Lead Project Scientist

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Storm	or P	roject HARVEY (ALOY) Experiment type TDR
Flight	ID _	20170824H2 Mission ID 1309A
Preflig	ht	이 경찰을 열 한 것은 경험을 통해 있는 것이 같은 것이 잘 감독하는 것이 가지 않는 것이 많이 있는 것이다.
	1.	Participate in general mission briefing.
	2.	Determine specific mission and flight requirements for assigned aircraft from the Field Program Director.
	3.	 Contact HRD members of crew to: a. Assure availability for mission. b. Review field program safety checklist c. Arrange ground transportation schedule when deployed. d. Determine equipment status.
	4.	Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
	5.	Determine from AOC flight director the mission designation and whether aircraft has operational fix responsibility.
	6.	Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.
	7.	Report status of aircraft, systems, necessary on-board supplies and crews to Field Program Director.
1.34	8.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drops.
······	9.	Make sure each HRD flight crew member has a life vest.
	10.	Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.
n-Flig	ht	and the second secon
	1.	Confirm from AOC flight director that satellite data link is operative (information).
	2.	Confirm camera mode of operation.
	3.	Confirm data recording rate.
	4.	Request AOC flight director to leave radar in non-sector mode for initial Figure 4.
· · ·	5.	Once at IP, request AOC flight director adjust radar tilt to minimize sea clutter.
	6.	Complete Lead Project Scientist Form.
<u>.</u>	7	Check in occasionaly with the flight director to make sure the mission is going as planned (i.e. turns are made when they are supposed to be made).
ost fli	ght	
	1.	Debrief scientific crew.
	2.	Gather completed forms for mission and turn in to data manager at HRD.
110		Obtain a copy of the Dropsonde raw and processed files from the AVAPS operator on thumb drive.
<u> </u>	۵. م	Obtain a copy of the radar LF files from the radar technician on thumb drive. $S \sim N$
-	5.	Obtain a copy of the fadar LA files from the radar scientist on thumb drive.
		Obtain a copy of the fait of radia TA hies non the radia scientist on many drive. Obtain a copy of serial flight data and raw NetCDF file on thumb drive from the data technician. $Monor \circ S$
	6. 7	
	7. °	
	8.	
	9.	Report landing time, aircraft, crew, and mission status to the Field Program Director.
24/273	10. 11.	Determine next mission status, if any, and brief crews as necessary. Prepare written mission summary using Mission Summary form.
		가 있는 것 같아요. 가장 가지 않는 것 같아요. 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 가장 가지 않는 것 같아요. 것

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Lead Project Scientist Check List

Storm or Project_	HARVEY	(AL09)	Experiment name	TOR	
• -					

Flight ID 20170824 H2 Mission ID 1309A

A. Participants:

HRI)	AOC	
Function	Participant	Function	Participant
Lead Project Scientist	ZAWISLAK	Flight Director	HOLMES
Radar/Workstation	NGUYEN . CHANE (NESDIE)	Pilots	KIBBEY KAHN/REES
		Navigator	FREEMAN
Cloud Physics		Systems Engineer	MECALISTER
		Data Technician	NAEHER
Dropwindsonde	KLOTZ	Electronics Technician	
AXBT/AXCP		Other	-
Photographer/Observer s/Guests	RYGLICKI (NRL)		

B. Take-off and Landing Times and Locations:

Take-Off: 14.35 UTC Location: LAL Landing: 2222 UTC Location: _AL

24/062 Sturs / SHEAR : 250 / 13 KT

Number of Eye Penetrations: 3

C. Past and Forecast Storm Locations:

MOVING NORTH / 9 5T OPEN ON SW 3/4 EYE

BAJED	ON	AF	Fix	AF
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મા
NHC

	Date/Time	Latitude	Longitude	MSLP	Maximum Wind
AF FIX AF	24/12002	23.8	93.0	986	SOFT
AF-	24/1304 2	23 49'	93° 081	984	55 KT
NHC	24/ 1500 Z	24.0	93.3	982	550
Æ	24 / 16352	240171	93° 23'	979	750
N 42	24/19442	240391	93"511	979	75 6

D. Mission Briefing:

PLAN IS FOR A BUTTERFLY AND 10'WY, ALTHOUGH WY AF OUT THERE, WERE Dans FULL ROOMR. OROPS AT EACH TURN POINT VI BT COMED. CENTER DROPS ON EACH POSS, NO BT. SO & TROOPS / 6 BTS POSSIBLE IT APPEARS THAT HORUSA IS ENERATING RI & THE SATELLITE PRESENTATION HOS PRANATURINY IMPROVED. SEENS TO BE GAMANG PRECA SYMMETRY

