September 7, 2017

201708_Hurricane_Harvey

Geospatial Information and Remotely Sensed Imagery

Hazards Data Distribution System (HDDS)

http://hddsexplorer.usgs.gov/

Select Event: "**201708_Hurricane_Harvey**" ➔ click on "+ "and then "Search"

Download Shapefiles for image footprints

https://hddsexplorer.usgs.gov/data/list/disaster/201708_Hurricane_Harvey/shapefiles/index

Note: For the HDDS links, **copy the links and paste them into your browser.**

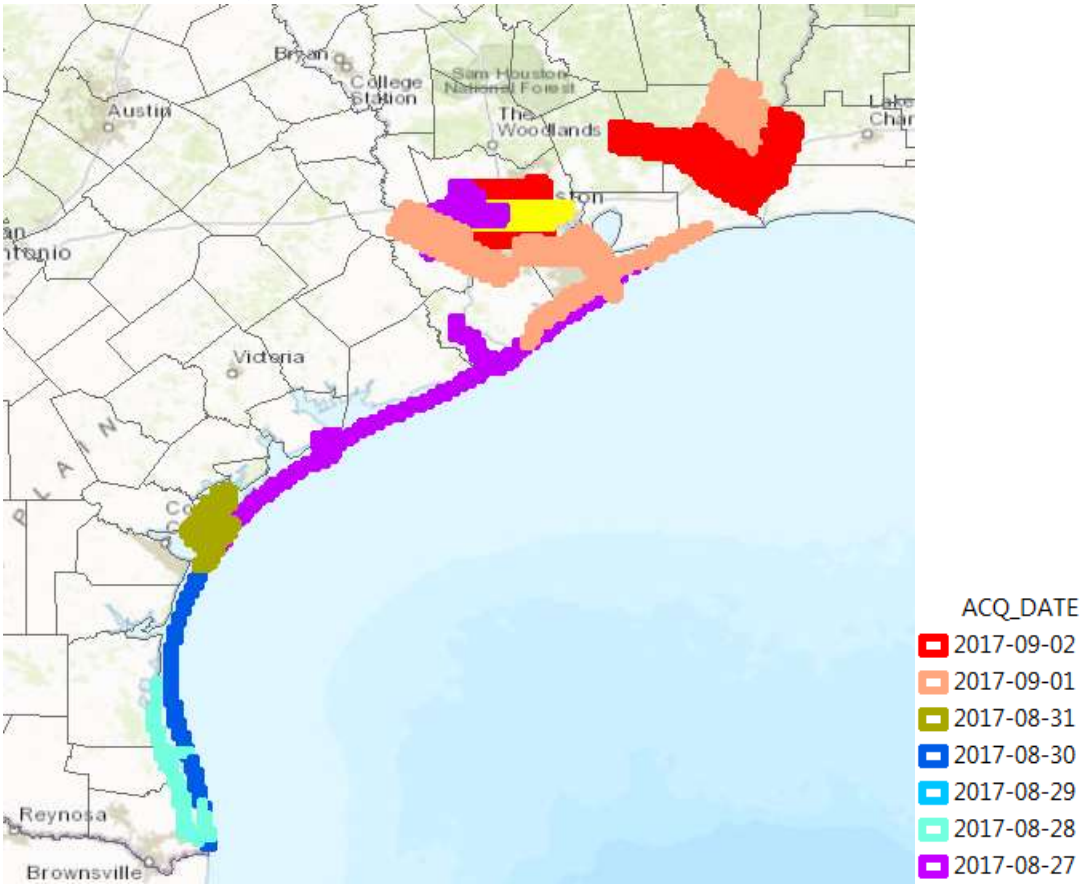
More information about HDDS: http://hdds.usgs.gov/hazards-data-distribution-system-hdds

RSS Feed: https://dds.cr.usgs.gov/ee-data/rss/events/201708_Hurricane_Harvey.rss

NOAA

https://hddsexplorer.usgs.gov/data/list/disaster/201708_Hurricane_Harvey/data/AERIAL_NOAA

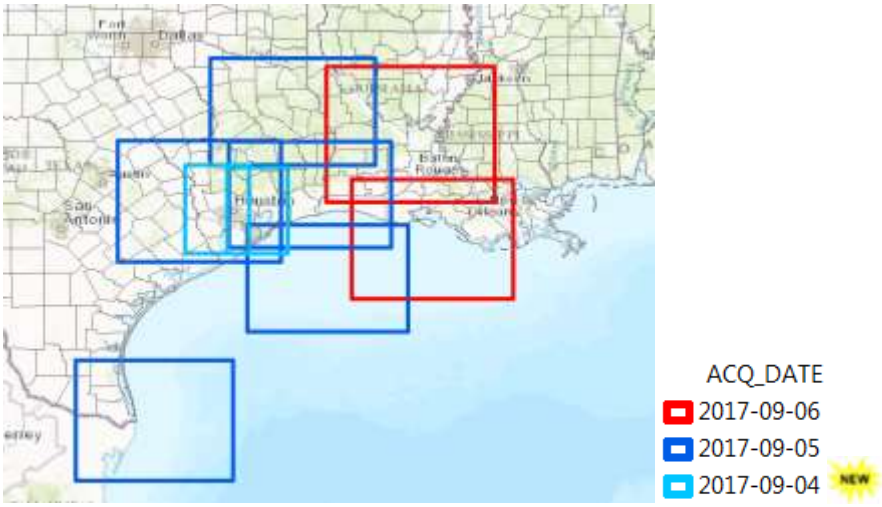
https://hddsexplorer.usgs.gov/data/list/disaster/201708_Hurricane_Harvey/data/AERIAL/NATIVE/NOAA



Civil Air Patrol

ACQ_DATE
2017-09-05
2017-09-04
2017-09-03
2017-09-02
2017-09-01
2017-08-31
NEW

Sentinel-1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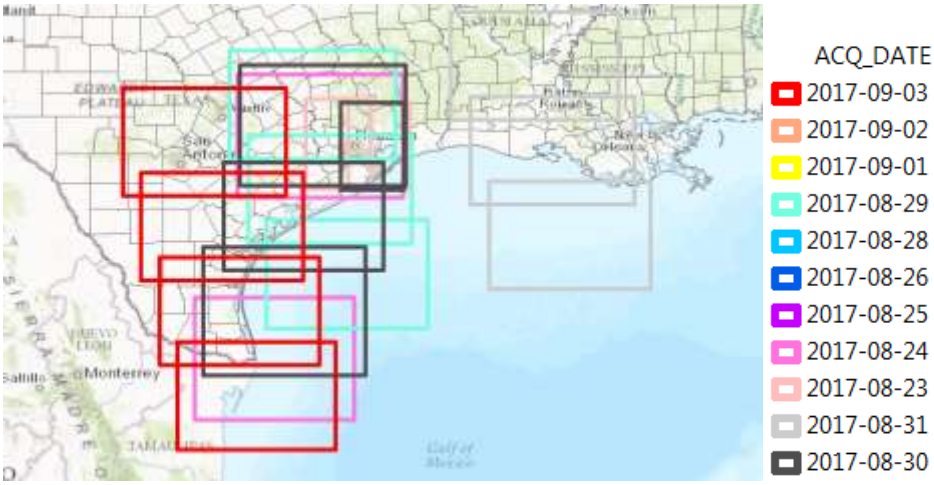
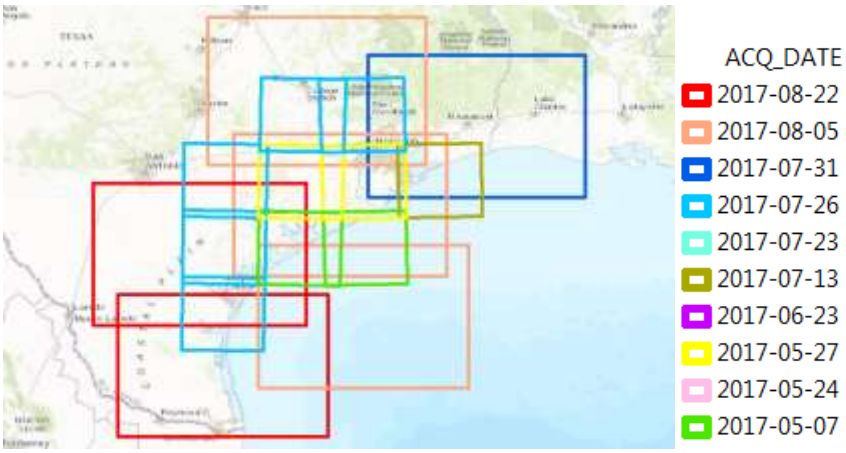
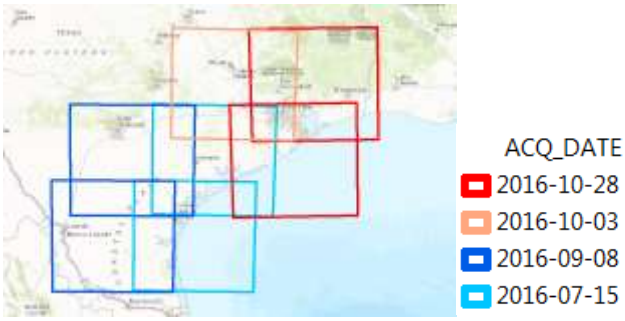
2017-09-06
2017-09-05
2017-09-04
NEW


ACQ_DATE
2017-09-03
2017-09-02
2017-09-01
2017-08-29
2017-08-28
2017-08-26
2017-08-25
2017-08-24
2017-08-23
2017-08-31
2017-08-30

