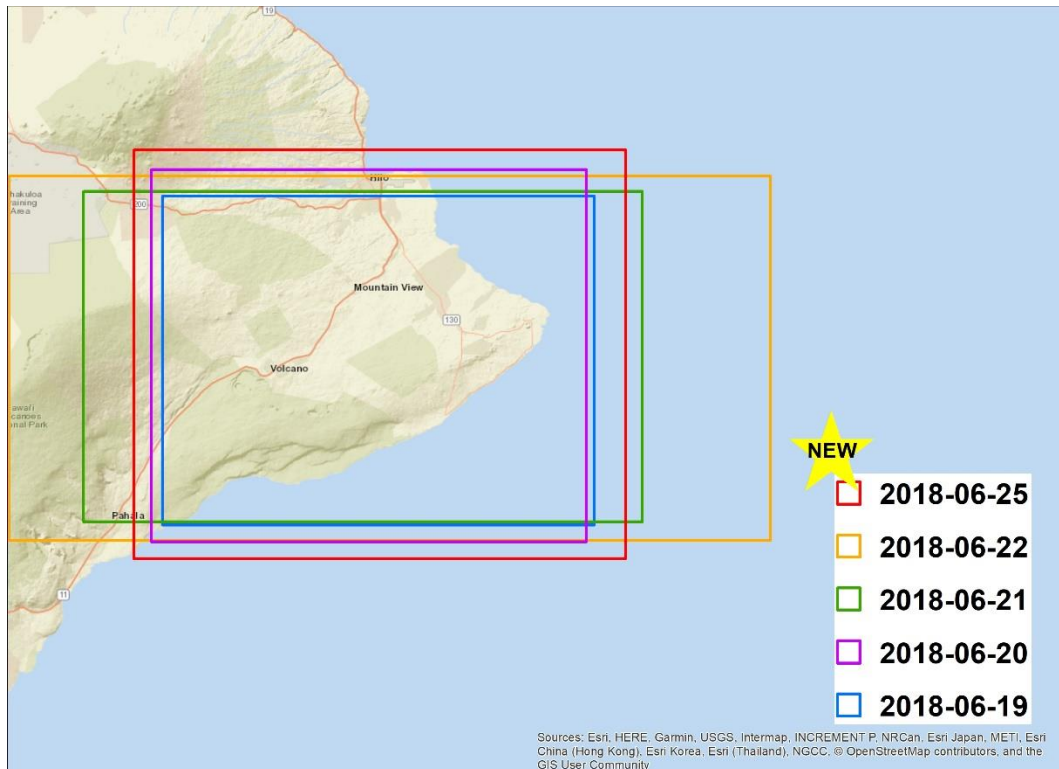


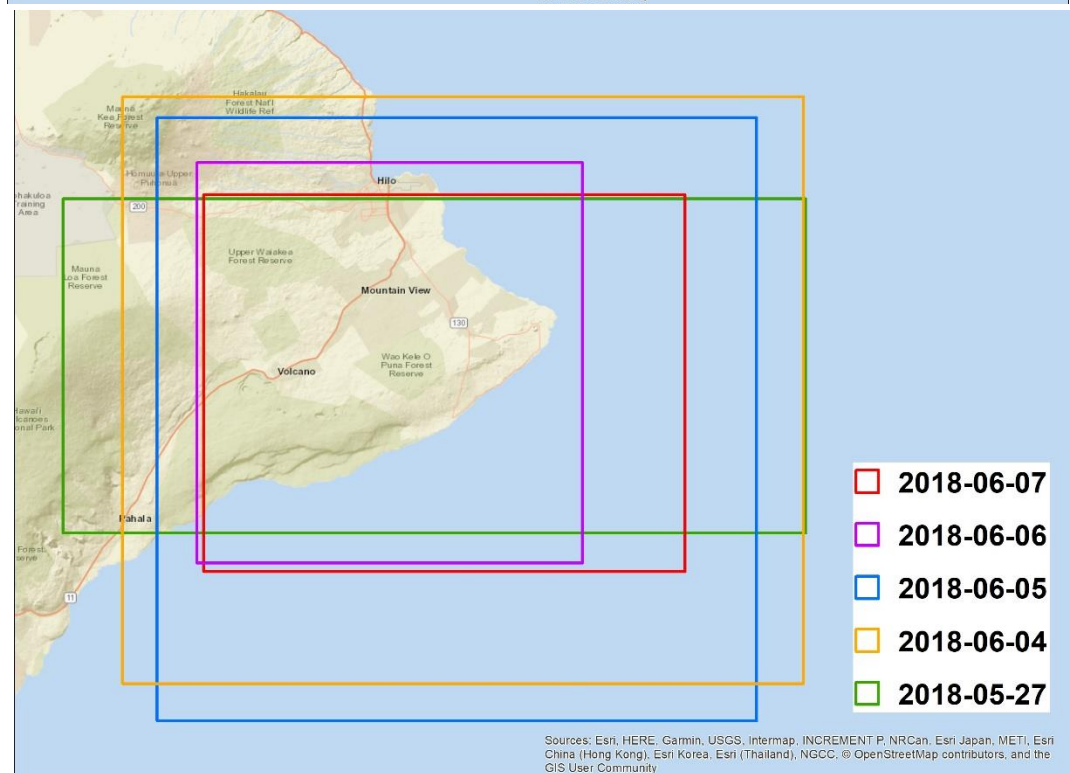
