WeatherStrike

"Severe" and "Significant Severe" Weather Data (Hail, Wind, & Tornado) documented by the NOAA/National Weather Service for the Continental US, Alaska & Hawaii

WeatherStrike Forensic Report

Property Name / ID	NASA LRC / A0001
Property Address	1 Nasa Drive, Hampton, VA 23666
NWS Forecast Zone	Hampton/Poquoson
Latitude, Longitude	37.086333, -76.380834

Hail & Wind Report Summary Sheet

11/1/2016 through 10/31/2019

Property Name / ID NASA LRC / A0001
Property Address 1 Nasa Drive, Hampton, VA 23666
NWS Forecast Zone Hampton/Poquoson
Latitude, Longitude 37.086333, -76.380834

Hail
T-storm Wind
Tornado

Maximum Hail Sizes, and Maximum Storm & Tornado Wind Speeds

Storm Events Dates		SWDI (Radar) SED (Ground)	< 1 Mile	< 2 Miles	< 3 Miles	< 4 Miles	< 5 Miles	< 6 Miles	< 10 Miles
#1	2/25/2017	SWDI Hail†	—	2” (100%)	3” (100%)	1.75” (100%)	—	n/a	n/a
		SED Hail	1”	—	—	1”	1”	n/a	n/a
#2	5/31/2017	SWDI Hail†	—	—	—	—	2” (100%)	n/a	n/a
		SED Hail	—	—	1”	—	1”	n/a	n/a
		SED Wind	60 mph	—	—	58 mph	—	—	—
#3	5/14/2018	SED Wind	—	—	—	—	58 mph	—	—
#4	7/22/2018	SED Wind	—	—	—	—	—	58 mph	—
#5	7/27/2018	SWDI Hail†	—	1.5” (50%)	—	—	—	n/a	n/a
#6	4/15/2019	SED Wind	—	—	—	58 mph	71 mph	58 mph	—
#7	4/19/2019	SED Wind	—	—	—	60 mph	—	58 mph	—
		SED Tornado	—	—	—	—	—	—	EF0 (65–85 mph)
#8	5/31/2019	SED Wind	—	—	—	—	—	58 mph	—
#9	7/11/2019	SED Wind	—	—	—	58 mph	—	—	—
#10	8/4/2019	SED Wind	—	—	—	—	—	58 mph	—
#11	8/7/2019	SED Wind	—	—	—	—	58 mph	—	—
#12	8/13/2019	SED Wind	—	—	—	—	—	58 mph	—

†Note: SWDI Hail percentages are Probabilities of Large Hail (0.75" min.) at the Surface.

Report Parameters

Date Range	11/1/2016 through 10/31/2019	
SED - Hail (Ground Truth)	Minimum Size: **0.75"**	| Maximum Distance: **5 mi. R**
SWDI - Hail (Radar)	Minimum Size: **1"**	| Maximum Distance: **5 mi. R**
SED - Thunderstorm Wind (Ground Truth)	Minimum Wind Speed: **50 mph**	| Maximum Distance: **10 mi. R**
SED - Tornado (Ground Truth)	Maximum Distance: **10 mi. R**	

From NOAA Weather Site

"With the mission to protect property, and enhance the United States' economy, ***NOAA's National Weather Service*** *is the sole official voice of the U.S. government for issuing warnings during life-threatening weather situations."*

The **NWS** defines:

A **"Severe"** thunderstorm as any storm that produces one or more of the following elements: A tornado, damaging winds over 50 knots (58 mph), and/or 1" diameter or larger hail.

A **"Significant Severe"** thunderstorm as any storm that produces one or more of the following elements: A EF2 tornado or greater, wind speeds of 65 knots (75 mph) or greater and/or 2" diameter or larger hail.

Since hail is formed in a thunderstorm, hail and high winds typically occur during the same storm event.

The **Storm Events Database (SED)** contains the records used to create the official **NOAA Storm Data Publication**, documenting the occurrence of storms and other significant weather phenomena having sufficient intensity to cause loss of life, injuries, significant property damage, and/or disruption to commerce. It includes rare, unusual weather phenomena that generate media attention, such as snow flurries in South Florida or the San Diego coastal area; and other significant meteorological events, such as record maximum or minimum temperatures or precipitation that occur in connection with another event. The data contained in the **SED** are observed occurrences only, and reported through channels to the **National Weather Service**. The lack of a report in the **SED** does not mean a specific weather event did not occur. It only means that it wasn't observed and reported through government channels.

The **Severe Weather Data Inventory (SWDI)** includes information critical to the detection and evaluation of severe weather derived from radar, such as features related to general storm structure, hail, tornadic events, tornadoes, preliminary and verified reports of storm damage, and **National Weather Service Warning** areas. The data included in the **SWDI** comes only from the network of **NEXRAD** and **Terminal Doppler Weather Radars** across the country, and are part of the national **NOAA** network.

Abbreviations Used in this Report

Symbol	Description	Conversion
”	inch	1” = 2.54 cm
mi.	mile	1 mi. = 1.60934 km
mph	miles per hour	1 mph = 1.60934 kmh = 0.44704 m/s
R	radius	

Disclaimer:

WeatherStrike accumulates and compiles reporting data from various sources including, but not limited to: **National Weather Services (NWS), Storm Prediction Center (SPC), and National Centers for Environmental Information (NCEI).** This report and the reports we provide represent the most accurate approximation for storm activity based upon such resources. Although extra steps have been taken to ensure the accuracy of these reports, the data used in our products are directly from the **National Weather Service (NWS)** and have undergone Federal Quality Control Standards. There may be omissions of data due to the collection procedures of the **NWS**.