Lead Project Scientist

| Date | 71 | 11/2019 Flight ID 201907/1#/ |
|-----------|------------|--|
| | | roject AL92 Experiment name TDR |
| Missi | on ID | 도면 프로젝터 NOTE - 1000에 다른 1000에 대한 사람들이 되었다면 하는 것이 되었다. 그는 사람들이 되었다면 하는 것이 없다면 하는 것이다면 하는 것 |
| Pre-fl | ignt | |
| X | 1. | Participate in general mission briefing. |
| X | 2. | Determine specific mission and flight requirements for assigned aircraft. |
| X | 3. | Determine from AOC flight director/meteorologist whether aircraft has operational fix responsibility and the mission designation. |
| 区 | 4. | 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. |
| N | 5. | Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing. |
| X | 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. |
| M | 7. | Report status of aircraft, systems, necessary on-board supplies and crews to Field Program Director. |
| X | 8. | Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times. |
| 内区 | 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. |
| In-Fli | ight | |
| X | 1. | Confirm from AOC flight director that satellite data link is operative (information). |
| V | 2. | Confirm camera mode of operation. |
| V | 3. | Confirm data recording rate. |
| X | 4. | Complete Lead Project Scientist Form. |
| للا | 5. | 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). |
| Post- | light | the state of the s |
| | 1. | Debrief scientific crew. |
| | 2. | Gather completed forms for mission and turn in to data manager at HRD. |
| | 3. | Obtain a copy of the 10-a 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: al | l data res | moved from the aircraft by HRD personnel should be cleared with the AOC flight director.] |
| | 6. | Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to Field Program Director |
| | 7. | Determine next mission status, if any, and brief crews as necessary. |
| | 8. | Notify Field Program Director as to where you can be contacted and arrange for any further coordination required. |
| 44 | 9. | Prepare written mission summary using Mission Summary form. |

contacting found may

diliyen.

Lead Project Scientist Check List

| Storm or | Project | AL92 |
|----------|---------|--------|
| | 2010 | 071111 |

Flight ID 20190711#1

Experiment name TDR

Mission ID NOAA 2 0 302 A

A. Participants:

| Function | Participant | Function | Participant |
|---------------------------------------|-----------------|------------------------|------------------|
| Lead Project Scientis Radar Alvey/ | + Marks/Alvey | Flight Director Po | evrish |
| Radar Alvey/ | Mark 1 | Pilot Kibbey | |
| Workstation | | Pilot Didice | |
| Cloud Physics — | - | Navigator Free | man |
| Dropsonde Abe | VSOV | Systems Engineer L | Muchan le |
| Dropsonde Dia | 3 | Data Technician | (AKSVAV) |
| AXBT/AXCP JO | Juson (Nicolas) | Electronics Technician | is Legisles |
| Observer/Guest | | 1/ | 1 1 1 |
| Observer/Guest | | Flight Engineer | 1) Stale / Sauch |

C. Past and Forecast Storm Locations:

| Date/Time | Latitude | Longitude | MSLP | Maximum Wind |
|-----------|----------|-----------|------|-----------------|
| / | | | | |
| 1 | | | | |
| / | | | | |
| 1 | | - | | |
| 1 | | | | |

| D. Mission Briefing: | a Cd | 105 nm | radius | 1095 |
|----------------------|--------|-----------------------------|--------|------|
| start 1 | = > | 105 nm 15 K five burs | F+ 1 | 1 |
| possible | convec | tive burs | t mode | le |

Storm or Project AL 92 Experiment name TDR

Flight ID 20196711H i Mission ID NOAA2 0302 A

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 | V | HWXwodels | ded V | |
| Doppler Radar/TA | V | | | 8 maraley |
| Cloud Physics | V | U | V |) |
| Data System | V | 1/ | / | |
| GPS sondes | V | | | 18 501de |
| AXBT/AXCP | Vexand | 2015 worked | 1 | 2/5 875 |
| Ozone instrument | - | | | / _ |
| Workstation | / | | ~ | |
| Cameras | | ~ | ~ | |

