U.S. DEPT. OF COMMERCE — PTI # [illegible]

NOAA Earth System Research Lab

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 8/27/14
INITIALS: BW/CLC
PUMP#: Z7222442

1. Run zero air 10 minutes ✓ (√)
2. **PUMP CURRENT:** 121.39 **(mA)**
3. **PUMP PRESSURE:** 710 **(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 0.240 (√)
13. **RECORD CURRENT BEFORE O3: BG =** .240 **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:** 51.2 **sec.**
16. Run sonde for 10 mins on NO O_3 ✓ (√)
17. **RECORD CURRENT: BG =** .231 **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: ✓ (√)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 9/3/14

1. RUN 5 MINS on NO O_3 ✓ (√)
2. RECORD CURRENT: 0.109 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: 28.59 sec
5. Short cell leads and Store in Styrofoam flight box: ✓ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 9/13/14
INITIALS: BW

1. Cathode solution # or date written on bottle: Jan 13, 2014
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= .0046 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: 27.46 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 28°C, ROOM RH (%): 40%
Flowrate Correction: 1.6 (%)
FLOWRATE #1: 30.27 sec
FLOWRATE #2: 30.26 sec
FLOWRATE #3: 30.21 sec
FLOWRATE #4: 30.28 sec
FLOWRATE #5: 30.16 sec
AVERAGE T100: 30.236 sec

dry 27.57 — 1 — 2 — 3 — avg
wet 27.44 — 27.04 — 27.13 — 27.08
27.53 — 27.50 — 27.51

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU882
GMT DATE (YYMMDD): 9-13-14 LOCAL DATE: 9-13-14
GMT LAUNCH TIME: ~~9-13-14~~ 6:10 LOCAL TIME: ~~9:10~~ 1:10 pm
Operator Initials: CO
BALLOON SIZE: 800 Grams: TOTEX ✓ Hwoyee ___ PAWAN ___ (√ one)
PAY-OFF-WEIGHT: _____ Grams: Burst Alt: _____ (km) Turn/Burst: _____

O_3 sn: Z3222442 **O_3 CELL BACKGROUND (µamps):** 0.046 O_3 Ventilation Holes: Y
O_3 Flowrate: 30.236 **(sec)** **O_3 Flowrate Correction:** 1.6 **(%)**
Radiosonde sn: _____ Freq: 403 (MHz)

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

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