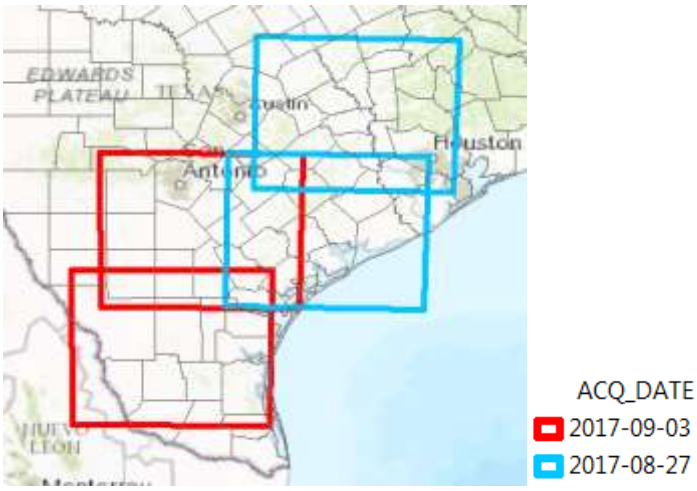
Sentinel-1 (Pre-Event)



Landsat 8 (Pre-Event)

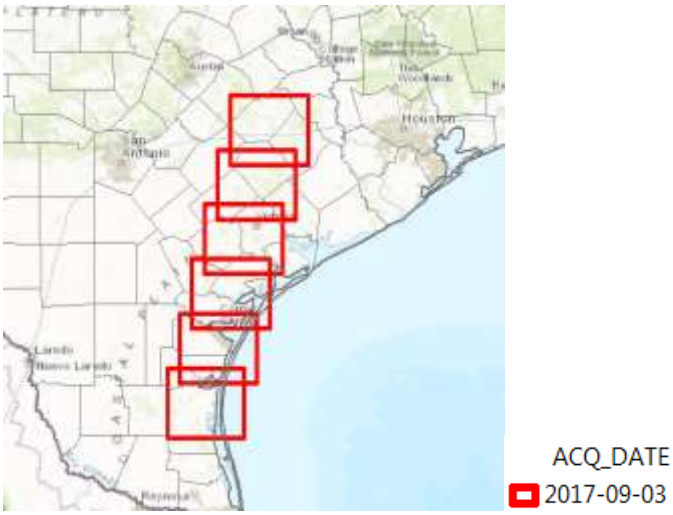


Landat 7



Landsat 7 (Pre-Event)

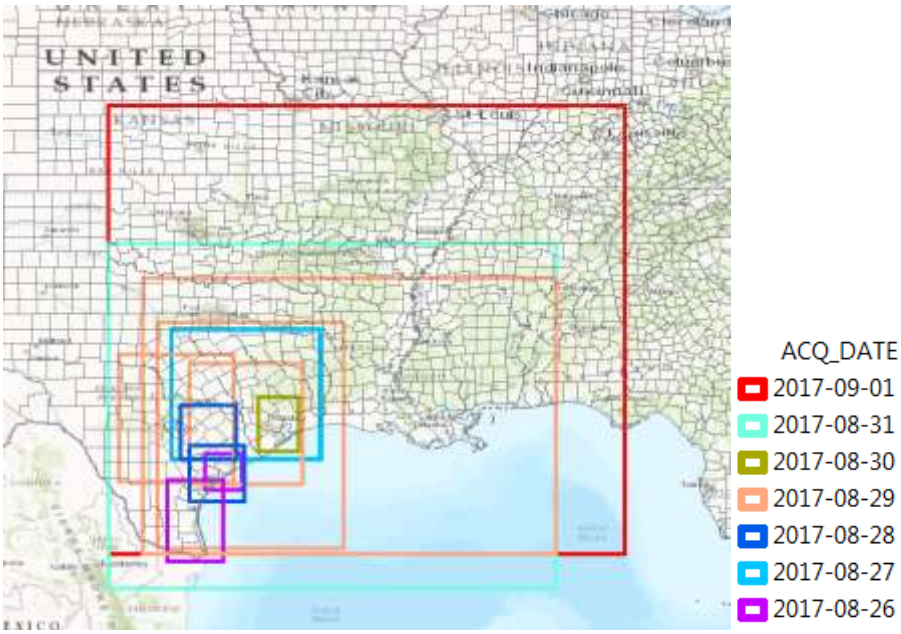
ASTER



ASTER (Pre-Event)

DMC

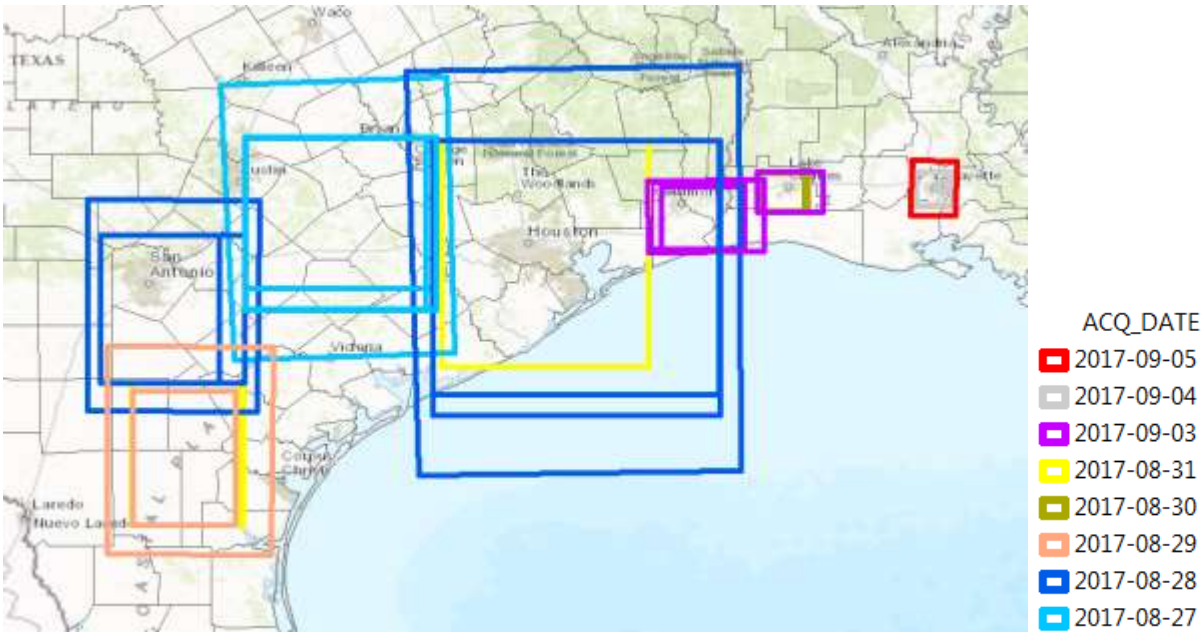
NOAA Flood Mapping



NASA Map Products

ALOS 2 and NPP

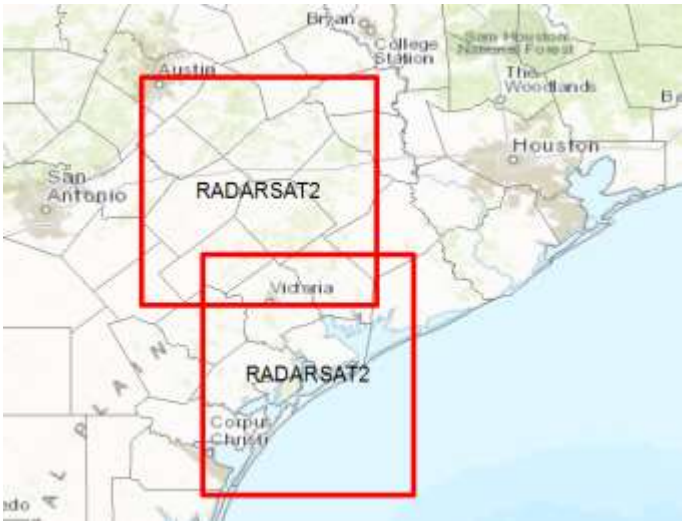
ESA Map Products



Dartmouth Flood Observatory

Natural Resources Canada (NRCAN)

Processing of Radarsat 2

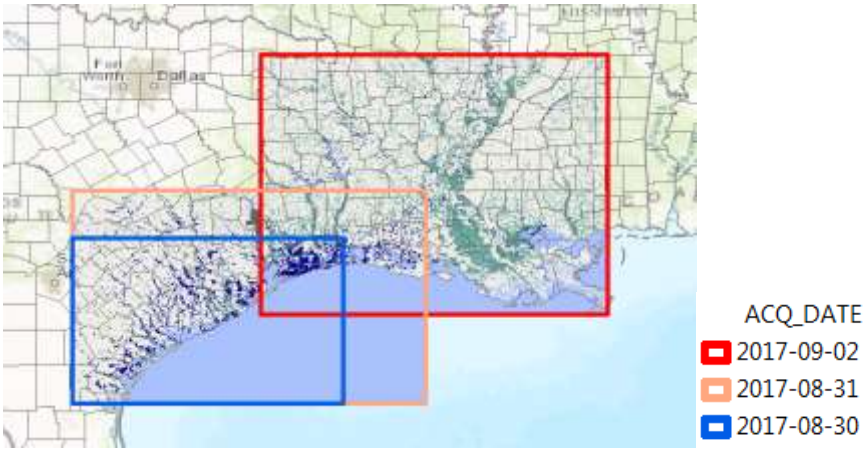


ACQ_DATE
2017-08-28

International Charter (ICSMD)

ACQ_DATE
2017-08-30
2017-08-29

AER Max Flood Harvey



Briefing from the Daily FEMA Geospatial Coordination call

https://hddsexplorer.usgs.gov/data/list/disaster/201708_Hurricane_Harvey/docs_misc/FEMA_GeoUpdates

