### Lead Project Scientist

Date 8/27/19

## Flight ID 2019082741

Storm or Project Mission ID 07050 Experiment name Emc (CARLY STAGE / OCENN WINDS)

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4.

Participate in general mission briefing.

2	Determine specific	mission and	flight requirements	for assigned	aircraft
6 · · ·	Determine specific	mission and	Inghe requirements	for aborghed	anorait.

- 3. Determine from AOC flight director/meteorologist whether aircraft has operational fix responsibility and the mission designation.
  - Contact HRD members of crew to:
    - Assure availability for mission. a
    - b. Review field program safety checklist
    - C. Arrange ground transportation schedule when deployed.
    - d. Determine equipment status.

5.
6.
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8.
9.
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Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.

- 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.
- Report status of aircraft, systems, necessary on-board supplies and crews to Field Program Director.
- Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
- 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.

#### In-Flight

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- Confirm from AOC flight director that satellite data link is operative (information).
- Confirm camera mode of operation.
- Confirm data recording rate.
- Complete Lead Project Scientist Form.
  - Check in 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).

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#### Post-flight

1. Debrief scientific crew. Gather completed forms for mission and turn in to data manager at HRD. 2. 3. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms. 4. Obtain a copy of the radar DAT tapes. Turn in with completed forms. 5. Obtain a copy of serial flight data on thumb drive. Turn in with completed forms. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.] Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft 6. to Field Program Director Determine next mission status, if any, and brief crews as necessary. 7 8 Notify Field Program Director as to where you can be contacted and arrange for any further coordination required. Prepare written mission summary using Mission Summary form. 9.

### Lead Project Scientist Check List

Storm or Project ALOS / DORIAN

Experiment name EMC (EARLY STAGE LOCEAN)

Flight ID 20190827HI

Mission ID 0705A

### A. Participants:

Function Participant		Function Participant		
Lead Project Scientis	it ZAWISLAK	Flight Director PARAISH / CARPENTER		
Radar J. ZUANG		Pilot KAHN		
Workstation		Pilot ABMBOL/ Rossi		
Cloud Physics		Navigator URATO		
Dropsonde HAZECT	M	Systems Engineer AV DRS: T. RICHORDS		
Dropsonde	NESDUS	Data Technician mascano		
AXBT/AXCP Cuang		Electronics Technicians		
Observer/Guest	SAMP ZELENAK			
Observer/Guest	LEUTNAL	Flight Engineer DARBY /SANCHEZ		

**B.** Take-off and Landing Times and Locations:

Take-Off: <u>2130</u> UTC Location: <u>St. CROVX</u> Landing: <u>0228</u> UTC Location: BARGAD OS

Number of Eye Penetrations: \_\_\_\_

#### **C. Past and Forecast Storm Locations:**

Date/Time	Latitude	Longitude	MSLP	Maxim Wine	
27/21007	15.3N	62,500	1005	45 CT	www
/			a a second		
/			1 very starting and -		
1	8.750 A.				
/			a president and a state		

#### **D. Mission Briefing:**

PLAN IS FOR A SHANDARD ROMATED FIG. 4, 90 And LEGS, 10 KA FUR TOR PLROUSED. WON'T FIX THE CENTER, BUT GET A GUEN SHUT BASED ON THE ADREDICE. CENTER SUNDE ON 13 / UNST, EU124 ANDROW AND ENDPOINT.

> OCEAN WINDS HAS CHUICE AFITE COMPLETION US PATTERN TO OU HIS WURK. SHULD BE WURKING THE

STORA HO, BREAN STERDY STATE S. SA

Storm or Project ALOS/DORIAN Experiment name EMC (CARLY STOGE Flight ID 2019082741) Mission ID 0705A

E. - Equipment Status (Up U, Down D, Not Available N/A, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs /Expendables/ Printouts
Radar/LF		A State of the second		
Doppler Radar/TA		and the second second		
Cloud Physics	Welling and		and the second second	
Data System	The second second		Conservation of the	
GPS sondes			and the second	and the second s
AXBT/AXCP		Constraint of Constraints	and an and the	
Ozone instrument		and the second second		
Workstation	14 Turne Start	and the second second second	and the second second	
Cameras				S ST R SHELL HE