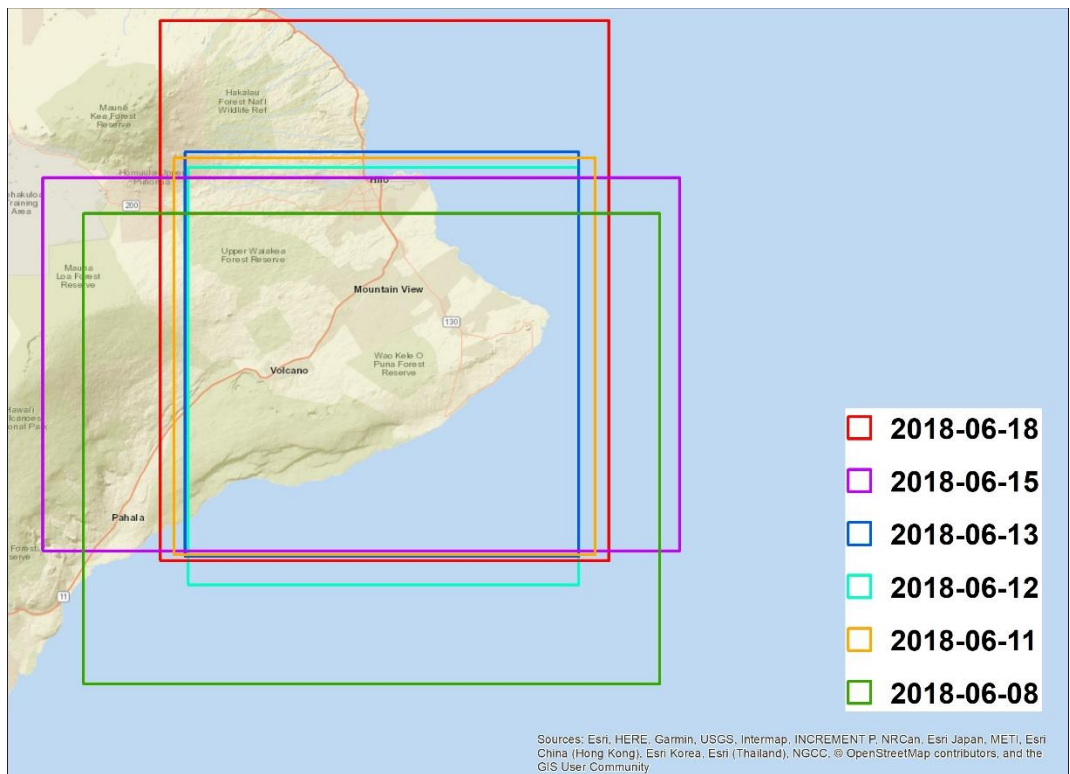