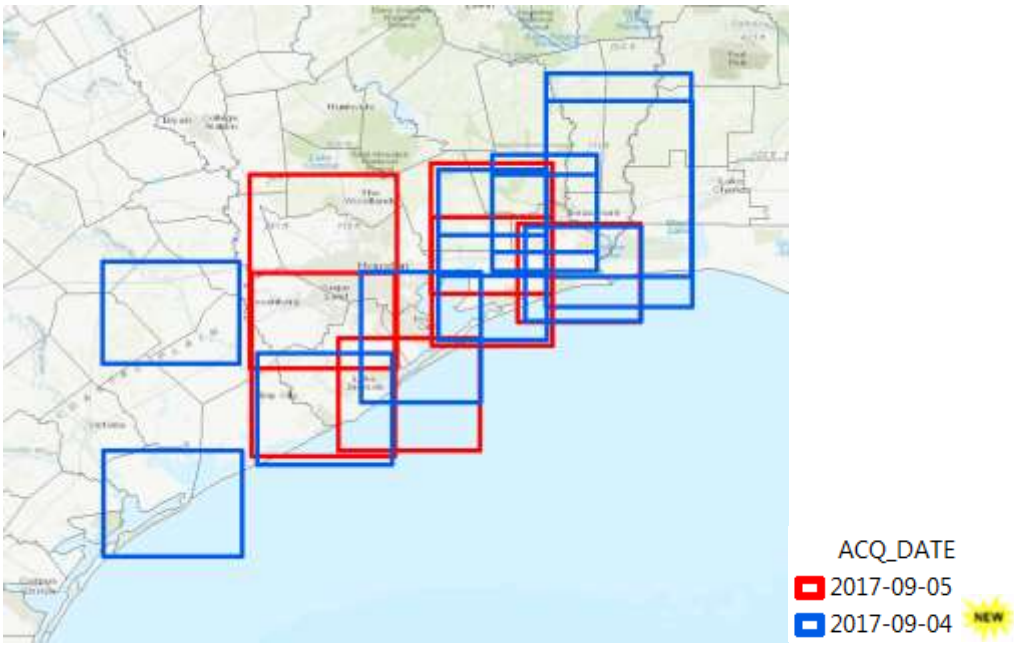
HDDS Restricted

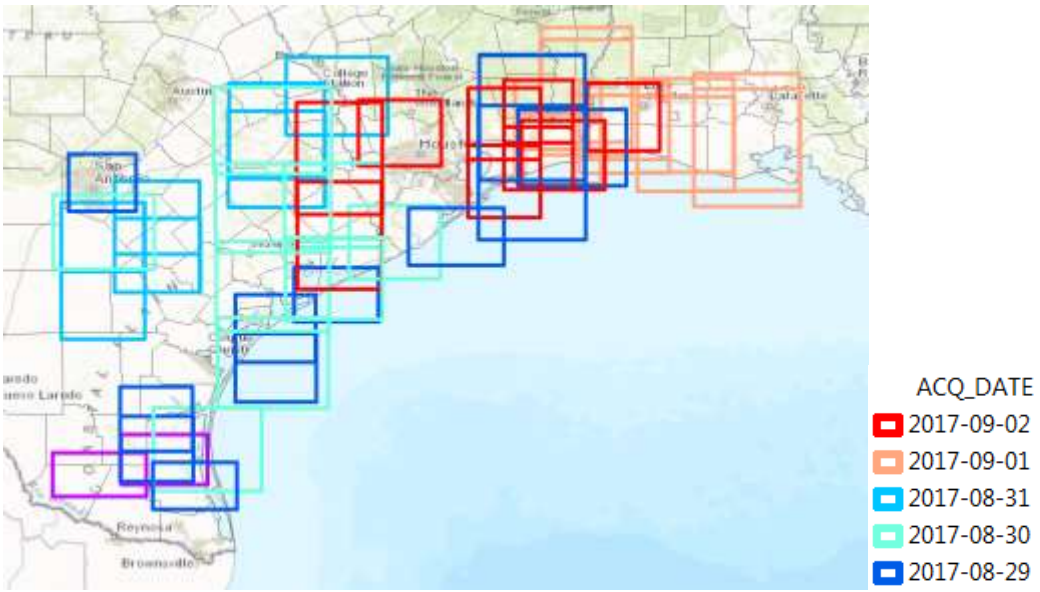
Self-Register for HDDS Restricted. http://hddsexplorer.usgs.gov/

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.)

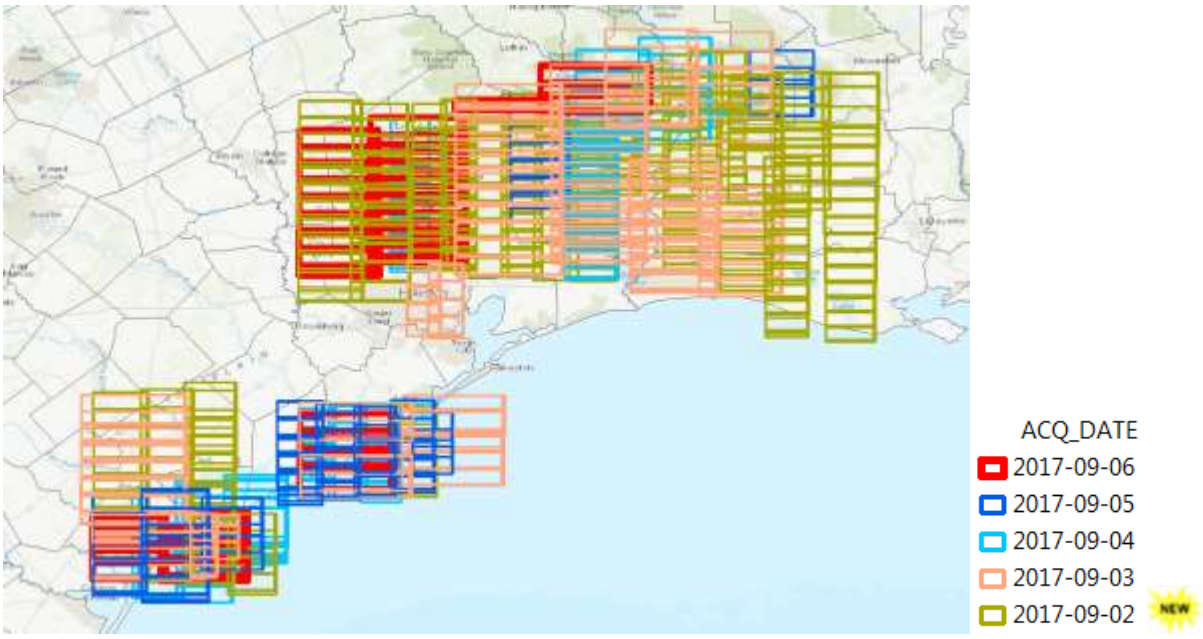
Questions on HDDS Contact: Brenda Jones bkjones@usgs.gov

SPOT

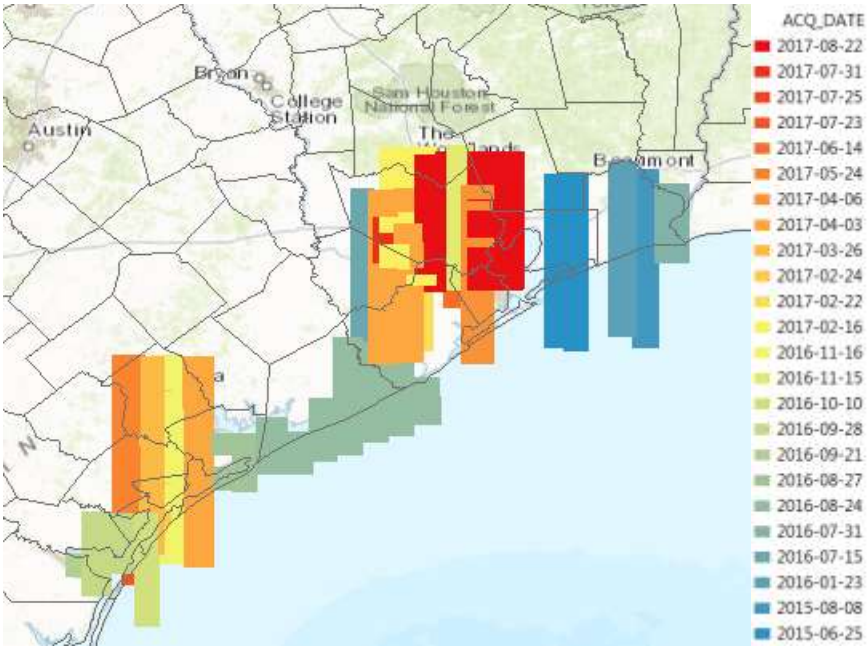



ACQ_DATE
2017-09-02
2017-09-01
2017-08-31
2017-08-30
2017-08-29

WorldView

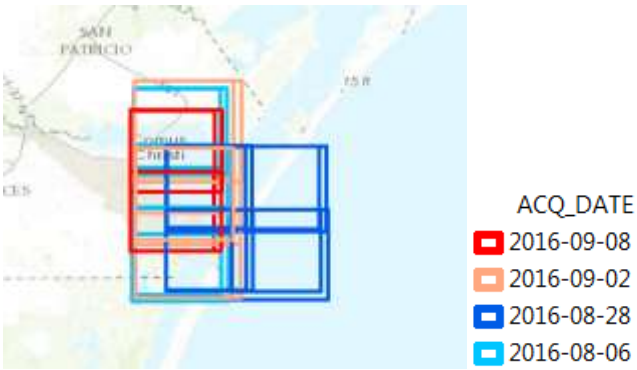

ACQ_DATE
2017-09-06
2017-09-05
2017-09-04
2017-09-03
2017-09-02
NEW

WorldView (Pre-Event)



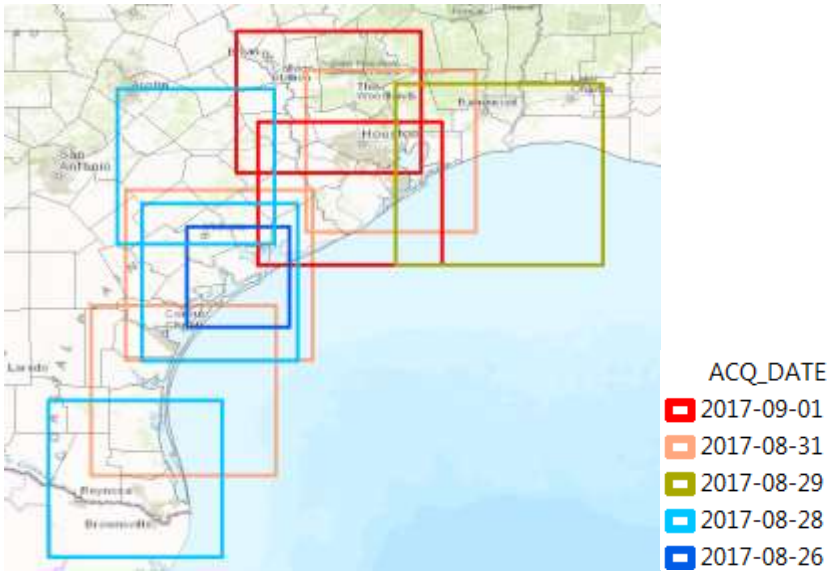
GEOEYE

GEOEYE(Pre-Event)



