AL092021_windswath

Shapefile

Tags

Wind Swath, Caribbean Sea, Eastern North Pacific Basin, Subtropical depression, Gulf of Mexico, Hurricane Track, Subtropical storm, Tropical low, Tropical Storm, Hurricane, Tropical cyclone, North Atlantic Basin, Major hurricane, Wind Radii, Tropical Wave, Tropical disturbance, United States, Extratropical storm, Pacific Islands, Atlantic, Subtropical cyclone

Summary

The working best track wind swath shows how the size of the storm has changed and the areas potentially affected so far by sustained winds of tropical storm force (34 Knot), 50 knot and hurricane force (64 knot) from a tropical cyclone. These data are based on the wind radii contained in the Automated Tropical Cyclone Forecasting (ATCF) system's working best track. Users are reminded that the best track wind radii represent the maximum possible extent of a given wind speed within particular quadrants around the tropical cyclone. As a result, not all locations falling within the swaths will have experienced the indicated sustained wind speeds. These data are intended for geographic display and analysis at the national level and for large regional areas. The data should be displayed and analyzed at scales appropriate for 1:2,000,000-scale data. No responsibility is assumed by the National Oceanic and Atmospheric Administration in the use of these data.

Description

The working best track wind swath is created by accumulating the best track wind radii over the course of an ongoing tropical cyclone. The working best track wind swath will generally not exactly match the radii contained in the tropical cyclone advisories. This is because all of the data in a working best track are subject to modification during the life cycle of the the cyclone. (Note: The "working best track" represents the forecasters' best estimates of the location, intensity, and size of a tropical cyclone while the cyclone is ongoing. After the life cycle is complete, forecasters prepare a "final best track", using data that might not have been available operationally, and it is the final best track that represents NHC's official historical record for the cyclone.)

Credits

There are no credits for this item.

Use limitations

None. Acknowledgement of the National Oceanic and Atmospheric Administration, National Weather Service, National Centers for Environmental Prediction or the National Hurricane Center would be appreciated in products derived from these data.

Extent

West	-92.094635	**East**	-77.267526
North	32.586834	**South**	17.392434

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE climatologyMeteorologyAtmosphere, oceans

CONTENT TYPE Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS Caribbean Sea, Eastern North Pacific Basin, Gulf of Mexico, North Atlantic Basin, United States, Pacific Islands, Atlantic

THEME KEYWORDS Wind Swath, Subtropical depression, Hurricane Track, Subtropical storm, Tropical low, Tropical Storm, Hurricane, Tropical cyclone, Major hurricane, Wind Radii, Tropical Wave, Tropical disturbance, Extratropical storm, Subtropical cyclone

Hide Topics and Keywords ▲

Citation ▶

TITLE AL092021_windswath
PUBLICATION DATE 2021-08-30   00:00:00

PRESENTATION FORMATS digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

Hide Citation ▲

Citation Contacts ▶

RESPONSIBLE PARTY
ORGANIZATION'S NAME National Hurricane Center
CONTACT'S ROLE originator

Hide Citation Contacts ▲

Resource Details ▶

DATASET LANGUAGES English (UNITED STATES)

STATUS completed
SPATIAL REPRESENTATION TYPE vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

ARCGIS ITEM PROPERTIES
* NAME HurrIda_Windswath_2021
* SIZE 0.063
* LOCATION file://\\DESKTOP-
TP9LNVL\F$\DATA\00_CLIMATE_WEATHER\Ida_2021\HurrIda_Windswath_2021.shp

    * ACCESS PROTOCOL   Local Area Network

Hide Resource Details ▲

Extents ▶

EXTENT
  GEOGRAPHIC EXTENT
    BOUNDING RECTANGLE
      WEST LONGITUDE   -140
      EAST LONGITUDE   0
      SOUTH LATITUDE   0
      NORTH LATITUDE   60

EXTENT
  GEOGRAPHIC EXTENT
    BOUNDING RECTANGLE
      EXTENT TYPE   Extent used for searching
     * WEST LONGITUDE   -92.094635
     * EAST LONGITUDE   -77.267526
     * NORTH LATITUDE   32.586834
     * SOUTH LATITUDE   17.392434
     * EXTENT CONTAINS THE RESOURCE   Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
  * WEST LONGITUDE   279827.972585
  * EAST LONGITUDE   1683870.696808
  * SOUTH LATITUDE   -338738.429112
  * NORTH LATITUDE   1309628.024805
  * EXTENT CONTAINS THE RESOURCE   Yes