- Shortly after TO MMR HUX wode

- MMR HWX mode came back for burst
module

- of the 5 bts dropped in SW quadrant

the last ten o worked - hopefully war

- cooledge there alts 40 mg/g/g/g/g 5 legs

- Convective burst module had 5 legs

4 Easw and 1 at TK 120° alli PKFT

- not much converting on W side

- pleaty of deep convections side

- pleaty of deep convections side

- low-levels wind seein N of our mid-feeld

Center tracking w to Ms Delte

Lead Project Scientist Event

Date 7/11/2019

Flight ID 20190711#1 LPS Marks/Alvey

| Time | Event | Position | Comments |
|--------------|-----------|--|----------------------|
| 70 | 0807 | Lakeland | |
| | | ment of the second | MMR HUX mode |
| 1) 18 | 085653 | 28N,860 2 | pot stapped walking |
| | 15 KF+ | (TK 270) | or terry |
| | T= 2,0°C | | here no MWRON |
| midpt | 090841 | 28N 87W | house no MWKay |
| | | drop#2 | (12) |
| 19 | 092030 | 28N 88W | 0918 28 87.9 |
| . 0 4 | 100 1/ | drop # 3 | |
| midpt | 093211 | 28N 89W | |
| 3 | 5KF 7=300 | 28N90,5W | 01.01.200 |
|) | 095315 | 28190,50 | extend leg 20h |
| 1 | TX 150° | ALOPAS 1 | Hori (Linux) |
| | 100010 | AVRITA | Failed Strong nday |
| | 100510 | AXA7#3 | Ciled |
| | 101507 | AXBT # 4 | 29.32°55T 900 |
| 3) | 102620 | 2610N 88,75U | 210215 |
| | TK 030 | 1 | |
| | 102815 | AXBT# 5 8 | ropt 6 Si partial 29 |
| wiidn | 1040 | 27.35 88.25 | 250p#7 |
| 6. | 105/42 | 28,1 87.9 | drop#8 |
| mrd of | 1101 | | du00 #9 |
| (7) | 111310 | 29.5 87.05 | drop# 10 |
| | TK 270 | | |
| (5) | 11.34 | 29.5 89.0 | drop#11 not us |
| | (TK150 | The same of the sa | conve |

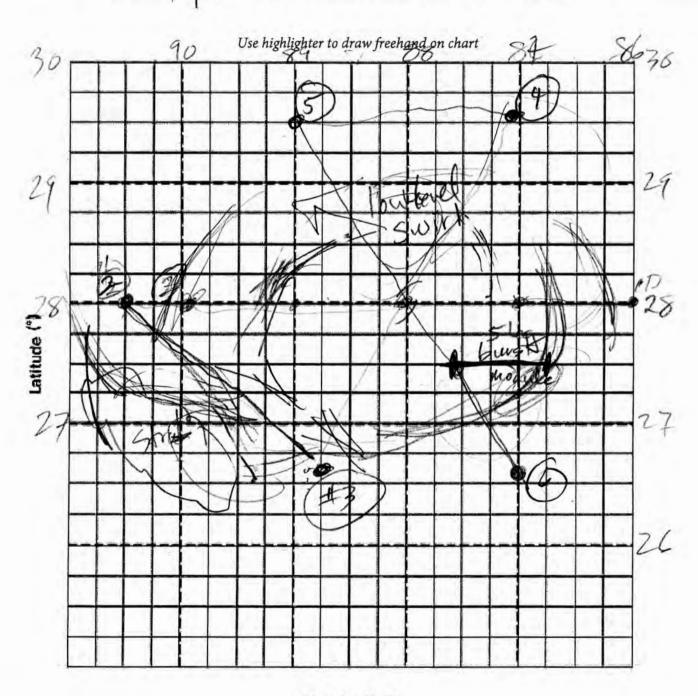
Lead Project Scientist Event Date 7/11/2019 Flight ID 201907/14/1 LPS Nant Alveg

| Time | Event | Position | Comments |
|-----------|--------|---------------|-------------------------|
| uidpt | | 18.75W 88.45 | v drop #12 |
| 6 | | 28 N 88 W | drop# 13 |
| 9) | | 28 N 88 W | 0 rop = 13 |
| in Sof | | 27.2 87.5 | 8530#14 |
| | | | |
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3

Observer's Flight Track Worksheet

Date 7/11/19 Flight 2019 07/11 #1 Observer Marks



Longitude (°)

Mission Summary

| | | , | |
|----------------------|--|---|--------------------------|
| | Scientific Crew Lead Project Sc Radar Scientist Cloud Physics S Dropwindsonde Boundary-Laye Workstation Sc Observers (affil | Scientist Alarks Scientist Alarks r Scientist N. Islientist | Alvey M/Diaz nnson |
| Mission Briefing: | include sketch of p | roposed flight track o | r page #) |
| Mission Synopsis: | (include plot of acti | ual flight track) | |
| Evaluation: (did th | e experiment meet i | the proposed objectiv | es?) |
| Problems:(list all p | problems) | | |
| Expendables used | | Good | Bad |
| CDS condes | Deployed | 18 | D |
| GPS sondes: | 18 | | |
| AXBTs: | 5 | 2 | 3 |

Sonobuoys:

UAVs