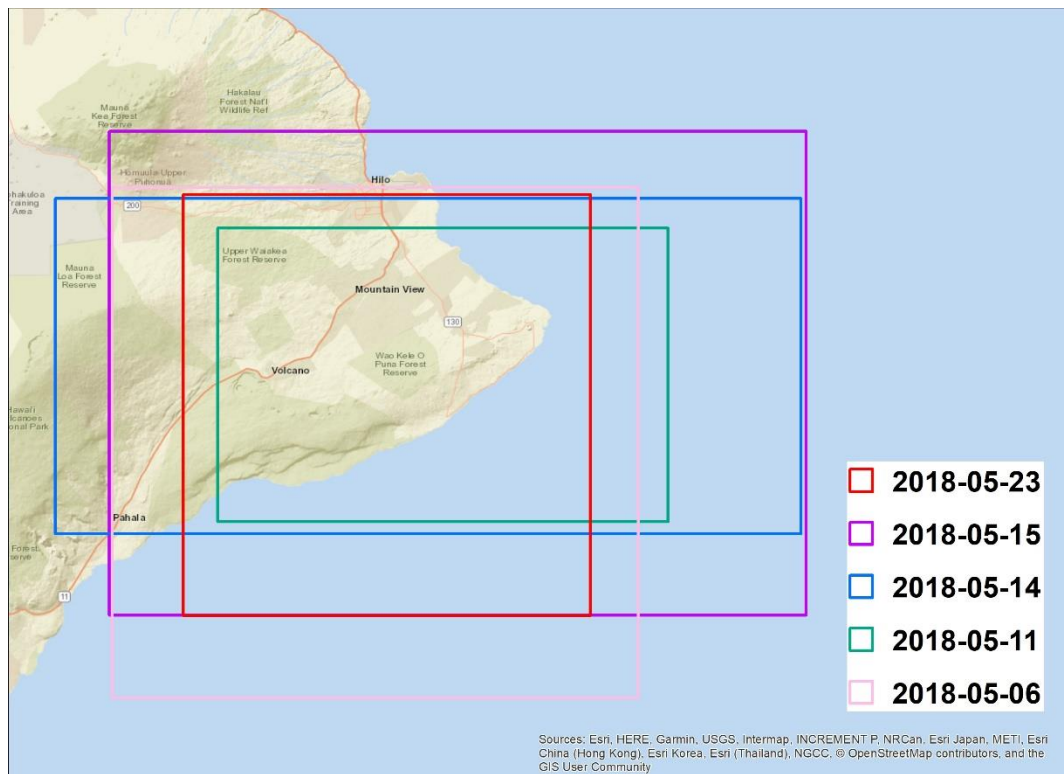
GEOEYE



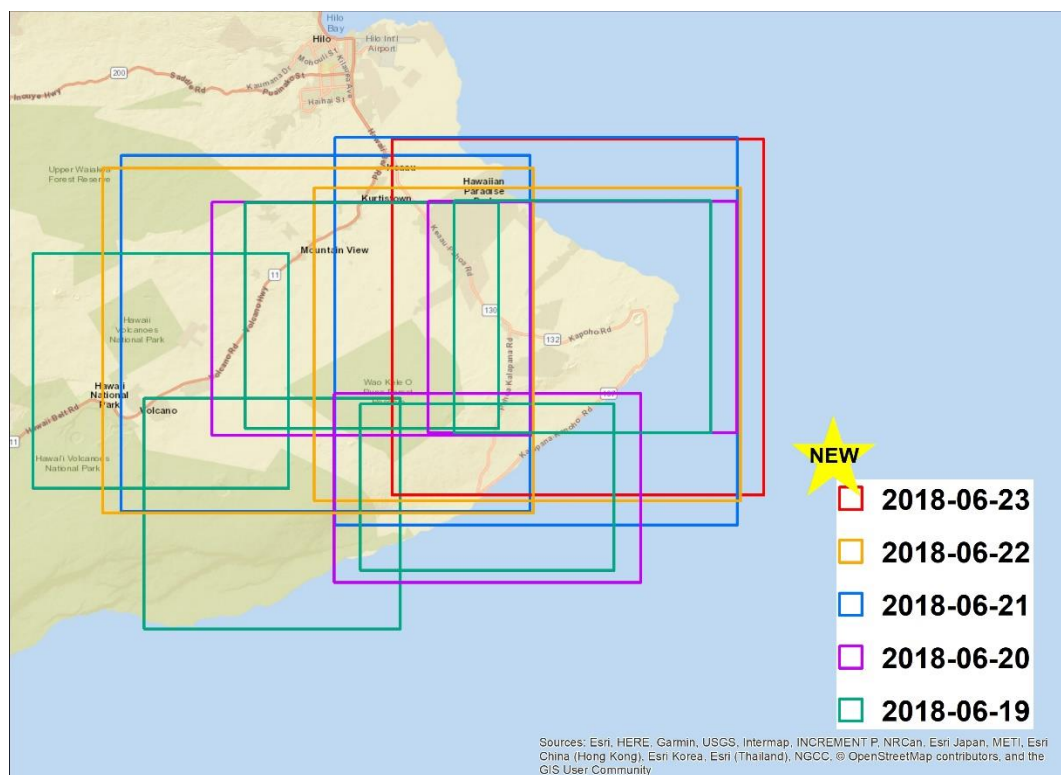