Hide Extents ▲

Resource Points of Contact ▶

POINT OF CONTACT
  INDIVIDUAL'S NAME   GIS POC
  ORGANIZATION'S NAME   National Hurricane Center / Technical Support Branch
  CONTACT'S ROLE   point of contact

    CONTACT INFORMATION   ▶
     ADDRESS
      TYPE   physical
      DELIVERY POINT   11691 SW 17th St.
      CITY   Miami
      ADMINISTRATIVE AREA   FL
      POSTAL CODE   33165
      COUNTRY   US

     Hide Contact information ▲

Hide Resource Points of Contact ▲

Resource Maintenance ▶

RESOURCE MAINTENANCE
UPDATE FREQUENCY   not planned

Hide Resource Maintenance ▲

Resource Constraints ▶

LEGAL CONSTRAINTS
LIMITATIONS OF USE
No responsibility is assumed by the National Oceanic and Atmospheric Administration in the use of these data.

CONSTRAINTS
LIMITATIONS OF USE

None. Acknowledgement of the National Oceanic and Atmospheric Administration, National Weather Service, National Centers for Environmental Prediction or the National Hurricane Center would be appreciated in products derived from these data.

Hide Resource Constraints ▲

Spatial Reference ▶

ARCGIS COORDINATE SYSTEM
* TYPE   Projected
* GEOGRAPHIC COORDINATE REFERENCE   GCS_North_American_1983
* PROJECTION   NAD_1983_Mississippi_TM
* COORDINATE REFERENCE DETAILS
PROJECTED COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER   102609
X ORIGIN   -5122200
Y ORIGIN   -12297100
XY SCALE   450339697.45066422
Z ORIGIN   -100000
Z SCALE   10000
M ORIGIN   -100000
M SCALE   10000
XY TOLERANCE   0.001
Z TOLERANCE   0.001
M TOLERANCE   0.001
HIGH PRECISION   true
LATEST WELL-KNOWN IDENTIFIER   3814
WELL-KNOWN TEXT
PROJCS["NAD_1983_Mississippi_TM",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",500000.0],PARAMETER["False_Northing",1300000.0],PARAMETER["Central_Meridian",-89.75],PARAMETER["Scale_Factor",0.9998335],PARAMETER["Latitude_Of_Origin",32.5],UNIT["Meter",1.0],AUTHORITY["EPSG",3814]]

REFERENCE SYSTEM IDENTIFIER

* VALUE   3814
 * CODESPACE   EPSG
 * VERSION   6.17.1(10.0.0)

Hide Spatial Reference ▲

Spatial Data Properties ▶

VECTOR   ▶
 * LEVEL OF TOPOLOGY FOR THIS DATASET   geometry only

GEOMETRIC OBJECTS
  FEATURE CLASS NAME   HurrIda_Windswath_2021
  * OBJECT TYPE   composite
  * OBJECT COUNT   5

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES   ▶
  FEATURE CLASS NAME   HurrIda_Windswath_2021
  * FEATURE TYPE   Simple
  * GEOMETRY TYPE   Polygon
  * HAS TOPOLOGY   FALSE
  * FEATURE COUNT   5
  * SPATIAL INDEX   TRUE
  * LINEAR REFERENCING   FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Distribution ▶

DISTRIBUTION FORMAT
  * NAME   Shapefile
  VERSION   10.8.1

TRANSFER OPTIONS
  * TRANSFER SIZE   0.063

ONLINE SOURCE
  LOCATION   http://www.nhc.noaa.gov/gis

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT HurrIda_Windswath_2021   ▶
  * TYPE   Feature Class

* Row count   5

Field FID ▶
  * Alias   FID
  * Data type   OID
  * Width   4
  * Precision   0
  * Scale   0
  Field description
    Internal feature number.

  Description source
    ESRI

  Description of values
    Sequential unique whole numbers that are automatically generated.

  Hide Field FID ▲

Field Shape ▶
  * Alias   Shape
  * Data type   Geometry
  * Width   0
  * Precision   0
  * Scale   0
  Field description
    Feature geometry.

  Description source
    ESRI

  Description of values
    Coordinates defining the features.

  Hide Field Shape ▲

Field RADII ▶
  * Alias   RADII
  * Data type   Double
  * Width   19
  * Precision   0
  * Scale   0
  Field description
    The wind speed in knots associated with the bounding polygon.