SEARCH ON 2nd Pass 192 FIX ON 2nd PASS

Storm or Proje	ect HARVEY	(AL09)	Experiment	name	TOR
Flight ID 20	17 0824 H2	ំណូ ខ្លួន ឆ្នាំថា៖	Mission ID_	13 09 A	

E. —Equipment Status (Up ↑, Down ↓, Not Available N/A, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs /Expendables/ Printouts
Radar/LF				
Doppler Radar/TA				
Cloud Physics				•
Data System				
GPS sondes			•	
AXBT/AXCP				· .
Ozone instrument			•	
Workstation				
Cameras				

REMARKS:

in the second second

311 3

SFAR HAT BEEN SWAPPED FROM THE PREVIOUS MISSION BUT THE CALIBRATION ON THIS ONE ON THE PLONE IS UNKNOWN. THE PREVIOUS FUCHT EXOCRIENCED ISSUES ON THE AFT SLAN AND THE & PID NOT GET RAPUL VELOCITY DATA. WEILL NEED TO ENTUDIE WHETHER WEIRE GETTING VELOCITY DATA ON THE TRIVISIT OUT. IN THE AFT SLOW. FURE AND AFT WORK DIFFERENT. WORL WY PANA TO STEE IF WE CAN'T WORK OUT THE ISSUES.

Lead Project Scientist Event Log

Date \$/24/17 Flight ID 20170824 H2 LPS ZAWISLAK

Time	Event	Position	Comments
1436 Z	τ/ο		
-			ENROLTE SHURTY AFTER TO
			WE OPENED BOTH SUNFLAFF) - AND MASTER (FORE) TOR
			OILOUTU. POILE BY SOME ANUL, CONGESTIN AND TS
			WAI DETECTIVE VELOCITY W/
			dBZ TO THAT LOOKED OK. NEAR THE ALC, WITHIN ZOAM
			SIN SEC RAVENS WERE SIMILARY SO RIGHT NOW IT
			DODINT LIK LIKE P
			PRODURM, BUT IT LOUND BE SOMETHING IN THE
			Back Enq
15402	WBOUND TO 19		CARCAN WANTS FIX W 15/ ZAL POIS - ALL SPA
5482			PAINTAG ANVIL ON TOR
			TT IS PICKING UP VELOUIN SO YOOKJ GOD
7	\$:		WE HAD WINDS AT FL FROM
		an a	147 (19/C (1001)NG 17 243-)
15562			STMR DOET JEEN
6192	DEJGENT TO 19	26" 5'/90'57'	DESCENT TO 18 EARLY
	in the state of the	tha bar e a tha sao ann ann ann ann ann ann ann ann ann a	PRETTINTENSE OUTER BAND TO CO THROUGH.
623 Z	NEARNE IP	25" 53' / 41 " 13'	LOIS OF SHOWN/MID CONCESTUS
6352	NERQING 19	25 43 /92 31	CIRCURE BANDING IN OVER BRID SOUBE TO IGEM
		u sti fina sa	So dez to exa
16392	lP	25° 43' /92° 20'	DRUP/BT INBUND 2100 6000 JUNOF
	INBOUND TO CTR # 1	25 18 / 92 37	Louis Like Some couldernie Banding, Glean
		25° 0' / 92° 49'	ACNOLUS GOT INTO CLEDRIN
17072	(TR (HUBCLOUP)		CENTER HY
	41	24.3/ 93.5	75 to FL 62 to SFME SFC NE
			6500 FOR 210" 17.
		· · · · · · · · · · · · · · · · · · ·	PAINTING CIPE 30 TO 19 PM 34082 TO FI KM
			NO QUARTINO NO