SPOT

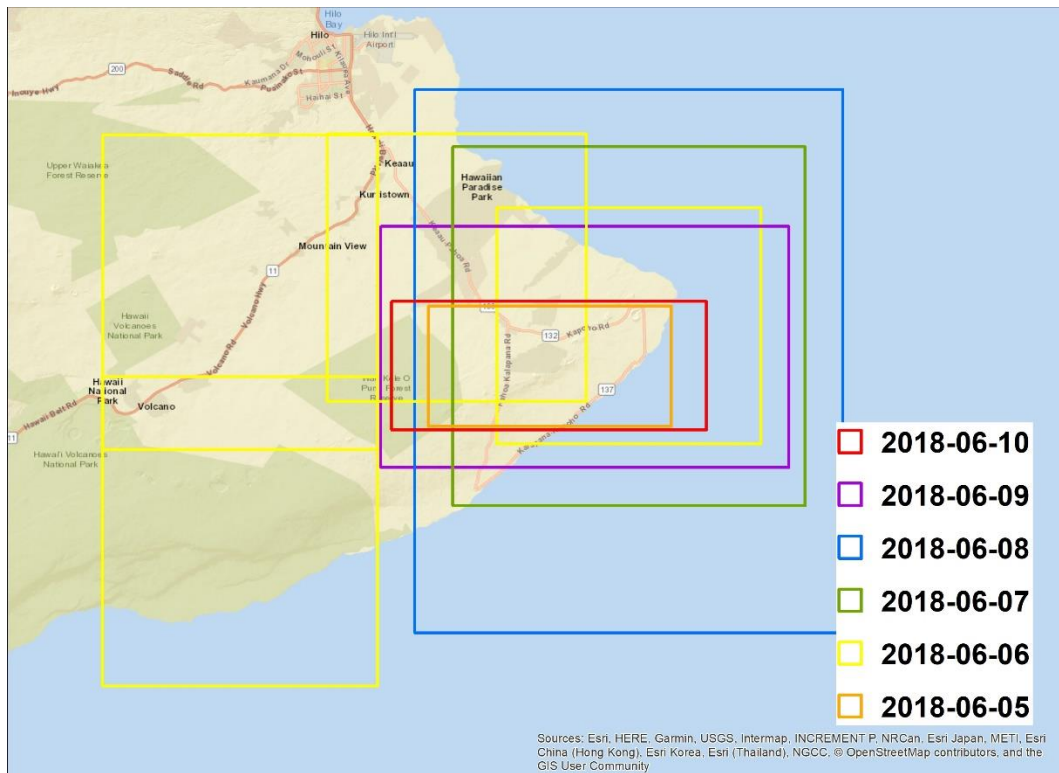
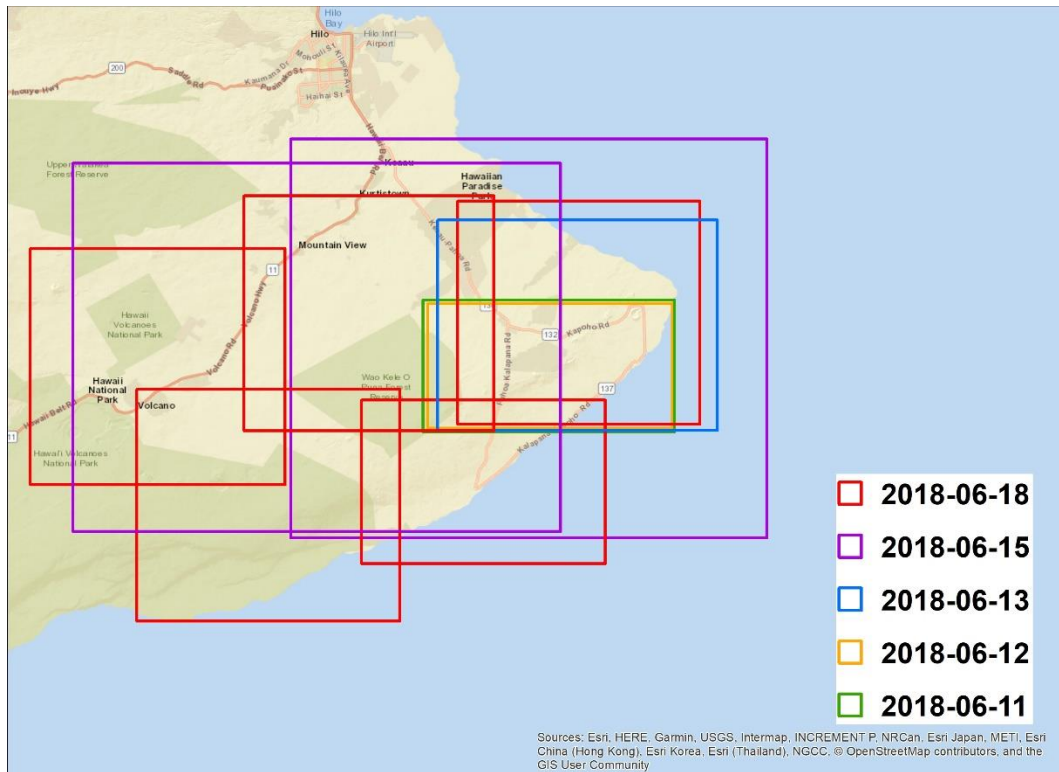