  Description source
    National Hurricane Center

LIST OF VALUES
VALUE   34
DESCRIPTION   34 Knot- Tropical Storm Force Wind Radii

VALUE   50
DESCRIPTION   50 Knot - 50 Knot Wind Radii

VALUE   64
DESCRIPTION   64 Knot - Hurricane Force Wind Radii

Hide Field RADII ▲

FIELD STORMID ▶
* ALIAS   STORMID
* DATA TYPE   String
* WIDTH   50
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    A unique character string that is specific to each tropical cyclone.
    The string follows the pattern BBNNYYYY, where BB is AL for Atlantic, EP for East Pacific,
    and CP for Central Pacific; NN is the sequential number of the storm during the season;
    and YYYY is the year.

DESCRIPTION SOURCE
    National Hurricane Center

Hide Field STORMID ▲

FIELD BASIN ▶
* ALIAS   BASIN
* DATA TYPE   String
* WIDTH   50
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    The ocean where the tropical cyclone is located

DESCRIPTION SOURCE
    National Hurricane Center

LIST OF VALUES
VALUE   AL
DESCRIPTION   Atlantic

VALUE   EP
DESCRIPTION   East Pacific

Hide Field BASIN ▲

FIELD STORMNUM ▶
  * ALIAS   STORMNUM
  * DATA TYPE   Double
  * WIDTH   19
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    The sequential number of the tropical cyclone for a particular BASIN according
    to the time that the first advisory is issued.

  DESCRIPTION SOURCE
    National Hurricane Center

  Hide Field STORMNUM ▲

FIELD ADVNUM ▶
  * ALIAS   ADVNUM
  * DATA TYPE   String
  * WIDTH   50
  * PRECISION   0
  * SCALE   0
  DESCRIPTION SOURCE
    National Hurricane Center

  Hide Field ADVNUM ▲

FIELD STARTDTG ▶
  * ALIAS   STARTDTG
  * DATA TYPE   String
  * WIDTH   50
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    The time and date at which a tropical cyclone first has winds of at least
    tropical storm force. This is the date and time at the beginning of the wind swath.

  DESCRIPTION SOURCE
    National Hurricane Center

  Hide Field STARTDTG ▲

FIELD ENDDTG ▶
  * ALIAS   ENDDTG
  * DATA TYPE   String
  * WIDTH   50

* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    The time and date of the latest advisory for tropical cyclones that are
    still active. For tropical cyclones that no longer exist, ENDDTG is the time and date
    in the best track when the system was last designated as a tropical cyclone.

DESCRIPTION SOURCE
    National Hurricane Center

Hide Field ENDDTG ▲

Hide Details for object HurrIda_Windswath_2021 ▲

Hide Fields ▲

Metadata Details ►

METADATA LANGUAGE   English (UNITED STATES)
METADATA CHARACTER SET   utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA   dataset
SCOPE NAME   * dataset

* LAST UPDATE   2022-02-03

ARCGIS METADATA PROPERTIES
  METADATA FORMAT   ArcGIS 1.0
  METADATA STYLE   ISO 19139 Metadata Implementation Specification
  STANDARD OR PROFILE USED TO EDIT METADATA   ISO19139

  CREATED IN ARCGIS FOR THE ITEM   2022-02-02   13:39:42
  LAST MODIFIED IN ARCGIS FOR THE ITEM   2022-02-03   10:00:00

  AUTOMATIC UPDATES
    HAVE BEEN PERFORMED   Yes
    LAST UPDATE   2022-02-03   09:58:04

Hide Metadata Details ▲

Metadata Contacts ►

METADATA CONTACT
  INDIVIDUAL'S NAME   GIS POC
  ORGANIZATION'S NAME   National Hurricane Center
  CONTACT'S POSITION   Technical Support Branch
  CONTACT'S ROLE   point of contact

  CONTACT INFORMATION   ►
    PHONE
      VOICE   305-229-4400

ADDRESS
TYPE physical
DELIVERY POINT 11691 SW 17th St.
CITY Miami
ADMINISTRATIVE AREA FL
POSTAL CODE 33178
COUNTRY US

Hide Contact information ▲

Hide Metadata Contacts ▲

Thumbnail and Enclosures ►

THUMBNAIL
THUMBNAIL TYPE JPG

ENCLOSURE
ENCLOSURE TYPE File
DESCRIPTION OF ENCLOSURE original metadata
ORIGINAL METADATA DOCUMENT, WHICH WAS TRANSLATED yes
SOURCE METADATA FORMAT fgdc

Hide Thumbnail and Enclosures ▲

FGDC Metadata (read-only) ▼

CITATION
CITATION INFORMATION
ORIGINATOR National Hurricane Center
PUBLICATION DATE August 30, 2021
TITLE
AL092021_windswath
GEOSPATIAL DATA PRESENTATION FORM vector digital data
ONLINE LINKAGE http://www.nhc.noaa.gov/gis

DESCRIPTION
ABSTRACT
The working best track wind swath is created by accumulating the best track wind radii
over the course of an ongoing tropical cyclone. The working best track wind swath will
generally
not exactly match the radii contained in the tropical cyclone advisories. This is
because all
of the data in a working best track are subject to modification during the life cycle of
the
the cyclone.

