

July 2, 2014

U.S. DEPT. OF COMMERCE
NOAA Earth System Research Lab
DIGITAL OZONESONDE CHECKLIST

FLT # H0893

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 11-12-14
 INITIALS: BW
 PUMP#: 2827542
- Run zero air 10 minutes (✓)
 - PUMP CURRENT: 105.65 (mA)
 - PUMP PRESSURE: 710 (psi)
 - DMT Press/vac: 28 / 19 (in Hg)
 - Bypass cell (✓)
 - Add 5-6cc cathode (✓)
 - 30 MINUTES HI O₃ (✓)
 - 3 MINUTES NO O₃ (✓)
-
- DUMP CATHODE RINSE: (✓)
 - ADD 3.0 CC FRESH CATHODE # (✓)
 - ADD 1.5 CC ANODE SOLUTION: (✓)
 - RUN 10 MINUTES on NO O₃ (✓)
 - RECORD CURRENT BEFORE O₃: BG = 0.169 μ A
 - RUN 10 MINS on 5 μ A O₃ (✓) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 μ A: 32.21 sec.
 - Run sonde for 10 mins on NO O₃ (✓)
 - RECORD CURRENT: BG = 0.192 μ A
 - Short the cell leads: (✓)
 - Intake tube stored in sonde frame: (✓)
 - Place Sonde inside plastic bag: (✓)
 - Store inside Styrofoam flight box: (✓)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 11-18-14

- RUN 5 MINS on NO O₃ (✓)
- RECORD CURRENT: .066 μ amps
- RUN 5 MINS on 5 μ amps O₃ (✓) - then switch to NO O₃ AIR
- RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 23.15 sec
- Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11-29-14
INITIALS: CVC

- Cathode solution # or date written on bottle: 245
- CHANGE CATHODE SOLUTION (3cc): (✓)
- CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
- RUN ON NO O₃ FOR 10 MINUTES: (✓)
- RECORD THE NO O₃ BACKGRND#1: BG1 = .036 μ amps
- RUN ON 5 microamps of O₃ for 10 Minutes: (✓)
- SWITCH TO NO O₃ AIR
- RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μ amps: 23.96 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 22.9, ROOM RH (%): 15
 Flowrate Correction: 3% (%)

FLOWRATE #1:	<u>29.02</u>	sec
FLOWRATE #2:	<u>29.09</u>	sec
FLOWRATE #3:	<u>29.11</u>	sec
FLOWRATE #4:	<u>29.02</u>	sec
FLOWRATE #5:	<u>29.13</u>	sec
AVERAGE T100:	<u>29.074</u>	sec

Wet	<u>28.80</u>	<u>28.93</u>	<u>28.83</u>	<u>28.853</u>
Dry	<u>27.99</u>	<u>28.07</u>	<u>27.95</u>	<u>28.003</u>

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H0893
 GMT DATE (YYMMDD): 11-29-14 LOCAL DATE: 11/29/14
 GMT LAUNCH TIME: 7:15 LOCAL TIME: 1:15
 Operator Initials: CVC

BALLOON SIZE: 800 Grams: TOTEX _____ Hwoyee _____ PAWAN _____ (✓ one)
 PAY-OFF-WEIGHT: _____ Grams: Burst Alt: _____ (km) Turn/Burst: _____

O₃ sn: 2827542 O₃ CELL BACKGROUND (μ amps): .036 O₃ Ventilation Holes: N
 O₃ Flowrate: 29.074 (sec) O₃ Flowrate Correction: 3 (%)

NOAA FPH sn: _____ (if using Frost Point Hygrometer.)

SURFACE PRES: 995 (hPa)
 SURFACE TEMP: _____ (C)
 SURFACE RH: _____ (%)

Sky Conditions: cloudy

REMARKS: _____