TerraSarX

RadarSat2 CSA



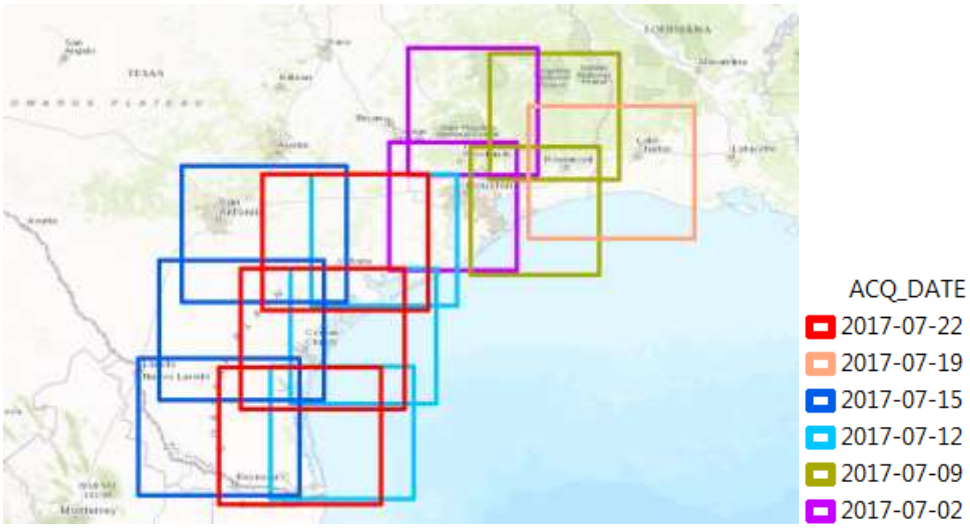
Pre-Event Radar

This is the link to the Radarsat 2 shapefiles.

https://hddsexplorer.usgs.gov/data/list/disaster/201706_Flood_Pre_Event_US/shapefiles/index

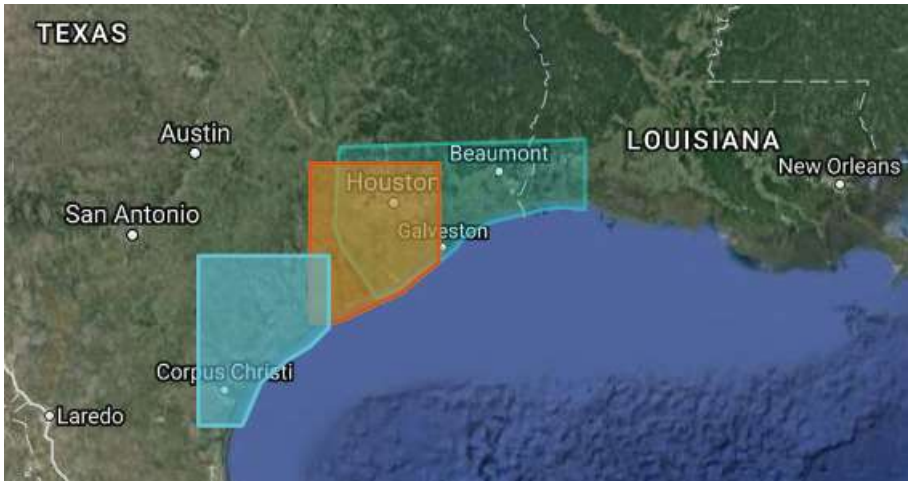
The imagery is stored under the event: 201706_Flood_Pre_Event_US

Radarsat-2 HH+HV (6.25 meter GSD) coverage that collected last month for the entire Texas Gulf Coast extending into Louisiana.



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

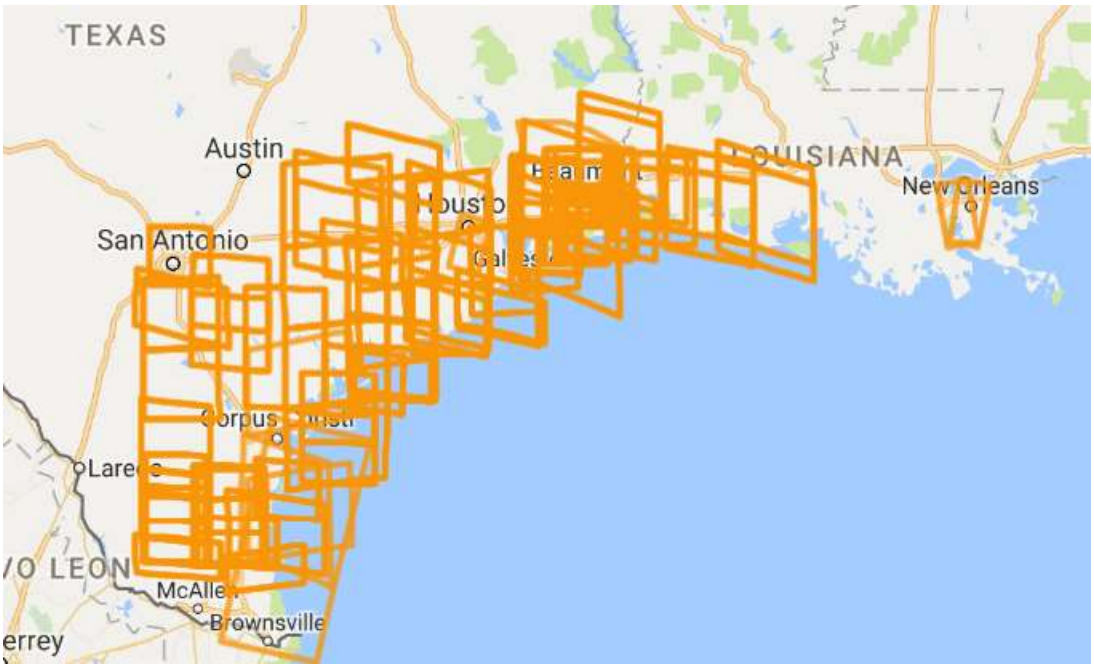
http://cmt.usgs.gov/



End HDDS

Eagle Vision (SPOT imagery)

https://evr2est.us/mission/hurricaneharvey



Sept 6, 2017 Imagery available
https://evr2est.us/eaglevision6 and https://evr2est.us/eaglevision4

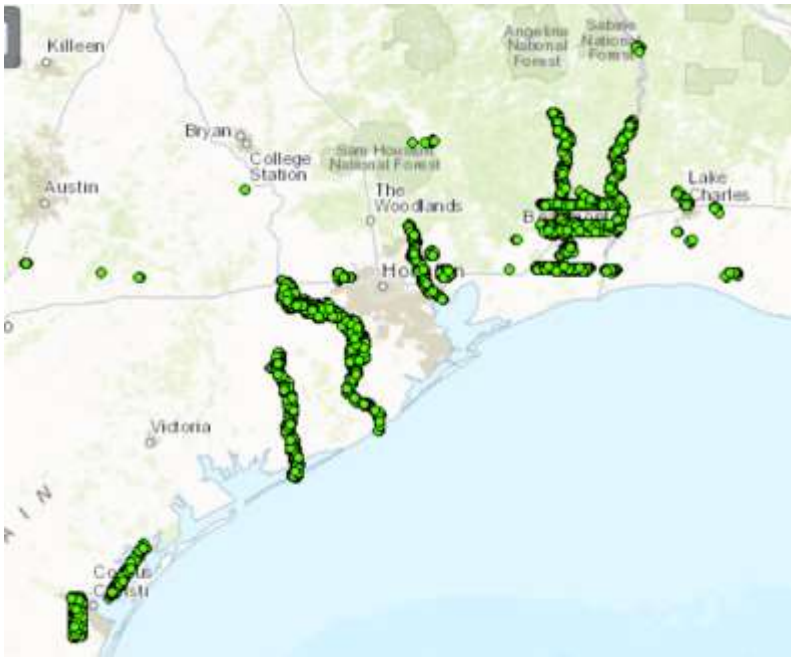
Digital Globe Imagery

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 the last 48 hours

Civil Air Patrol

http://disasters.geoplatform.gov/arcgis/apps/webappviewer/index.html?id=6bcb69ada4bd4471b5d29281b406899d (use Firefox)

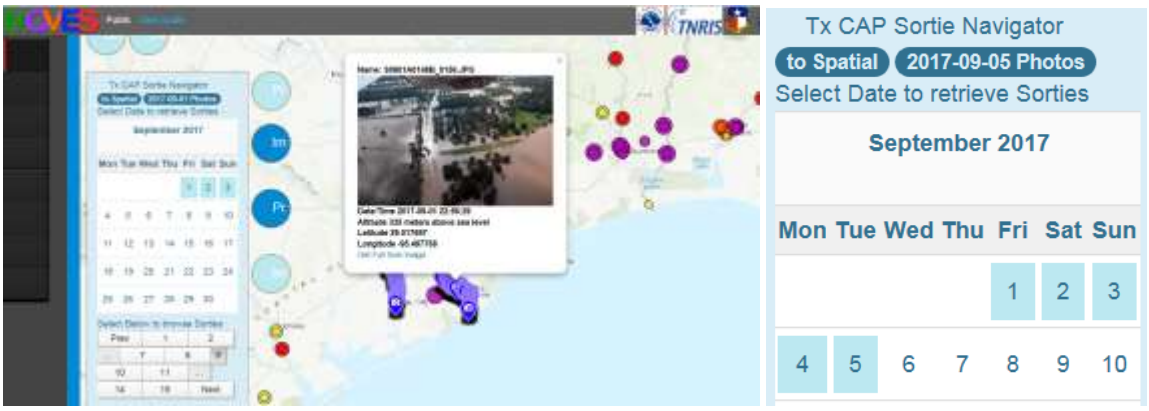


Texas Civil Air Patrol aerial photography

Click the sortie buttons to display the aircraft nadir points with previews & full-resolution images.

http://magic.csr.utexas.edu/public/views/

Click on Tx for CAP imagery.