(Note: The "working best track" represents the forecasters' best estimates of the
location, intensity, and size of a tropical cyclone while the cyclone is ongoing. After
the
life cycle is complete, forecasters prepare a "final best track", using data that might
not
have been available operationally, and it is the final best track that represents NHC's
official

historical record for the cyclone.)

PURPOSE

The working best track wind swath shows how the size of the storm has changed and
the areas potentially affected so far by sustained winds of tropical storm force
(34 Knot), 50 knot and hurricane force (64 knot) from a tropical cyclone. These data
are
based on the wind radii contained in the Automated Tropical Cyclone Forecasting
(ATCF) system's
working best track. Users are reminded that the best track wind radii represent the
maximum
possible extent of a given wind speed within particular quadrants around the tropical
cyclone.
As a result, not all locations falling within the swaths will have experienced the
indicated
sustained wind speeds.

These data are intended for geographic display and analysis at the national level and
for large
regional areas. The data should be displayed and analyzed at scales appropriate for
1:2,000,000-scale data. No responsibility is assumed by the National Oceanic and
Atmospheric
Administration in the use of these data.

TIME PERIOD OF CONTENT
TIME PERIOD INFORMATION
SINGLE DATE/TIME
CALENDAR DATE   August 30, 2021
STATUS
PROGRESS   Complete
MAINTENANCE AND UPDATE FREQUENCY   None planned

SPATIAL DOMAIN
BOUNDING COORDINATES
WEST BOUNDING COORDINATE   -140.0
EAST BOUNDING COORDINATE   0.0
NORTH BOUNDING COORDINATE   60.0
SOUTH BOUNDING COORDINATE   0.0

KEYWORDS
THEME
THEME KEYWORD THESAURUS   None
THEME KEYWORD   Wind Radii
THEME KEYWORD   Wind Swath
THEME KEYWORD   Hurricane
THEME KEYWORD   Hurricane Track
THEME KEYWORD   Tropical Storm
THEME KEYWORD   Subtropical storm
THEME KEYWORD   Subtropical depression
THEME KEYWORD   Tropical disturbance
THEME KEYWORD   Tropical Wave
THEME KEYWORD   Tropical low
THEME KEYWORD   Extratropical storm
THEME KEYWORD   Major hurricane
THEME KEYWORD   Tropical cyclone
THEME KEYWORD   Subtropical cyclone

PLACE
PLACE KEYWORD THESAURUS   None

PLACE KEYWORD   United States
PLACE KEYWORD   Atlantic
PLACE KEYWORD   North Atlantic Basin
PLACE KEYWORD   Gulf of Mexico
PLACE KEYWORD   Caribbean Sea
PLACE KEYWORD   Pacific Islands
PLACE KEYWORD   Eastern North Pacific Basin

ACCESS CONSTRAINTS
None
USE CONSTRAINTS
None. Acknowledgement of the National Oceanic and Atmospheric Administration,
National Weather Service, National Centers for Environmental Prediction or the
National Hurricane Center would be appreciated in products derived from these data.
POINT OF CONTACT
CONTACT INFORMATION
CONTACT PERSON PRIMARY
CONTACT PERSON   GIS POC
CONTACT ORGANIZATION   National Hurricane Center / Technical Support Branch
CONTACT ADDRESS
ADDRESS TYPE   physical address
ADDRESS   11691 SW 17th St.
CITY   Miami
STATE OR PROVINCE   FL
POSTAL CODE   33165
COUNTRY   UNITED STATES

Hide Identification ▲
HORIZONTAL COORDINATE SYSTEM DEFINITION
GEODETIC MODEL
HORIZONTAL DATUM NAME   D_Sphere
ELLIPSOID NAME   Sphere
SEMI-MAJOR AXIS   6371200.000000
DENOMINATOR OF FLATTENING RATIO   infinity

Hide Spatial Reference ▲
DETAILED DESCRIPTION
ENTITY TYPE
ENTITY TYPE LABEL   HurrIda_Windswath_2021

ATTRIBUTE
ATTRIBUTE LABEL   FID
ATTRIBUTE DEFINITION
Internal feature number.
ATTRIBUTE DEFINITION SOURCE   ESRI
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Sequential unique whole numbers that are automatically generated.