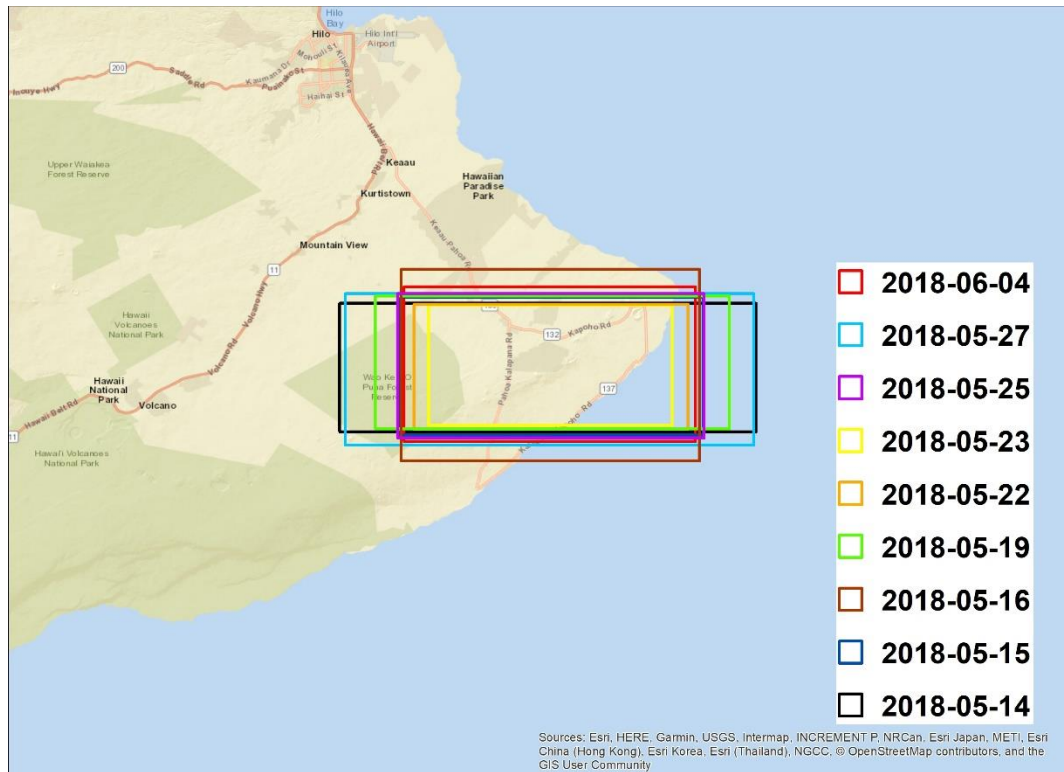




Pleiades

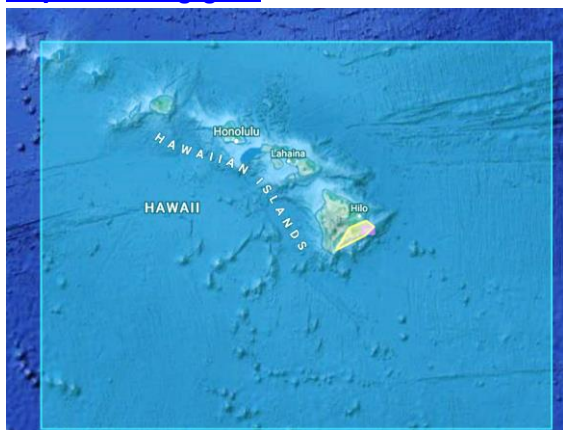






HDDS Emergency Operations – Collection Management Tool (area of interest for disaster imagery collections) **Request new disaster related imagery here.**