Click on Calendar day (Sept 1,-5) to show location icons for imagery.

Texas Department of Public Safety Situation Reports

http://www.dps.texas.gov/dem/sitrep/default.aspx

Texas DOT Live Traffic

https://drivetexas.org/

Houston Traffic

https://traffic.houstontranstar.org/layers/

Houston Transtar High Water Locations

http://traffic.houstontranstar.org/roadclosures/#highwater

International Charter Space and Major Disasters

https://www.disasterscharter.org/web/guest/activations/-/article/cyclone-in-united-states-call-626-

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FEMA Section

FEMA Incident Journal

https://fema.maps.arcgis.com/apps/MapJournal/index.html?appid=97f53eb1c8724609ac6a0b1ae861f9b5

FEMA Region Event Journal

https://fema.maps.arcgis.com/apps/MapJournal/index.html?appid=9f85525d484b4057b0742747b7b44497

FEMA Harvey Web Map

https://www.arcgis.com/home/webmap/viewer.html?webmap=c9b205d0ea9b4beeb4aecf198bd8b1ee&extent=-113.7792,10.3314,-64.3847,40.893

FEMA Daily Geospatial Coordination Call Notes:
https://data.femadata.com/NationalDisasters/HurricaneHarvey/Documents/

FEMA information Sharing

This is the site that FEMA is actively updating with assessments and data.

https://data.femadata.com/NationalDisasters/

Sub-folders include:

Damage Assessments: Modeled geospatial damage assessments based on the development of flooding depth grids; then verified with satellite imagery
DamageAssessments/

Depth Grids: Be aware there are two different types of depth grids available

Observed: Created from observed data (e.g., river, coastal, and tide gauges); more refined dataset and used in the damage assessments

Forecasted: Created from AHPS forecasts; used for situational awareness
DepthGrid/

Hazus: Contains geodatabases from Pacific Disaster Center
Hazus/

Remote Sensing: Flood extents and other remote sensing data from NASA and Copernicus
RemoteSensing/

Flood maps from NASA using SPOT
https://data.femadata.com/NationalDisasters/HurricaneHarvey/Data/RemoteSensing/NASA/

Windfield peak (max sustained) based on Advisory #37 and Building economic loss and building debris from PDC
https://data.femadata.com/NationalDisasters/HurricaneHarvey/Data/Hazus/

FEMA Damage Assessments Web Mapping / REST Services

Damage Assessments:
https://gis.fema.gov/REST/services/FEMA/FEMA_Damage_Assessments/MapServer
https://gis.fema.gov/REST/services/FEMA/FEMA_Damage_Assessments/FeatureServer

Depth Grids:
https://gis.fema.gov/REST/services/Harvey/Modeled_Depth_Grids/MapServer

Modeled Forecast:

https://gis.fema.gov/REST/services/Harvey/Modeled_Depth_Grids/MapServer

FEMA Geospatial Coordination Call Notes:
https://data.femadata.com/NationalDisasters/HurricaneHarvey/Documents/

Hifld community / Geoplatform supporting FEMA
This is an aggregation site
https://respond-harvey-geoplatform.opendata.arcgis.com/

Imagery
https://respond-harvey-geoplatform.opendata.arcgis.com/datasets?q=imagery

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Hurricane Harvey Video Resources
https://respond-harvey-geoplatform.opendata.arcgis.com/datasets/hurricane-harvey-video-resources
Swipe Images
http://disasterresponse.maps.arcgis.com/apps/StorytellingSwipe/index.html?appid=10d0734b3e3d467c804e65735234263f#
FEMA Economic Recovery Support Function
https://www.fema.gov/media-library-data/1489754721419-8d29c58733990d27f2e8894f33cdbdb2/RSF_Economic_0616_508(1).pdf
FEMA Health and Social Services Recovery Support Function https://www.fema.gov/media-library-data/1466718036433-e2026c3a5907bf0cb86e75b3a3c51757/RSF_HealthandSocialServices_0623_508.pdf

FEMA 1km US National Grid/MGRS map generator NEW
http://fema.maps.arcgis.com/apps/webappviewer/index.html?id=b09fe0102a244e9b8ac663a6886151fc

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End FEMA Section

Domestic Operations Awareness and Assessment Response Tool (DAART)
National Guard Bureau is collecting Full Motion Video (FMV) over TX. The only access to this is DAART.
https://daart.us/
Event listed is TS Harvey
To request access: https://daart.us/Users/UserAccessProcess

NOAA Section

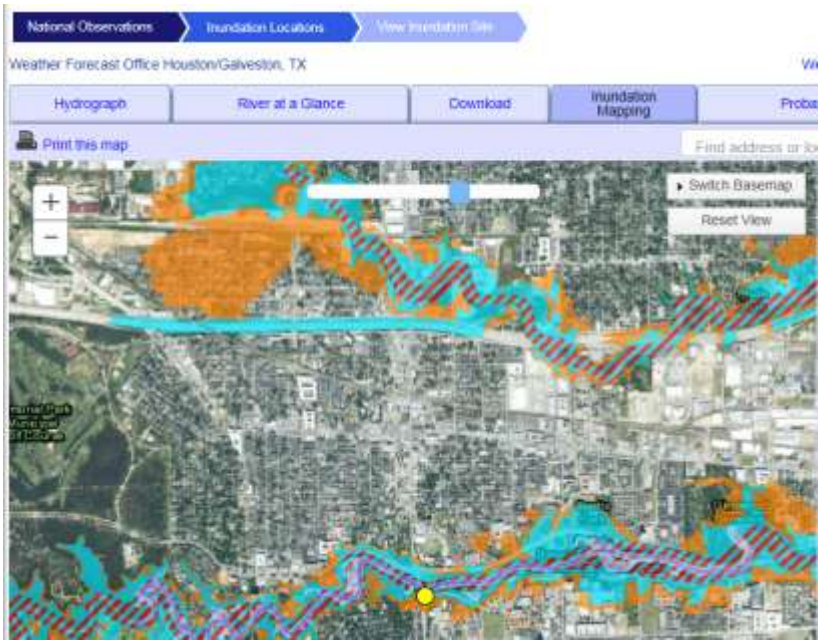
NOAA

NWS Flood Inundation Mapping

https://water.weather.gov/ahps/inundation.php

Inundation maps provided for select NWS Advanced Hydraulics Prediction Service (AHPS) forecast locations; several sites are within the landfall area

Flood Inundation Maps will show the extent of flooding expected spatially over a given area.

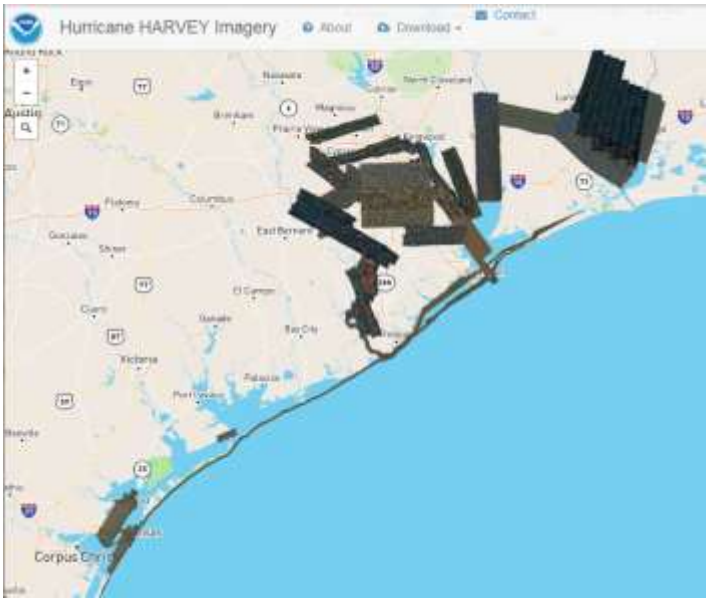


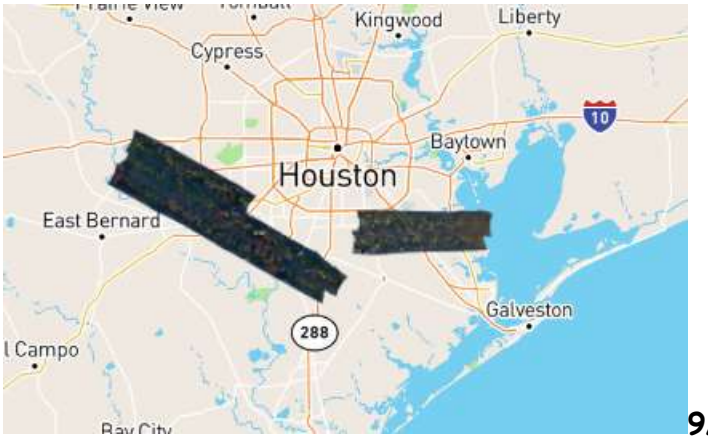
NOAA Emergency Response imagery

Available from Harvey Viewer and WMTS, and HDDS:

