DEPT. OF COMMERCE
Earth System Research Lab

July 2, 2014 DIC OZONESONDE CHECKLIST FLT # H4943

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/5/15
INITIALS: RWS
PUMP#: 27291/06

1. Run zero air 10 minutes √ (√)
2. PUMP CURRENT: 91.90 (mA)
3. PUMP PRESSURE: 711 (psi)
4. DMT Press/vac: 26 / 20 (in Hg)
5. Bypass cell √ (√)
6. Add 5-6cc cathode √ (√)
7. 30 MINUTES HI O_3 √ (√)
8. 3 MINUTES NO O_3 √ (√)

9. DUMP CATHODE RINSE: √ (√)
10. ADD 3.0 CC FRESH CATHODE # √
11. ADD 1.5 CC ANODE SOLUTION: √ (√)
12. RUN 10 MINUTES on NO O_3 ___ (√)
13. RECORD CURRENT BEFORE O3: BG = 0.398 µA
14. RUN 10 MINS on 5 µA O_3 √ (√) - then switch to NO O_3 AIR.
15. RECORD: TIME TO DROP FROM 4 TO 1.5 µA: 47.13 sec.
16. Run sonde for 10 mins on NO O_3 √ (√)
17. RECORD CURRENT: BG = 0.296 uA
18. Short the cell leads: √ (√)
19. Intake tube stored in sonde frame: √ (√)
20. Place Sonde inside plastic bag: √ (√)
21. Store inside Styrofoam flight box: √ (√)

Return Meta

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 11/13/2015

1. RUN 5 MINS on NO O_3 √ (√)
2. RECORD CURRENT: 0.101 µamps
3. RUN 5 MINS on 5 µamps O_3 √ (√) – then switch to NO O_3 AIR
4. RECORD TIME TO DROP FROM 4 TO 1.5 µamps: 30.07 sec
5. Short cell leads and Store in Styrofoam flight box: √ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/14/15
INITIALS: RWS

1. Cathode solution # or date written on bottle: 261
2. CHANGE CATHODE SOLUTION (3cc): √ (√)
3. CHANGE ANODE SOLUTION (1.5cc): √ (Yes/No)
4. RUN ON NO O_3 FOR 10 MINUTES: √ (√)
5. RECORD THE NO O_3 BACKGRND#1: BG1= 0.044 µamps
6. RUN ON 5 microamps of O_3 for 10 Minutes: √ (√)
7. SWITCH TO NO O_3 AIR
8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 µamps: 29.17 sec
9. RECORD: 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:
ROOM TEMP (C): 16.6 ROOM RH (%): 19
Flowrate Correction: 0.9 (%)
FLOWRATE #1: 30.27 sec
FLOWRATE #2: 30.37 sec
FLOWRATE #3: 30.58 sec
FLOWRATE #4: 29.99 sec
FLOWRATE #5: 30.48 sec
AVERAGE T100: 30.338 sec avg

Dry	28.43	28.49	28.47	28.4633
Wet	28.17	28.26	28.22	28.21

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4943
GMT DATE (YYMMDD): 15/11/14 LOCAL DATE: 11/14/15
GMT LAUNCH TIME: 13:03 LOCAL TIME: 1:03 PM
Operator Initials: RWS
BALLOON SIZE: 1200 Grams: TOTEX ___ Hwoyee ___ PAWAN ___ (√ one)
PAY-OFF-WEIGHT: _____ Grams: Burst Alt: _____ (km) Turn/Burst: _____

O_3 sn: 34526 **O_3 CELL BACKGROUND (µamps):** 0.044 O_3 Ventilation Holes: 1
O_3 Flowrate: _____ **(sec)** **O_3 Flowrate Correction:** 0.902 **(%)**
Radiosonde sn: 34526 Freq: 403 (MHz)

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

SURFACE PRES: _____ (hPa)
SURFACE TEMP: _____ (C)
SURFACE RH: _____ (%)
Sky Conditions: _____
REMARKS: _____