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**REMARKS:** 

# Lead Project Scientist Event

Date 8/27/19

Flight ID 2019082741 LPS ZAWISLANK

Time	Event	Position	Comments
2130 2	TAKEOFF FROM STX		HEROING OUT TO THE STORY DEFINITELY & PEPS OF THE
		Tel I	CENTER TO THE WRAD IN THAT CONVECTIVE ENCLICES
a sum	PAUL CHANG WANT ANGN DUR FIRST	OT CO	MORE ONEN TO THE SUMS MICE DUTTED , CONVERSON
	WITH AN OVERPOIS AT 22332 SE TUR	CLENSE	ARAFORI TO BE GERNAL
	ABQUEED DELMIN	LANCI	LILLELY DUT A BIT OF STRATENT IN THE STORY
	CENTERING OUR PONT OND ALLNED W 125	cun miner	HASN'T QUITE CLAMED THE ISLOWES FUR DUR
	WARD IS ONLY 100 WAS PLANNED	OFF WIRt	PATTERN
22053			WERPOIR AND CENTER
			PATTERN FRE EAC ABOUT TO GU LABOUM COMAL MAR UP
22  1 Z	Sonorth 1	16"30"/64 46	HEADING INPOLING UN 305° OR 125 DEC HAI
22232	SOUDE #2 (MINI 41)	15059'/64071	HEROMO TUNPER MP NOT MULLI PERCIP OF BEER
		1	JUST ANVIL NOT MICH WW CL LOOKS LIKE STRANFORM OF
22342	SUDR #3 (MINI +2)	15'33' 63° 28'	"CTR" " STUL NOT NEDA
CESTE	(7)2 *1	10 33 7 - 20	IT'S HARD TU GET THIS
			DIPPERENT WINE BELOW
22442	South 44 (min H3) MR aut (25	15010 620551	LOTS OF STEENFORM ON THIS SOUND STORE. THINK THE
0	Source 45 (BACKER)	Y For Fou	CIACUMUN IS A BIN MORE
2254 2	SONOR 46 80 on 125	140 431 / 620131	BING TO WER TO REDUG POSITION OURSELVES
			TO GET IN GOST SIDE SSMI TO GET EAM OF CTR
			AR TERORING 62.3/15.9
			AGOINST THE ISCONDS
2300 2	DOWNWIND TO MA	G2. 9/	
		CONVECTUR OVER H	Ch.F.

manner

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# Lead Project Scientist Event

Date 8/27/19

Flight ID ZO19082741 LPS ZAWISLAK

Time	Event	Position	Comments
2309Z	GU SONDENT DEN TO 90" RADIA	150481/610521	SO NOW REPUTER ON THE CARCON OF TORCEST OF
	A LOT MURK	CONVEGUE	62. B W/ IS, ON THE TO DO A DOR ANGLENS LOTS MORE CUNVEDTION
-/:			
2322 Z	SUNDE 40 GUND OUT ON 270°	15 47 /62 491	"KTR "Z" BASED ON BE UND HOZGEN
	4 paograms		LOUKS LIVE WE TRIANGLE THE CENTER AT OUR
	GINENT JE CAR GINES PIJEE	IN DUR WINDS AT PL	AUTION DEFINITEUS
-	TRUCK CENTRA MAY BE TO CAST	TO SLAN OF CER TARUEL	STILL LOTS OF STRATFURD
	OF AF TORORY		
23332	SUNDE 49 (MINIGY) MOGNOVT ON 270	15°42 /63°38'	NEADWO BEFERRE MIDPOINT UF OUTDOWR. BEEN GO. 26
			THRANCE PRACE MUSTUR STREATESRATE,
			SO NOW WHELL SET UP ON THE SUN - NE AND SHOW
			GET 90 MN LESS THERE
2343 2	SUNDE HIO TUEN DOWNWY FROM W P	538164024'	NOT MUCHS PRECE SHOW
		t	DEFINITELY SALL SERING THE THIS TIME TO SOME
	DOLUNIANO NOW TO	sw	ROOM SHOW NICK SUTH TUT FROM SEC
			STIL NOT MUCH PRECIP.
	JUNDE #11	14°43' / 63°53'	NOW ITERORY LUBOUR ON 2250 PA
0600 Z	TURANUC OU UNINA TO A	19 45 1 05 5-	GUL TO BE MEMED INTO STRAT
00112	SUNDA 42 (mm1 +5)	15171/633191	MOSTUR STRATTORIN QUIL
		1	OFFINITEN HAVE D CLEIR OFA
00232	CALLS NO SONOR	150511/62044)	ON HAR + STRATFORMED
			SW, CONVECTIN ELSEWBERG
		DEFINI	TEUL NEW CONVECTIV DEVELOPU
		۵~ ۹	EAST STAR REALT GUN RETUR
00352	SONOE 413 (MINI 46) MP of 045'	16°25'/62'9'	mistons, write to proo
0.00			LIEW CONVECTIVE BANG THAT W
	1		WENT TUROUSU