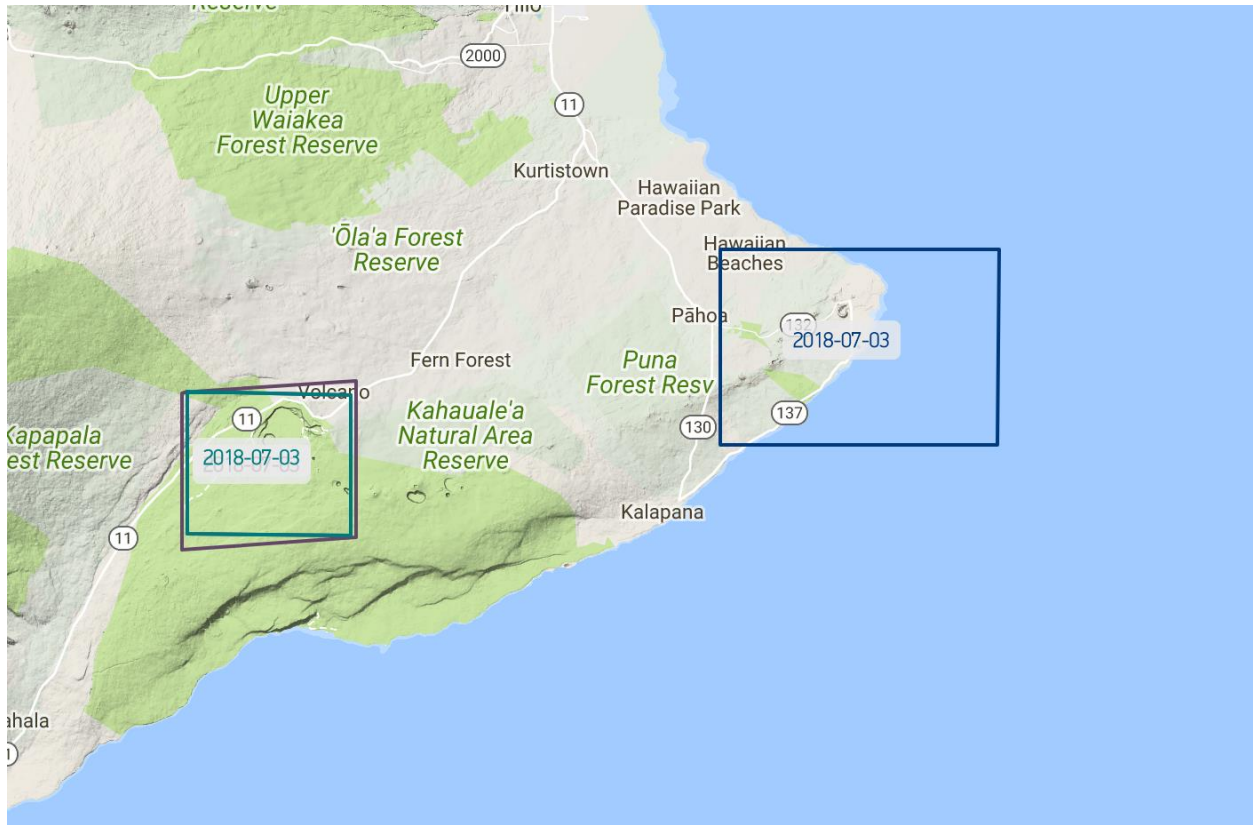
<http://cmt.usg.gov/>



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 72 hours

Eagle Vision

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




License
Disaster Relief

Image Type
Multispectral

GSD
1_5 m

Acquisition Date
25Jun18 - 1635 America/Asuncion

[Download KML](#)

[View Scene Page](#)



License
Disaster Relief

Image Type
Panchromatic

GSD
1 m

Acquisition Date
25Jun18 - 0913 America/Asuncion

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Disaster Relief

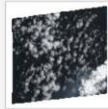
Image Type
Multispectral

GSD
1 m

Acquisition Date
23Jun18 - 1715 America/Asuncion

[Download KML](#)

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Disaster Relief

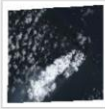
Image Type
Multispectral

GSD
1 m

Acquisition Date
22Jun18 - 1723 America/Asuncion

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Image Type
