

Global Hawk #872 10/05/16 - 10/06/16

Aircraft: [Global Hawk - AFRC #872](#) (See full schedule)

Flight Number: 872-0177

Payload Configuration: NOAA SHOUT HRR

Nav Data Collected: Yes

Total Flight Time: 24.7 hours

Submitted by: Frank Cutler on 10/06/16

Flight Segments:

From:	KEDW	To:	KEDW
Start:	10/05/16 02:56 Z	Finish:	10/06/16 03:41 Z
Flight Time:	24.7 hours		
Log Number:	17H006	PI:	Gary Wick
Funding Source:	Robbie Hood - NOAA - UAS Program Manager		
Purpose of Flight:	Science		
Comments:	<p>Atmospheric sampling in Gulf and north/northeast of hurricane Matthew. 62 sondes released. SHOUT 2016 Hurricane Rapid Response Launches Global Hawk Towards Hurricane Matthew NOAA UAS Program coordinates Science Flight #7 from NASA Armstrong, CA. Following a 9.7 hour reposition flight from NASA Wallops, VA to NASA Armstrong, CA on September 28th, NOAA's UAS Program re-established the SHOUT Hurricane Rapid Response posture to support Hurricane Matthew operations. With 48 hours notice, the team launched NASA's Global Hawk at 1956 PDT October 4th for seventh science flight of the SHOUT 2016 campaign towards Hurricane Matthew. Of note, SHOUT HRR continued to minimized the number of deployed personnel and took advantage of having Global Hawk Operation Centers (GHOC) at both East and West Coast sites. For the Hurricane Matthew events, the flight crew are all located at the Armstrong where they are typically based while the payload personnel and science teams are conducting their operations from Wallops or remotely. This has greatly increased operational flexibility while decreasing costs. According to the National Hurricane Center (NHC) at 1700 EDT October 4th, "When a hurricane is forecast to take a track roughly parallel to a coastline, as Matthew is forecast to do from Florida through South Carolina, it becomes very difficult to estimate impacts this far in advance. For example, only a small deviation of the track to the left of the NHC forecast could bring the core of a major hurricane onshore, while a small deviation to the right could keep all of the hurricane-force winds offshore. It will likely take another day or so for the potential impacts of Matthew in the United States to clarify." On October 5th, the Global Hawk will be collecting data East of Florida in close support with the manned aircraft in the vicinity to be used by the NHC. -- John "JC" Coffey Cherokee Nation Company supporting: NOAA UAS Program Office National Oceanic and Atmospheric Administration SSMC3/ OAR-R/ Room 11100 1315 East West Highway Silver Spring, MD 20910 Email: John.J.Coffey@noaa.gov Office Telephone: 301-734-1104 Cell Telephone: 904-923-1709</p>		

Flight Hour Summary:

	16H004	17H006
Flight Hours Approved in SOFRS	220	
Flight Hours Previously Approved		54
Total Used	166	73.2
Total Remaining		-19.2

17H006 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
10/05/16 - 10/06/16	872-0177	Science	24.7	24.7	29.3	
10/07/16 - 10/08/16	872-0178	Science	23.7	48.4	5.6	
10/09/16 - 10/10/16	872-0179	Science	24.8	73.2	-19.2	

Source URL: https://airbornescience.nasa.gov/flight_reports/Global_Hawk_872_10_05_16_-_10_06_16#comment-0

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

16H004 Flight Reports						
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
07/27/16	872-0168	Check	4.9	4.9	215.1	
08/19/16	872-0169	Ferry	10.3	15.2	204.8	
08/24/16 - 08/25/16	872-0170	Science	23.9	39.1	180.9	
08/26/16 - 08/27/16	872-0171	Science	23.8	62.9	157.1	
08/29/16 - 08/30/16	872-0172	Science	23.8	86.7	133.3	
09/01/16 - 09/02/16	872-0173	Science	22.8	109.5	110.5	
09/22/16 - 09/23/16	872-0174	Science	24	133.5	86.5	
09/24/16 - 09/25/16	872-0175	Science	22.8	156.3	63.7	
09/28/16	872-0176	Ferry	9.7	166	54	