Lead Project Scientist Event Log

Date _ 8/24/17

Flight ID_ 20170824 41

LPS ZAWISLAK



Time	Event	Position	Comments
17246	CUTBUND ON 210° TO WP #2	23 ° 41 / 94° 91	DEADING INTO CLEDRING NOT OS NUCH BANDING OF
			THIS SE (UPRHEAR ?) SIDE
7332	wp#2	22 49 /94 27	ARRIJED WI # 2 TURNING DOWNWIND
	NOW ON DOWNWIND	REDITY CLEAR OUT	
17472	DOWNWINGT # 3	22°52'/93°22'	SHALLOW / CONCESTOR BELOW
17582	WP # 3	22°56'/92041	INBULNO TO CUTE ON 3300
			WEILL ON WEACE MUNE ON INJUNE TO CATE, RACE TO
			FUL IN CENTED.
18122	INBOLION 380"	23°51'/93°161	REATOR REPORTI GOSA ANALUIS CORRECT FILE STRES, SO WEIRE
10.22		11 (j.	IN TIK CLIEAR
18172	JUST OUTSIAE OF	NOT AS MUCH TALL	PLOT OF SIRAN FURN HEEK TO TIK
	ST FITUME	TOWFRS WE THE ENEWALL	SE OF THE CENTER
	CTR #2	261 04	
18242		240 4 /93 41	SONDE AWAM, DIPJOME SEARCHING
	UN130-NO TO 6044	24.13 / 93.68	WERKE RACK ON ; NO WERKER MODE IN CTR
			REALLY GOUR CURVERIAN IN NW EXY WALL OUT BOWN
1		So 7512T SFC 6000	37.5 NVS PEAK SFIR. BO GT FL ; 976750015 CTR
(છવત જ	OUTBOUND TO WP "Y	ESTIMATE.	So SATEWLIF SHOWAG PEFT
			TIGT NW TIE EXENALL.
			CLEARING UP TO NW
18502	WP # 4	25027' /94036'	SUNDE / BT
19102	POWHWIND TO AS		S AN INFINE CONVECTUE BURIT
			EYEWALL FIRST PASS WAR TO SE DECOND (DOS) WE WENT
			THROUGH IT TO THE NORTH
			"WOTHER " FIFE ON OUR FINAL.
9153	WA #5	2000 and for the sages !	INBOWN ON 090°

So NOW 25 ET INTENTIFICATION ("ROML WHILE WE'VE BREN BUT HERE, (WELL, SINCE 13042 PF Fix)

FROM BT WAY CH LY

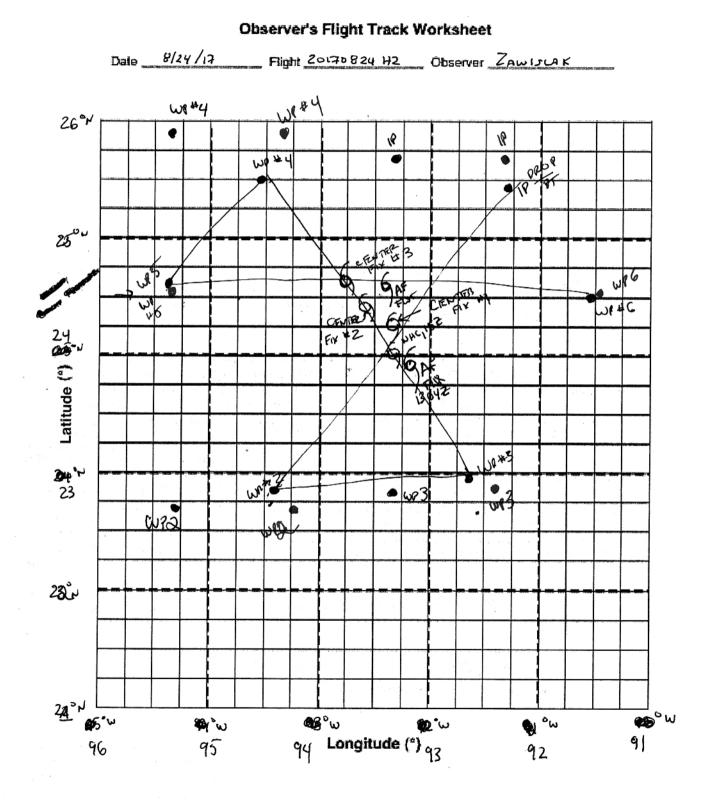
Lead Project Scientist Event Log

Flight ID_

Date_

LPS

Time	Event	Position	Comments
9 252	INBOUND FROM WE +5	24°34 / /95°121	LE SHOWING MUCH BROADDE . RAINPAND - YONNI FROM CA
	tu center	•	BUT WELL SEE
÷			LE INDICATES & LITTLE MORK CELLUAR
19512		24° 35' / 94 °47'	PAIMING A LOT OF STRATFUCK
			LE IN WERE RODE OFF
19392	INBOUND TO CTR		ENTERED A MUAT RECIUN
			CEPTRALULY LOOK HE SINILAR
			COULD LIKE ANOTHER HUB CLIND COULDENTERN EYEURIL
			30-35 abs SPECLES US YOUB?
19 442	CTR #3	240281 /930511	THAT INTENSE BURST MAY LIAVE WEALLEND
(1	ODEN SSE	24.63 / 43.85	THAT IND CLOVE HAD GODD BUMPS LOOKED LIKE STIME JOHN ON
			WESTERN SIDE, NOI MI FL
	MUSEL SYKE SEAR		Suce College Bankon
	MAINSAIN 75 XS		AVAPS ODERATOR MAY HAVE LOST PROP 48 IN CTR
			REQUEST , MAY HAVE SAID NO SUNDE
			LOOKS LIKE SUME MOOR
19592	· · ·		CREWIN BANDING IN THE
		Arristen and Arr	ABUT IS -20 PMI AT STRAIGHT
20032	OUTBOUR TEWARN	אזנורח דה דט בארינות משוטעת נוצנ	LEVEL TU CAPTER BRUD
20162	1	2	•
2016 Z		24° 32' / 91° 57'	WENT THRUCH ONTER BAR VERY CELLURR
			DEAR WILL BE JUST OUTSIDE OF IT
20182	RAIT WA #6 84	240321/91.31	Sumpel Bt
			· · ·
20212			Science Complete
- 1. 1. S. 1993 - 1			
	e to the test states and		