# Lead Project Scientist Event

Date

Flight ID

LPS

Time	Event	Position	Comments
00442	SONDE #14. EURONE ON OVS.	160 541 / 61 " 431	NOT MUCH PRECY, TURNING
			FOR FINAL PASS WELL OUTSIDE THE BANDWG.
Profiles			PIT LOWER EXTRAPONIES
10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	and the second	1003 Reon 1004 Mathe 50 14
	SUMOR #15	- a l caqual	WW TURNES INBOUS TO
0059 Z	INBOUD PT TO NORMA	17 10' 62 491	SUN TIL MOITUM OUT OF PRECIA
	h.		BANANG IN THEMIDOLE OF THE LEG JUST OF WE SAMPLED ON THE PASILUS
		State Bart	UNBOURD
	SOUDE #16 (M41+6)	104 11 0 1	RANDING
01082	Source #16 (mul =6) Ma on 180° Har 360° R	nor 16'30'/62'51'	
01223			44' SOME DECENT CONVECTION CLOVE TO THE ULC
Sales and	15 28 / 62053'	So Chron	SIDE, WACH REDE CLEDEN HON AME SPRELLER
i marine		NOT AS MUCH PRU	ESSURE DROD
0130 Z	SUNCE "17 6 THE ON OUTBOUR UN 13.	14°551/62°53'	HEARING OUTBOUND WREATENING STRATFORM
0140 2	Soun # 18	14 16' 62 531	END POINT TO SOUTH DUNE PATTERN
1	181 11213	132 M. Arman	
	į		
v.			
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1999 - 19 - 19			
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18	2		
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and the second			

#### Mission Summary

Scientific Crew (42RF) Lead Project Scientist Zawasak Radar Scientist Zuawa Cloud Physics Scientist Dropwindsonde Scientist Haze row Boundary-Layer Scientist Workstation Scientist Observers (affiliation)

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

PUTEN FOR O ROMATED FIG 4 WITH 90 MO UKES AT 10 KM, OND TIME FOR MESNIS OCEAN WINDS WORK, MATRE A CLEWSS SATELLISE UNDERFUGE ALGNMENT.

THE STURY IS THE STRUGGLING TO ORT ORGANIZED WITH BURSTING AND A REFORMATION OF THE CENTER TO THE WITH

Mission Synopsis: (include plot of actual flight track)

SU THE ROADL DEFINITENT SHOWS A TITE STRUCTURE of A MINICAL CIRCUMULATED TO THE SUMH OF THE UNITED, AND SUMEWISOF EUNIGATED. GU CAR REFURDATION LINEOU HAPPERMES EARLIER. IT WAS TOUCHS CRETENG THE CAR OF THE FIRST PASS LUMACH WE HAT TO FOR SUTH (ACTUAL THE MID CEUR) WE REASETTIMET BASED ON THE CORONY TORGET FOR THE AF FIRST FIX AND TOTA WORKED WELL. WE DID PNEUDERALIST OF CHEMISS: FOR OCEAS WINDS. BUIMAND TOTA Evaluation: (did the experiment meet the proposed objectives?) FIRST PAN FOR ~ 22307,

When to DECL WI IS WHOS AND AND A CENTRIC AND WITH A DECONDO TIO WE WHENEN'T ASUE TO DESTIMATED OF MARKING, THEY AD SUME UTMER THAN THAT GODD FUENT. GOUR CONFRACE

AND ON UNUSUAL INSTRUCTIONE STRUCTURE. STAVUS BE GOUS FOR ENC.

Problems:(list all problems)

100300 LOWREN ENTROR, MOURE 50 KG SFMR

CAN IT INCLUDE THE PRITLES IN THE BNAULIUS SHOE WE MULTED

BE SO MUCH AND DECIDED TO TORGET FURNER WIRDLY

UNE FOR FALL SONDE

Expendables used in mission:

	Deployed	Goo	d	Bad
GPS sondes :		18	ALTO	I For Fou
AXBTs :			7 SONDES.	

Sonobuoys:

UAVs