Harvey Viewer:

https://storms.ngs.noaa.gov/storms/harvey/index.html

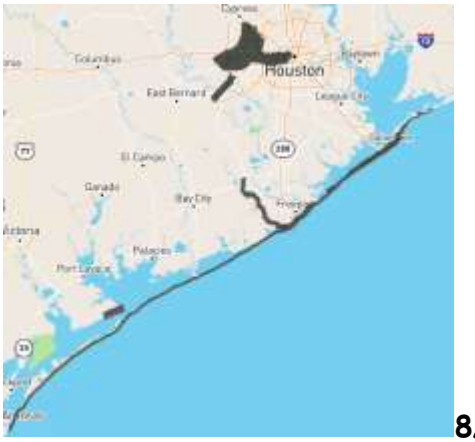




9/3/2017

September 1, 2017

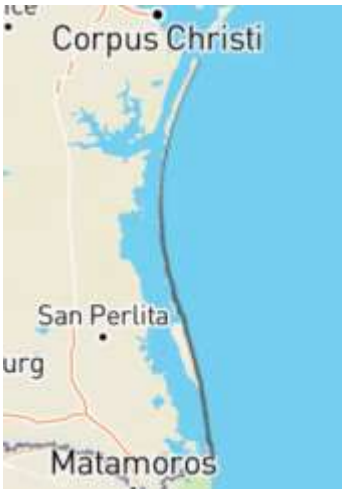
8/31/2017



8/30/2017

8/29/2017

8/28/2017



8/27/2017

WMTS:

https://storms.ngs.noaa.gov/storms/tilesd/services/tileserver.php/wmts

WMTS Service: 20170827_RGB; 20170828a_RGB; 20170828b_RGB; 20170829a_RGB; 20170829b_RGB; 20170830_RGB; 20170831a_RGB; 20170831b_RGB

Bulk download

https://ngsstormviewer.blob.core.windows.net/downloads/20170827_RGB.tar 27 August 2017 data
https://ngsstormviewer.blob.core.windows.net/downloads/20170828a_RGB.tar 28 August 2017 data
https://ngsstormviewer.blob.core.windows.net/downloads/20170828b_RGB.tar 28 August 2017 data
https://ngsstormviewer.blob.core.windows.net/downloads/20170829a_RGB.tar 29 August 2017 data.
https://ngsstormviewer.blob.core.windows.net/downloads/20170830_RGB.tar 30 August 2017 data 128GB
https://ngsstormviewer.blob.core.windows.net/downloads/20170831a_RGB.tar 31 August 2017
https://ngsstormviewer.blob.core.windows.net/downloads/20170831b_RGB.tar31 August 2017
https://ngsstormviewer.blob.core.windows.net/downloads/20170901a_RGB.tar 01 September 2017
https://ngsstormviewer.blob.core.windows.net/downloads/20170901b_RGB.tar 01 September 2017
https://ngsstormviewer.blob.core.windows.net/downloads/20170902b_RGB.tar 02 September 2017
https://ngsstormviewer.blob.core.windows.net/downloads/20170902c_RGB.tar 02 September 2017
https://ngsstormviewer.blob.core.windows.net/downloads/20170903a_RGB.tar 03 September 2017

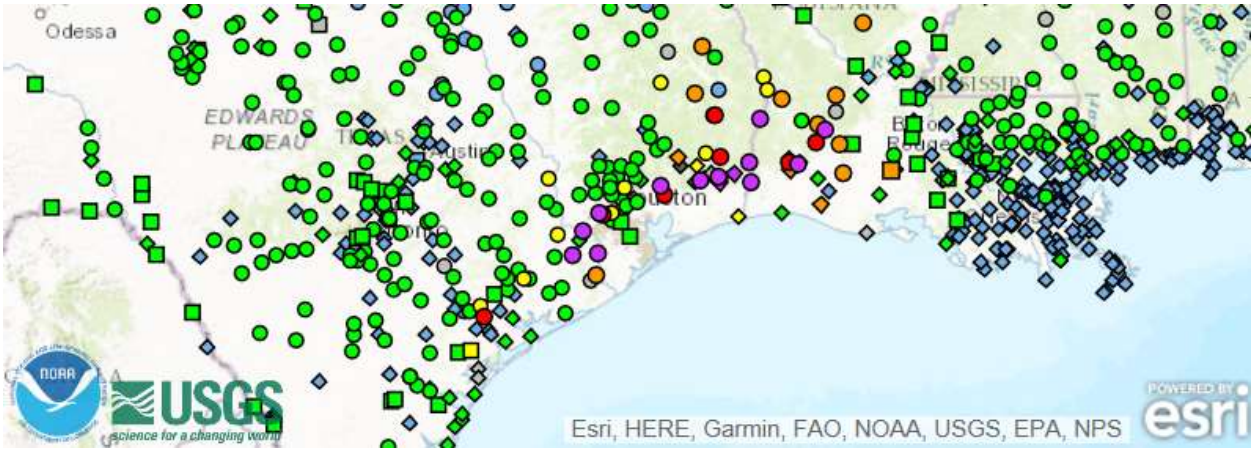
End: NOAA Emergency Response imagery

National Hurricane Center Data in GIS Formats

http://www.nhc.noaa.gov/gis/

NOAA ERMA All-Hazards Viewer
https://erma.noaa.gov/gulfofmexico

National Weather Service River Forecast Center
Observations and Forecasts – Web Service
http://water.weather.gov/ahps/



NOAA nowCOAST
https://nowcoast.noaa.gov/

NOAA Now Coast: MapServer: official NWS Potential Storm Surge Flooding Map
http://nowcoast.noaa.gov/arcgis/rest/services/nowcoast/wwa_meteocean_tropicalcyclones_inundation/MapServer

NOAA National Weather Service
NWS AHPS inundation sites - zoom to Texas and click on sites for inundation data:
http://www.weather.gov/hgx/

Weather.gov
https://water.weather.gov/ahps/inundation.php

NOAA Hurricane Harvey Resources
http://noaa.maps.arcgis.com/home/group.html?id=f948d37d96124d3d91f82b8731e1b864&start=1&view=list&sortOrder=asc&sortField=title#content

NOAA Coastal Imagery Viewer

Baseline imagery (pre event) click on 2015 in the upper left for areas to be impacted by Harvey
https://geodesy.noaa.gov/storm_archive/coastal/viewer/index.html

NOAA Satellite Services Division
http://www.ssd.noaa.gov/PS/TROP/storms/HARVEY.html

NOAA National Weather Service: Download Precipitation Shapefile
http://www.srh.noaa.gov/ridge2/RFC_Precip/

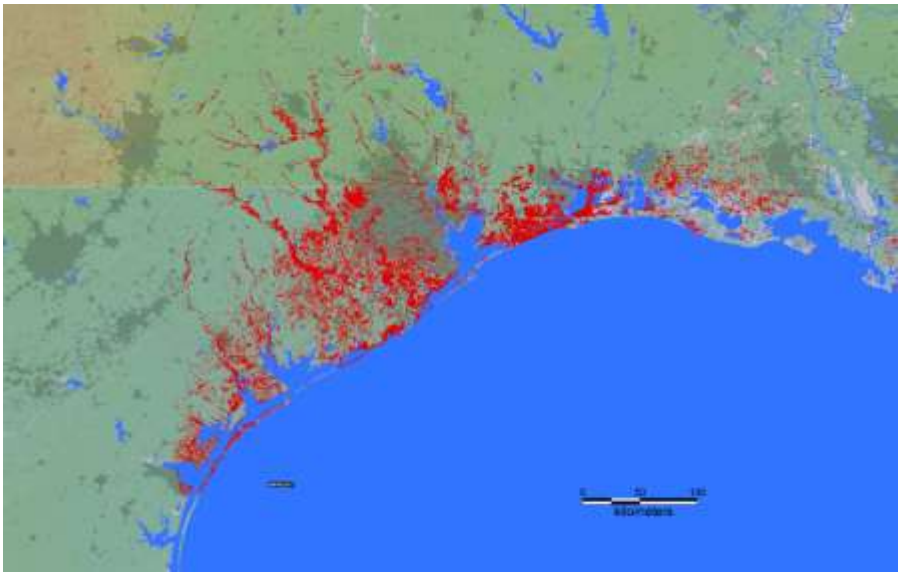
End NOAA Section

Planet Event Imagery
Planet is providing free access to support Harvey repsonse
https://www.planet.com/disaster/hurricane-harvey-2017-08-28/

Digital Globe Open data for Harvey
https://www.digitalglobe.com/opendata
https://www.digitalglobe.com/opendata/hurricane-harvey/pre-event ← Pre and Post event imagery

Open Street Map tasking for Harvey
http://tasks.openstreetmap.us/?sort_by=priority&direction=asc&search=harvey

Dartmouth Flood Observatory
http://floodobservatory.colorado.edu/Events/2017USA4510/2017USA4510.html



http://floodobservatory.colorado.edu/Events/2017USA4510/2017USA4510.tif

From: G. Robert Brakenridge [mailto:robert.brakenridge@colorado.edu]
Sent: Monday, September 04, 2017 10:00 PM
Subject: Re: Harvey GeoUpdate - 9/4/17

These GIS files are also being used by various news media and private concerns (T-mobile, some companies needing information for their employees, etc). A large geotif is also available at: http://floodobservatory.colorado.edu/Events/2017USA4510/2017USA4510.tif
Sentinel 1 SAR, and MODIS, GIS (.shp) files which are being widely used by the media via the Flood Observatory to illustrate flooding from Harvey (red area in attached screen shot) are found at:
http://floodobservatory.colorado.edu/Events/2017USA4510/GISData/DFO/Shp/
and
http://floodobservatory.colorado.edu/Events/2017USA4510/GISData/LuxembourgInstituteScienceTechnology/Shp/
and
http://floodobservatory.colorado.edu/Events/2017USA4510/GISData/Copernicus/
In last two cases, files are derived or translated from (public) Copernicus data, or from files provided by Patrick Matgen at Luxemboug Institute of Science and Technology. He processes Sentinel 1 SAR image pairs and produces shp files quite similar to our results from the same image pairs.
These can be added into your remote sensing folder if appropriate.
Thanks,
Bob
G. Robert Brakenridge
Director, Dartmouth Flood Observatory
http://floodobservatory.colorado.edu/

Senior Research Scientist
CSDMS, INSTAAR, University of Colorado
4001 Discovery Dr. Office N142, Boulder CO 80303
Office: 303-735-5485, Cell: 603-252-0659; Email: Robert.Brakenridge@Colorado.edu