Mission Summary Storm name YYMMDDA# Aircraft 4<u>2</u>RF

Scientific Crew (4 RF)

Lead Project Scientist _	ZAWISLAK
Radar Scientist NG	EN
Cloud Physics Scientist	a
Dropwindsonde Scienti	st KLOTZ
Boundary-Layer Scient	st
Workstation Scientist	. 1 <u>6</u> .
Observers (affiliation)	RYGLICKI (NRL)

Mission Briefing: (include sketch of proposed flight track or page #)

PLAN is FOR A BUTTEREN IN HARVEY; INBOUND 030, WTROWN 210°(1) THEN DOWNWIND TO 150" WBOWN / 330 OUTBOUND, (2) THEN POWHWIND TO 2040"INBOUND / 090" OUTBOUND, DROP/BT AT EACH ENDEDINT/THEN AND "DROP FOR NHC AT CENTRE, FIX REQUESTED AT GUERY PASS. THET UNLEST OTHERWISE DIGNITED BY AF.

Mission Synopsis: (include plot of actual flight track)

FLAST INBOUND ENCOUNTER AT AN INTENSE CONVECTOR RADING IN OUTRE AND INNER. WI A MOST. CENTER WAS MOSTUR LLODED WI 75KT FL/62 KT SEME SFC. ABLAT TO MUX SAME INLONG AZI. WENT DOWNLOWD FROM WAZ TO 3. WENT IN ON 150° LITHE OFVICTIONS WERE NECESSARY. INAQUNO TO SW LAW BOKT FL/75M SEME - GOUD CONSECTOR IN NUMBERGULL & FEEMI TO HAVE ROTATES AROUND FROM THE SE FREWOM ON OUR FROM PASS. WENT OUTBOOM 380 TO WARY. DOWNWIND TO WAR & 5 NOOND C 270° + MUX WORK BAN 40-GOMM REM CTR TO WEST. LOT OF MARTIFEORM & EMPERATED Evaluation: (did the experiment meet the proposed objectives?) CONNECTION. HUR CURA UN WEST

ALL SONDES WERE GOOD, UNCH 2 GOOD BT'S. LF WAS IN WERDE DIDNE ALL FROMT I' POSS/ CTR TOR DESAITE GARLY WORMEN ABOUT THE PET (SEAND) WARKED FINE PALL REMUNDI GOOD DONA/ GOOD ANAVUAS. LOR CHECKED EXTENSIVELY THE RAAD WIND A CONNY THE FORE (MASMEN) AND ALL CHECKED Problems: (list all problems)

CHIY BT? CATER THIN BOD BT'L MISSION ACCOMPLISHED OBJECTIVES. NEED TO MAKE MAR TOR TO ENC.

Expendables used in mission:

GPS sondes: <u>9(6 HFIP/</u>3 NHC) - AU 6000 AXBTS: <u>6 (2 600) / 1 wiscree 0 ATA</u> / 3 BAO

Sonobuoys:

EVENUE CHINN. FILT CLAIR ON CLAIR EVENUALL GOT US GODI UIIDOWNA FINED SM CTR. 75245 SPMR, SO NO MORT INTENSE. CLABORIN ON OADO - BETENDED IS AMI TO SOMPLE DELLULAR CLAREN CUTER RAND. NOO THAT DEED, ALTHOUGH THE UIS JEJOUED MUCH IMPRESSIVE. DROMPED SUNDE / BT TO ERST OF THU BAND RM CLARED UT

STORM. IF EXBERIENCING RI. PRECIS AROUND COR INNER. CORE NEARUN JUMETRIC. INTRNIK BURIF ROTOFF AROUND EXEMPLI LOOKS LIKE WAY SSET TO SPART FUCHT BASED UN BE FIX. WE SAW 75 WT TRAC SFMA BO DO FL

V982A> TO 97900

HARVEY (ALO9) 2017-0824 HZ

