U.S. DEPT. OF COMMERCE
NOAA Earth System Research Lab

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

FLT # HU914

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): _____
INITIALS: _____
PUMP#: 2728103

1. Run zero air 10 minutes ✓ (√)
2. PUMP CURRENT: 90.61 (mA)
3. PUMP PRESSURE: >10 (psi)
4. DMT Press/vac: 29 / 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 =** .130 **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:** 33.59 **sec.**
16. Run sonde for 10 mins on NO O_3 ____ (√)
17. **RECORD CURRENT: BG =** .148 **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): 4-14-2015

1. RUN 5 MINS on NO O_3 ✓ (√)
2. RECORD CURRENT: 0.052 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: 25.29 sec
5. Short cell leads and Store in Styrofoam flight box: ✓ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4-26-15
INITIALS: CLC

1. Cathode solution # or date written on bottle: 251
2. CHANGE CATHODE SOLUTION (3cc): 251 (√)
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= .023 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: 23.44 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 22.0, ROOM RH (%): 50
Flowrate Correction: _____ (%)
FLOWRATE #1: 29.74 sec
FLOWRATE #2: 29.66 sec
FLOWRATE #3: 29.66 sec
FLOWRATE #4: 29.68 sec
FLOWRATE #5: 29.67 sec
AVERAGE T100: 99.682 sec

wet	29.09	29.06	29.07	avg	29.073
dry	27.89	28.16	28.19		28.08

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU914
GMT DATE (YYMMDD): _____ LOCAL DATE: _____
GMT LAUNCH TIME: 1:00 LOCAL TIME: _____
Operator Initials: CLC
BALLOON SIZE: 1200 Grams: TOTEX ____ Hwoyee ____ PAWAN ____ (√ one)
PAY-OFF-WEIGHT: _____ Grams: Burst Alt: _____ (km) Turn/Burst: _____

O_3 sn: _____ **O_3 CELL BACKGROUND (µamps):** _____ O_3 Ventilation Holes: _____
O_3 Flowrate: _____ **(sec)** **O_3 Flowrate Correction:** _____ **(%)**
Radiosonde sn: 28444 Freq: _____ (MHz)

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

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