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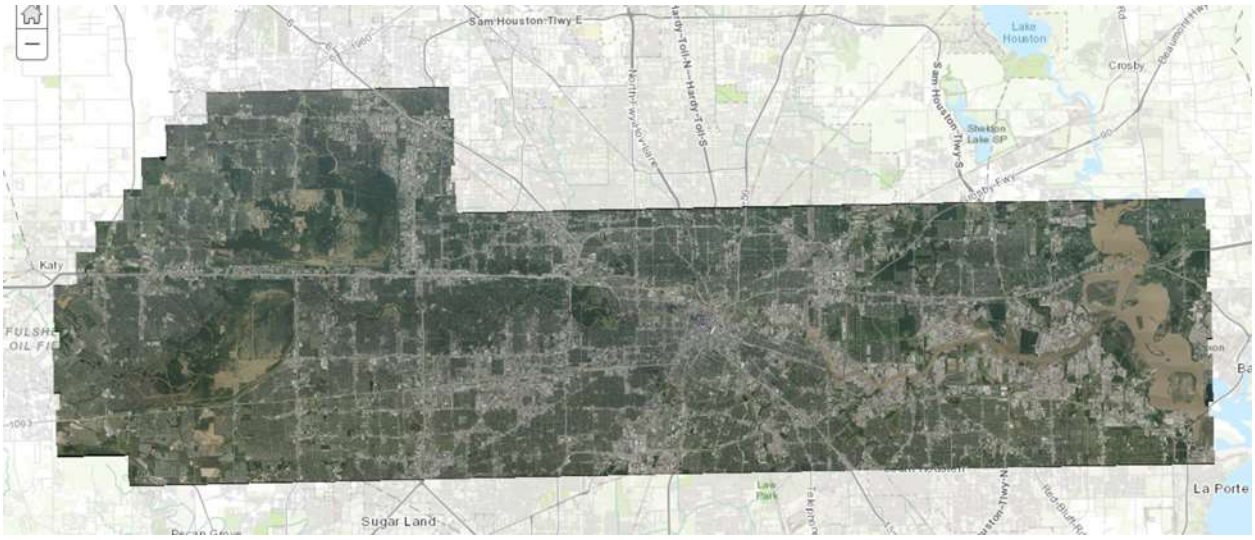
US Army Corps of Engineers Section

US Army Corps of Engineers

50 cm SID mosaic taken on morning of 31 August over Barker/Addicks Dams and downtown Houston. 15 cm will follow as will orthophotos of the area.

https://ags-swg.esriemcs.com/arcgis/rest/services/HarveyImagery/Harvey50cm_sid/MapServer ← 50 CM

https://ags-swg.esriemcs.com/arcgis/rest/services/HarveyImagery/Harvey15cm_MrSid_post_Harvey/MapServer <-- 15 CM NEW



September 1 MMC Products for Hurricane Harvey are available on CWBI cloud. Products are:

US Army Corps of Engineers

Note: all of these are modeling results based on forecast data.

Addicks Barker > 1FT 1 Sep 2017 modeling results based on forecast data

Recession Transmittal Notes:

http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/01SEP/transmittal_notes.txt

Inundation:

http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/01SEP/extent.7z

Depth Grid:

http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/01SEP/depthgrid.7z

ESRI Depth Grid Tile Layer:

http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/AB0901/{level}/{col}/{row}.png

Google Maps Tile:

http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/AB0901/{z}/{x}/{y}.png

Addicks Barker > 1FT 2 Sep 2017 modeling results based on forecast data

Recession Transmittal Notes:

http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/02SEP/transmittal_notes.txt

Inundation:

http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/02SEP/extent.7z

Depth Grid:

http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/02SEP/depthgrid.7z

ESRI Depth Grid Tile Layer:

http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/AB0902/{level}/{col}/{row}.png

Google Maps Tile:

http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/AB0902/{z}/{x}/{y}.png

Addicks Barker > 1FT 3 Sep 2017 modeling results based on forecast data

Recession Transmittal Notes:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/03SEP/transmittal_notes.txt
Inundation:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/03SEP/extent.7z
Depth Grid:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/03SEP/depthgrid.7z
ESRI Depth Grid Tile Layer:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/AB0903/{level}/{col}/{row}.png
Google Maps Tile:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/AB0903/{z}/{x}/{y}.png

Addicks Barker > 1FT 4 Sep 2017 **modeling results based on forecast data**
Recession Transmittal Notes:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/04SEP/transmittal_notes.txt
Inundation:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/04SEP/extent.7z
Depth Grid:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/04SEP/depthgrid.7z
ESRI Depth Grid Tile Layer:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/AB0904/{level}/{col}/{row}.png
Google Maps Tile:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/AB0904/{z}/{x}/{y}.png

Addicks Barker > 1FT 5 Sep 2017 **modeling results based on forecast data**
Recession Transmittal Notes:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/05SEP/transmittal_notes.txt
Inundation:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/05SEP/extent.7z
Depth Grid:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/05SEP/depthgrid.7z
ESRI Depth Grid Tile Layer:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/AB0905/{level}/{col}/{row}.png
Google Maps Tile:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/AB0905/{z}/{x}/{y}.png

Addicks Barker > 1FT 6 Sep 2017 **modeling results based on forecast data**
Recession Transmittal Notes:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/06SEP/transmittal_notes.txt
Inundation:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/06SEP/extent.7z
Depth Grid:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/06SEP/depthgrid.7z
ESRI Depth Grid Tile Layer:

http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/AB0906/{level}/{col}/{row}.png
Google Maps Tile:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/AB0906/{z}/{x}/{y}.png

Neches Peak Inundation 1 Sep 2017 **modeling results based on forecast data**
Transmittal Notes:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/NE/01SEP/transmittal_notes.txt
Inundation:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/NE/01SEP/extent.7z
Depth Grid:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/NE/01SEP/depthgrid.7z
ESRI Depth Grid Tile Layer:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/NE0901/{level}/{col}/{row}.png
Google Maps Tile:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/NE0901/{z}/{x}/{y}.png

Sabine Peak Inundation 1 Sep 2017 **modeling results based on forecast data**
Transmittal Notes:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/SR/01SEP/transmittal_notes.txt
Inundation:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/SR/01SEP/extent.7z
Depth Grid:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/SR/01SEP/depthgrid.7z
ESRI Depth Grid Tile Layer:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/SR0901/{level}/{col}/{row}.png
Google Maps Tile:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles4/SR0901/{z}/{x}/{y}.png

Addicks Barker > 1FT 3 Sep 2017 **modeling results based on forecast data**
Recession (2-Sept USACE Release Forecast)
Transmittal Notes:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/03SEPB/transmittal_notes.txt
Depth Grid:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/AB/03SEPB/depthgrid.7z
ESRI Depth Grid Tile Layer:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles5/AB0903/{level}/{col}/{row}.png
Google Maps Tile:
http://usace-cwbi-test-mmc.s3-website-us-gov-west-1.amazonaws.com/harvey/tiles5/AB0903/{z}/{x}/{y}.png

End US Army Corps of Engineers Section

NASA UAVSAR https://uavsar.jpl.nasa.gov/
Flight

https://uavsar.jpl.nasa.gov/cgi-bin/report.pl?planID=PLAN_17089#map

https://uavsar.jpl.nasa.gov/cgi-bin/data.pl Pre-Event

Secure File Downloads:

Available until: 15 September 2017

sanjac_32916_17088_004.kmz

20.95 MB, Fingerprint: 91ff3ee4d99ecad2d831339e367d4634 (What is this?)

sanjac_32917_17088_009.kmz

20.20 MB, Fingerprint: f8170e463574daafa71e53b02415179c (What is this?)

neches_16508_17088_012.kmz

17.98 MB, Fingerprint: 1c586192214545b67bb81a6540aee4e3 (What is this?)

neches_34510_17088_011.kmz

18.61 MB, Fingerprint: a66e90ad08b4bff0a50e684f649a62f6 (What is this?)

sanjac_14939_17088_010.kmz

20.15 MB, Fingerprint: 2df602e436c3480c636301b2167da641 (What is this?)

brazos_14937_17088_003.kmz

20.85 MB, Fingerprint: baad72edc63745a6639865916e97e581 (What is this?)

brazos_14938_17088_005.kmz

20.90 MB, Fingerprint: fb89d7713d89066465b4d9550002e1ac (What is this?)

neches_16510_17088_018.kmz

18.45 MB, Fingerprint: d3397be0af01f6ba9ccd617f32783e58 (What is this?)

sabine_01200_17088_017.kmz

20.35 MB, Fingerprint: b1ee2c1ac659c195878309d7b2f9b2ba (What is this?)

sabine_19207_17088_016.kmz

14.34 MB, Fingerprint: 077a0f0fda976a046cf2f1449d6fc32f (What is this?)

Geotiff files:

UAVSAR20170901.zip

255.71 MB, Fingerprint: ce9f2447c9d21100787272d8e69be564 (What is this?)

UAVSAR20170901_part2.zip

171.16 MB, Fingerprint: 3f087de095cfa82c4ecca7c86776347a (What is this?)

End UAVSAR

NASA Disasters

https://disasters.nasa.gov/

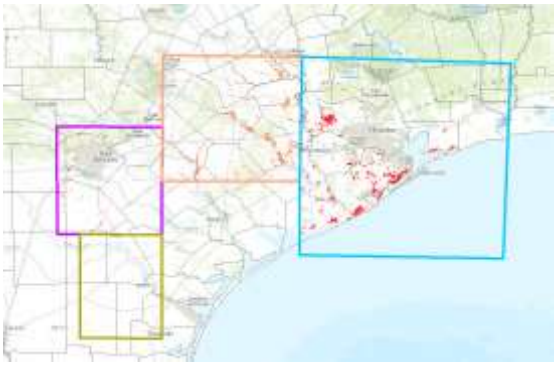
Copernicus Emergency Management Service (Activated by FEMA)

EMSR229: Hurricane in Texas

http://emergency.copernicus.eu/mapping/list-of-components/EMSR229

You can download image based maps or shapefiles.