Multispectral

GSD
1_5 m

Acquisition Date
22Jun18 - 1657 America/Asuncion

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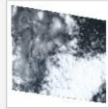
Image Type
Multispectral

GSD
1 m

Acquisition Date
21Jun18 - 1641 America/Asuncion

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Disaster Relief

Image Type
Multispectral

GSD
1 m

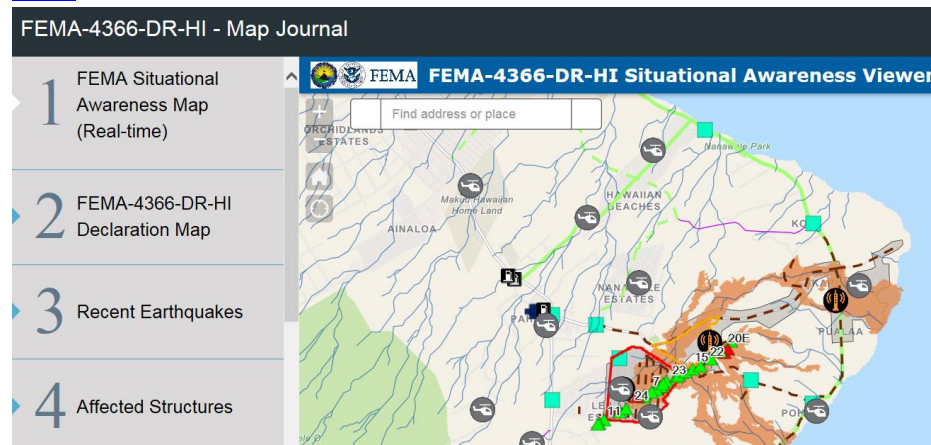
Acquisition Date
21Jun18 - 1641 America/Asuncion

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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:

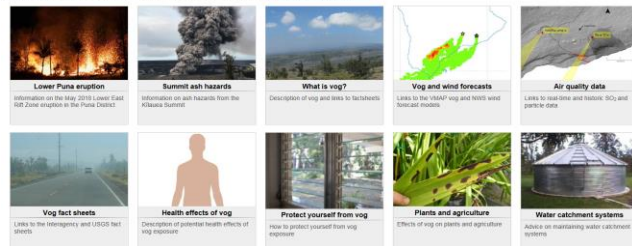
<https://emops.pdc.org/emops/public/registeruser.jsp>

Hawaii Interagency Vog Information Dashboard ★

<https://vog.ivhnn.org/>

Hawaii Interagency Vog Information Dashboard

Welcome to the Vog Dashboard. Please click on the links below to find comprehensive information and data related to vog and its impacts.

