HurrIda_Radii_2021

Shapefile

Tags

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

Summary

The working best track wind radii 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 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 radii 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 radii are the farthest extent from the center of 34-, 50-, and 64-knot winds in each quadrant over the life of a tropical cyclone. The working best track wind radii 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 ofthe 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

National Hurricane Center

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	-92.394105	**East**	-76.962999
North	32.336112	**South**	17.442291

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

Hide Topics and Keywords ▲

Citation ►

* TITLE HurrIda_Radii_2021
PUBLICATION DATE 2021-08-30 00:00:00

PRESENTATION FORMATS * digital map

Hide Citation ▲

Resource Details ►

DATASET LANGUAGES * English (UNITED STATES)

SPATIAL REPRESENTATION TYPE * vector

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

CREDITS
National Hurricane Center

ARCGIS ITEM PROPERTIES
* NAME HurrIda_Radii_2021
* SIZE 0.223
* LOCATION file://\\DESKTOP-TP9LNVL\F$\DATA\00_CLIMATE_WEATHER\Ida_2021\HurrIda_Radii_2021.shp
* ACCESS PROTOCOL Local Area Network

Hide Resource Details ▲

Extents ►

EXTENT
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
* WEST LONGITUDE -92.394105
* EAST LONGITUDE -76.962999
* NORTH LATITUDE 32.336112
* SOUTH LATITUDE 17.442291

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE 250993.436385
* EAST LONGITUDE 1716700.535972
* SOUTH LATITUDE -331159.847926
* NORTH LATITUDE 1281828.781218
* EXTENT CONTAINS THE RESOURCE Yes

Hide Extents ▲

Resource Constraints ►

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_Radii_2021
* OBJECT TYPE composite
* OBJECT COUNT 40

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►
FEATURE CLASS NAME HurrIda_Radii_2021
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 40
* 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 0.223

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT HurrIda_Radii_2021 ►
* TYPE Feature Class
* ROW COUNT 40

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 Double
* WIDTH 19
* PRECISION 0
* SCALE 0

DESCRIPTION SOURCE

National Hurricane Center

Hide Field ADVNUM ▲

FIELD SYNOPTIME ►

* ALIAS SYNOPTIME
* DATA TYPE String
* WIDTH 50
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Initial time in the forecast cycle in which a tropical cyclone□s intensity and size are analyzed, occurring at 0000, 0600, 1200, or 1800 UTC.

DESCRIPTION SOURCE

National Hurricane Center

Hide Field SYNOPTIME ▲

FIELD TIMEZONE ►

* ALIAS TIMEZONE
* DATA TYPE String
* WIDTH 50
* PRECISION 0
* SCALE 0

DESCRIPTION SOURCE

National Hurricane Center

Hide Field TIMEZONE ▲

FIELD NE ►
* ALIAS NE
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

The largest distance of wind speed in Nautical Miles in the NE (0 - 90 degree) quadrant.

DESCRIPTION SOURCE

National Hurricane Center

Hide Field NE ▲

FIELD SE ►
* ALIAS SE
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

The largest distance of wind speed in Nautical Miles in the SE (90 - 180 degree) quadrant.

DESCRIPTION SOURCE

National Hurricane Center

Hide Field SE ▲

FIELD SW ►
* ALIAS SW
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

The largest distance of wind speed in Nautical Miles in the SW (180 - 270 degree) quadrant.

DESCRIPTION SOURCE

National Hurricane Center

Hide Field SW ▲

FIELD NW ►
* ALIAS NW
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
The largest distance of wind speed in Nautical Miles in the NW (270 - 360 degree) quadrant.

DESCRIPTION SOURCE
National Hurricane Center

Hide Field NW ▲

Hide Details for object HurrIda_Radii_2021 ▲

Hide Fields ▲

Metadata Details ►

* METADATA LANGUAGE English (UNITED STATES)
* METADATA CHARACTER SET 8859part1 - Latin alphabet No. 1

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 13:42:47
LAST MODIFIED IN ARCGIS FOR THE ITEM 2022-02-03 95:64:10

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2022-02-03 09:50:44

Hide Metadata Details ▲

Metadata Contacts ►

METADATA CONTACT
INDIVIDUAL'S NAME GIS POC
ORGANIZATION'S NAME National Hurricane Center/ Technical Support Brnch
CONTACT'S POSITION Tech Support

CONTACT'S ROLE resource provider

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 Metadata Contacts ▲

Thumbnail and Enclosures ▶

THUMBNAIL
THUMBNAIL TYPE JPG

Hide Thumbnail and Enclosures ▲

FGDC Metadata (read-only) ▼

CITATION
CITATION INFORMATION
ORIGINATOR National Hurricane Center
PUBLICATION DATE August 30, 2021
TITLE
HurrIda_Radii_2021
GEOSPATIAL DATA PRESENTATION FORM vector digital data
ONLINE LINKAGE http://www.nhc.noaa.gov/gis

DESCRIPTION
ABSTRACT
The working best track wind radii are the farthest extent from the center of 34-, 50-, and 64-knot winds in each quadrant over the life of a tropical cyclone. The working best track wind radii 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 ofthe 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 radii 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 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 radii will have experienced the indicated sustained wind speeds.

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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_Radii_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 SYNOPTIME
ATTRIBUTE DEFINITION
Initial time in the forecast cycle in which a tropical cyclone□s intensity and size are analyzed, occurring at 0000, 0600, 1200, or 1800 UTC.
ATTRIBUTE DEFINITION SOURCE National Hurricane Center

ATTRIBUTE
ATTRIBUTE LABEL TIMEZONE
ATTRIBUTE DEFINITION SOURCE National Hurricane Center

ATTRIBUTE
ATTRIBUTE LABEL NE
ATTRIBUTE DEFINITION
The largest distance of wind speed in Nautical Miles in the NE (0 - 90 degree) quadrant.
ATTRIBUTE DEFINITION SOURCE National Hurricane Center

ATTRIBUTE

ATTRIBUTE LABEL SE

ATTRIBUTE DEFINITION

The largest distance of wind speed in Nautical Miles in the SE (90 - 180 degree) quadrant.

ATTRIBUTE DEFINITION SOURCE National Hurricane Center

ATTRIBUTE

ATTRIBUTE LABEL SW

ATTRIBUTE DEFINITION

The largest distance of wind speed in Nautical Miles in the SW (180 - 270 degree) quadrant.

ATTRIBUTE DEFINITION SOURCE National Hurricane Center

ATTRIBUTE

ATTRIBUTE LABEL NW

ATTRIBUTE DEFINITION

The largest distance of wind speed in Nautical Miles in the NW (270 - 360 degree) quadrant.

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 ▲