Red areas are flooded. See: in zip file ➔ *.crisi_information_ply**



[EMSR229] La Fayette: Delineation Map, Monitoring 2

Published: 2017-09-05 12:02:07 (UTC)
Product version: v1
Map scale: 1:60000
Status:
Production finished

Downloadable items
PDF: 100 DPI 200 DPI 300 DPI
JPEG: 100 DPI 200 DPI 300 DPI
TIFF: 100 DPI 200 DPI 300 DPI
Vector package: ZIP

[EMSR229] La Fayette: Delineation Map, Monitoring 1

Published: 2017-09-04 21:59:37 (UTC)
Product version: v1
Map scale: 1:60000
Status:
Production finished

Downloadable items
PDF: 100 DPI 200 DPI 300 DPI
JPEG: 100 DPI 200 DPI 300 DPI
TIFF: 100 DPI 200 DPI 300 DPI
Vector package: ZIP

WEB MAP SERVICES

Sea Surface Temperatures (NOAA)
http://nowcoast.noaa.gov/arcgis/rest/services/nowcoast/analysis_ocean_sfc_sst_time/MapServer
Inundation Data (NOAA NowCoast)
http://nowcoast.noaa.gov/arcgis/rest/services/nowcoast/wwa_meteocean_tropicalcyclones_inundation/MapServer
NWS Nexrad Radar (NOAA)
http://nowcoast.noaa.gov/arcgis/rest/services/nowcoast/radar_meteo_imagery_nexrad_time/MapServer
Satellite GOES Imagery (NOAA)
http://nowcoast.noaa.gov/arcgis/rest/services/nowcoast/sat_meteo_imagery_goes_time/MapServer
FEMA National Shelters
https://gis.fema.gov/REST/services/NSS/FEMA_NSS/MapServer

ESRI New Event Imagery

Esri is working with Vexcel to provide access to post event high resolution (5cm – 7cm) imagery of Hurricane Harvey affected areas.

To make this available as quickly as possible, we have stood up an Image Server to serve the data. This imagery is available to government agencies, utility companies, and other partners supporting the response. We are restricting access to ensure the server doesn't get overwhelmed. In parallel, we are working on a cached version of the imagery that will be available in a couple of days.

In order to access the imagery, we will need to add your ArcGIS Online account to this group - http://arcg.is/1LfWCG. Please send your ArcGIS Online username to jbaranyi@esri.com or karmstrong@esri.com to gain access. Note, in order to invite you to the ArcGIS Online group, you will need to make sure your profile is set to public. For questions on how to do this, see the Who can see your profile section here - http://doc.arcgis.com/en/arcgis-online/reference/profile.htm

Once you have access to the group, you will be able to view the service directly and add it to your maps and apps.

Note – if you have other restricted / nonpublic data to share, feel free to share with this group.

If you have any questions, please contact jbaranyi@esri.com or karmstrong@esri.com.

Thanks,

-Jeff

Jeff Baranyi | Esri Public Safety Assistance Program Operations Manager
Esri | 1 International Ct. | Broomfield, CO 80021 | USA
T 1 303 449 7779 x8229 | M 1 303 249 4594 | jbaranyi@esri.com | esri.com/disaster

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ESRI public information products

- **Story Map for Harvey**
  https://story.maps.arcgis.com/apps/MapSeries/index.html?appid=afb7f3b9c3784d27bba7157752cd7034
- **Hurricane and Cyclone Public Information Map**
  https://disasterresponse.maps.arcgis.com/apps/PublicInformation/index.html?appid=a2b187e887924f4488d273b5972ea062
- Impact Summary Map -
  http://www.arcgis.com/apps/ImpactSummary/index.html?appid=54fb6247bc904fa88f7df4a29b3a8e5b
- Story Map - Hurricanes and Tropical Cyclones Overview
  http://disasterresponse.maps.arcgis.com/apps/MapSeries/index.html?appid=db6238df958148108cceb3b05619a7f6

- **Situational Awareness Viewer - Tropical Depression Harvey**
  http://disasterresponse.maps.arcgis.com/apps/webappviewer/index.html?id=5630c07e5f324f9195fc83fff831a798

ESRI Data sources that you can add to your maps and apps for situational awareness
These require ArcGIS credentials:

- Active Hurricanes / Tropical Cyclones Global
  http://www.arcgis.com/home/item.html?id=5b84e159dace4bf8ad9e9154085ba45d
- Surface Meteorological and Hydrologic Analyses - Quantitative Precipitation Estimate
  https://www.arcgis.com/home/item.html?id=2b65b91dcfce4dddb235c61f62dc890d
- Live Stream Gauges (Flooding)
  https://www.arcgis.com/home/item.html?id=61003c853d2c4c338841429610b5747f

ESRI Data sources that you can add to your maps and apps for situational awareness
These do not require ArcGIS credentials:

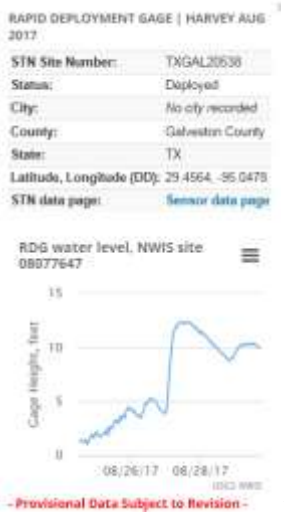
- Precipitation Forecast (US)
  http://www.arcgis.com/home/item.html?id=71afd16b8845426e9435c5dbb9ca8ea6
- National Water Model (10 Day Anomaly Forecast)
  http://www.arcgis.com/home/item.html?id=51b2bc5d620543b2825c60cc75e9a441
- National Water Model (Hourly Anomaly Forecast)
  http://www.arcgis.com/home/item.html?id=b9ec31770ee643509b942dfdec393b7f
- National Water Model (10 Day Forecast)
  http://www.arcgis.com/home/item.html?id=f43c154ef3b9421bbda14bc17f9e98d2
- National Water Model (Hourly Forecast)
  http://www.arcgis.com/home/item.html?id=0a42a065b8094842a0218c540e27761a

HHS Active Hurricane Viewer
https://geohealth.hhs.gov/arcgis/home/

USGS

https://www.usgs.gov/harvey
http://txpub.usgs.gov/txwaterdashboard/ ← Texas Water Dashboard
http://water.usgs.gov/maps.html
http://waterdata.usgs.gov/nwis/rt
http://doildt.maps.arcgis.com/apps/webappviewer/index.html?id=d96f7f94fc2b4ca0929c19fd5c606f91 ← Event Support Viewer

http://stn.wim.usgs.gov/FEV/ ← Flood Event Viewer Select Harvey from drop down menu



←FEV Gage Surge Graph

https://stn.wim.usgs.gov/fev/#HarveyAug2017

GDACS

http://www.gdacs.org/resources.aspx?eventtype=TC&eventid=1000387&episodeid=24

PDC

http://www.pdc.org/event-dashboard/2017_Hurricane_Harvey/

HAZUS Runs

HAZUS – Direct Economic Losses for Buildings by Census Tract

http://www.pdc.org/event-products/preview/?id=1515

HAZUS – Debris Generated by Census Tract

http://www.pdc.org/event-products/preview/?id=1514

DisasterAWARE https://emops.pdc.org/emops/?hazard_id=72861

Register here for a DisasterAWARE Account:

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

Census Bureau NEW

https://census.gov/topics/preparedness/events/hurricanes/harvey.html?intcmp=s1harvey

Power

https://fema.maps.arcgis.com/apps/webappviewer/index.html?id=bf3fdd97c60e4f08af9ff7cd8e625aa6

http://gis.centerpointenergy.com/outagetracker/?WT.ac=OC_Image_Callout

http://stormcenter.oncor.com/external/default.html

http://outagemap.aeptexas.com.s3.amazonaws.com/external/default.html

http://www.etrviewoutage.com/external/tx.aspx

https://outagemap.austinenergy.com/external/default.html

Red Cross
http://maps.redcross.org/website/Tropical/ARC_Tropical_Links.html

Humanity Road
https://www.humanityroad.org/situation-reports/usa/hurricane-harvey

All Hazards Consortium
http://www.ahcusa.org/harvey-8252017.html

NEMA IAEM Harvey
http://ppp.trustedops.com/

Fleet Response Working Group GeoCollaborate
https://frwg.geocollaborate.com/dashboard/

Google Crisis Map
http://google.org/crisismap/2017-harvey?

National Alliance for Public Safety GIS (NAPSG): Supporting DHS HIFLD
https://napsg.maps.arcgis.com/apps/StoryMapCrowdsource/index.html?appid=b6ef838e4d26489e8f62102639dc3d91

Coastal Emergency Risks Assessment (CERA)
http://cera.cct.lsu.edu/

Reference Maps, Lidar, Imagery (pre-event)

US National Grid Atlases for Harvey
http://usngcenter.org/portfolio-item/mapbooks/

LIDAR
Pre-event lidar the U.S. Interagency Elevation Inventory (USIEI)
https://coast.noaa.gov/inventory/

Damage Preliminary Report:

Structural Investigation of Coastal Wind- and Surge-Induced Residential Building Damage Caused by Hurricane Harvey (2017)

Preliminary Report

Richard J. Krupar III, Postdoctoral Associate, University of Maryland, College Park, MD, USA
David B. Roueche, Assistant Professor, Auburn University, Auburn, AL, USA
Daniel J. Smith, Research Fellow, James Cook University, Townsville, QLD, AUS
Franklin T. Lombardo, Assistant Professor, University of Illinois at Urbana-Champaign, Urbana, IL, USA

https://hddsexplorer.usgs.gov/data/list/disaster/201708_Hurricane_Harvey/docs_misc/Preliminary_Damage_Report

Pre-Event NAIP Imagery Download NAIP by TX County:
https://nrcs.app.box.com/v/naip/folder/20065101796

Send comments, additions, and corrections to:
Glenn Bethel, USDA Remote Sensing Advisor
glenn.bethel@fas.usda.gov **(202)720-1280**
If you would like to be on the distribution list, send me an email.

End Notes:

Sometimes when activating links from this PDF document, the linked document is created as a PDF. You may wish to copy the link into a browser for better exploitation of the site.

This document and older version are posted:
https://hddsexplorer.usgs.gov/data/list/disaster/201708_Hurricane_Harvey/docs_misc/Data_Sources