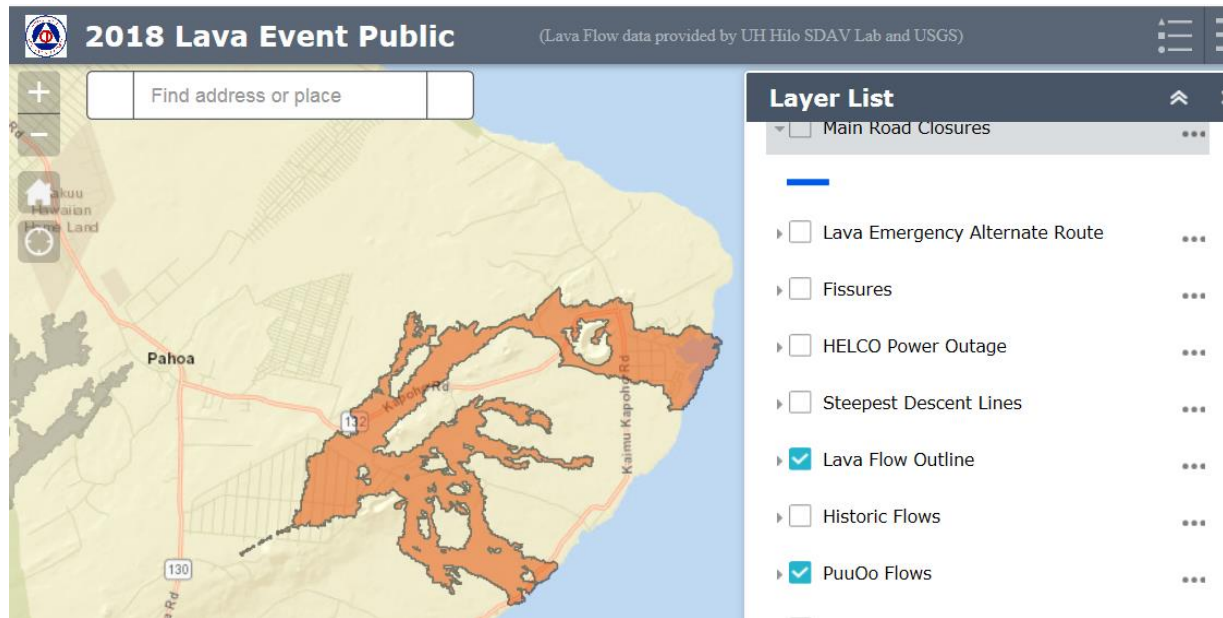


Hawaii County

<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&q=https://mappingsupport.com/p/disaster/2018/hawaii/hawaii_kilauea_eruption.txt

NASA Mount Kilauea Eruption, Hawaii 2018

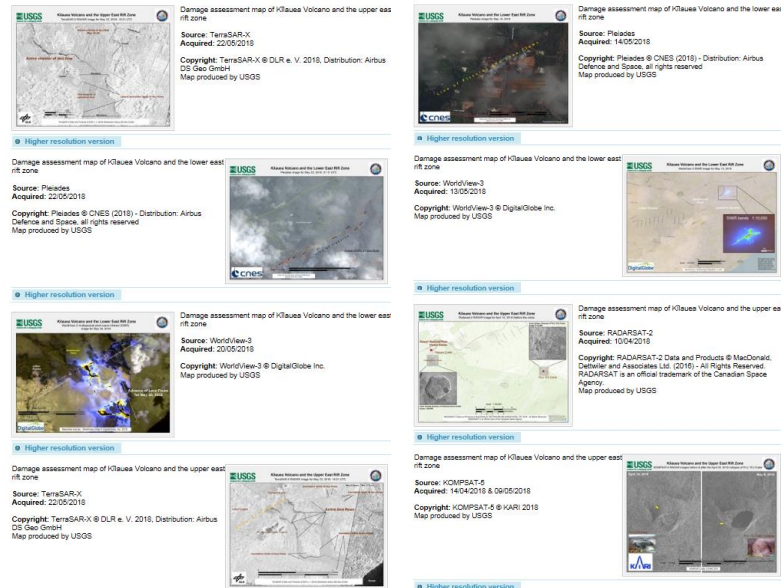
<https://maps.disasters.nasa.gov/arcgis/home/group.html?id=bcc9f2a163d74c818bb388fd7a55d852>

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&lng=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:

Ran Goldblatt

Federal Emergency Management Agency (FEMA) (New Light Technologies, Inc. (CTR))

ran.goldblatt@associates.fema.dhs.gov

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