ATTRIBUTE
ATTRIBUTE LABEL   Shape
ATTRIBUTE DEFINITION
Feature geometry.
ATTRIBUTE DEFINITION SOURCE   ESRI
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN

Coordinates defining the features.

ATTRIBUTE
ATTRIBUTE LABEL   RADII
ATTRIBUTE DEFINITION
The wind speed in knots associated with the bounding polygon.
ATTRIBUTE DEFINITION SOURCE   National Hurricane Center
ATTRIBUTE DOMAIN VALUES
ENUMERATED DOMAIN
ENUMERATED DOMAIN VALUE   34
ENUMERATED DOMAIN VALUE DEFINITION
34 Knot- Tropical Storm Force Wind Radii
ENUMERATED DOMAIN
ENUMERATED DOMAIN VALUE   50
ENUMERATED DOMAIN VALUE DEFINITION
50 Knot - 50 Knot Wind Radii
ENUMERATED DOMAIN
ENUMERATED DOMAIN VALUE   64
ENUMERATED DOMAIN VALUE DEFINITION
64 Knot - Hurricane Force Wind Radii

ATTRIBUTE
ATTRIBUTE LABEL   STORMID
ATTRIBUTE DEFINITION
A unique character string that is specific to each tropical cyclone. The string follows the pattern BBNNYYYY, where BB is AL for Atlantic, EP for East Pacific, and CP for Central Pacific; NN is the sequential number of the storm during the season; and YYYY is the year.
ATTRIBUTE DEFINITION SOURCE   National Hurricane Center

ATTRIBUTE
ATTRIBUTE LABEL   BASIN
ATTRIBUTE DEFINITION
The ocean where the tropical cyclone is located
ATTRIBUTE DEFINITION SOURCE   National Hurricane Center
ATTRIBUTE DOMAIN VALUES
ENUMERATED DOMAIN
ENUMERATED DOMAIN VALUE   AL
ENUMERATED DOMAIN VALUE DEFINITION
Atlantic
ENUMERATED DOMAIN
ENUMERATED DOMAIN VALUE   EP
ENUMERATED DOMAIN VALUE DEFINITION
East Pacific

ATTRIBUTE
ATTRIBUTE LABEL   STORMNUM
ATTRIBUTE DEFINITION
The sequential number of the tropical cyclone for a particular BASIN according to the time that the first advisory is issued.
ATTRIBUTE DEFINITION SOURCE   National Hurricane Center

ATTRIBUTE
ATTRIBUTE LABEL   ADVNUM
ATTRIBUTE DEFINITION SOURCE   National Hurricane Center

ATTRIBUTE
ATTRIBUTE LABEL   STARTDTG

ATTRIBUTE DEFINITION
The time and date at which a tropical cyclone first has winds of at least tropical storm force. This is the date and time at the beginning of the wind swath.
ATTRIBUTE DEFINITION SOURCE   National Hurricane Center

ATTRIBUTE
ATTRIBUTE LABEL   ENDDTG
ATTRIBUTE DEFINITION
The time and date of the latest advisory for tropical cyclones that are still active. For tropical cyclones that no longer exist, ENDDTG is the time and date in the best track when the system was last designated as a tropical cyclone.
ATTRIBUTE DEFINITION SOURCE   National Hurricane Center

Hide Entities and Attributes ▲
RESOURCE DESCRIPTION   Downloadable Data
DISTRIBUTION LIABILITY
No responsibility is assumed by the National Oceanic and Atmospheric Administration in the use of these data.

Hide Distribution Information ▲
METADATA DATE   August 30, 2021
METADATA CONTACT
CONTACT INFORMATION
CONTACT ORGANIZATION PRIMARY
CONTACT ORGANIZATION   National Hurricane Center
CONTACT PERSON   GIS POC
CONTACT POSITION   Technical Support Branch
CONTACT ADDRESS
ADDRESS TYPE   physical address
ADDRESS   11691 SW 17th St.
CITY   Miami
STATE OR PROVINCE   FL
POSTAL CODE   33178
COUNTRY   UNITED STATES

CONTACT VOICE TELEPHONE   305-229-4400

METADATA STANDARD NAME   FGDC Content Standards for Digital Geospatial Metadata
METADATA STANDARD VERSION   FGDC-STD-001-1998
METADATA TIME CONVENTION   local time

METADATA EXTENSIONS
ONLINE LINKAGE   http://www.esri.com/metadata/esriprof80.html
PROFILE NAME   ESRI Metadata Profile

Hide Metadata Reference ▲