

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 5/10/16  
 INITIALS: MG PT  
 PUMP#: 2230789
- Run zero air 10 minutes  (✓)
  - PUMP CURRENT: 108.44 (mA)
  - PUMP PRESSURE: 761 (psi)
  - DMT Press/vac: 281.19 (in Hg)
  - Bypass cell  (✓)
  - Add 5-6cc cathode  (✓)
  - 30 MINUTES HI O<sub>3</sub>  (✓)
  - 3 MINUTES NO O<sub>3</sub>  (✓)
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- DUMP CATHODE RINSE:  (✓)
  - ADD 3.0 CC FRESH CATHODE # 262
  - ADD 1.5 CC ANODE SOLUTION:  (✓)
  - RUN 10 MINUTES on NO O<sub>3</sub>  (✓)
  - RECORD CURRENT BEFORE O<sub>3</sub>: BG = 0.248 μA
  - RUN 10 MINS on 5 μA O<sub>3</sub>  (✓) - then switch to NO O<sub>3</sub> AIR.
  - RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 41.19 sec.
  - Run sonde for 10 mins on NO O<sub>3</sub>  (✓)
  - RECORD CURRENT: BG = 0.275 μA
  - 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): 5/18/16

- RUN 5 MINS on NO O<sub>3</sub>  (✓)
- RECORD CURRENT: 0.110 μamps
- RUN 5 MINS on 5 μamps O<sub>3</sub>  (✓) - then switch to NO O<sub>3</sub> AIR
- RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 25.53 sec
- Short cell leads and Store in Styrofoam flight box:  (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 5/28/16

INITIALS: MG

- Cathode solution # or date written on bottle: 262
- CHANGE CATHODE SOLUTION (3cc):  (✓)
- CHANGE ANODE SOLUTION (1.5cc): yes (Yes/No)
- RUN ON NO O<sub>3</sub> FOR 10 MINUTES:  (✓)
- RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.040 μamps
- RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (✓)
- SWITCH TO NO O<sub>3</sub> AIR
- RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μamps: 23.21 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 24.4, ROOM RH (%): 42

- Flowrate Correction: 0.9 (%)
- FLOWRATE #1: 30.49 sec  
 FLOWRATE #2: 30.60 sec  
 FLOWRATE #3: 30.48 sec  
 FLOWRATE #4: 30.51 sec  
 FLOWRATE #5: 30.51 sec  
 AVERAGE T100: 30.52 sec

Dry	<u>27.63</u>	<u>27.68</u>	<u>27.72</u>	<u>27.68</u>
Wet	<u>27.87</u>	<u>27.97</u>	<u>27.93</u>	<u>27.92</u>
	1	2	3	Avg

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU971

GMT DATE (YYMMDD): 16/05/28

LOCAL DATE: 5/28/16

GMT LAUNCH TIME: 18:22Z

LOCAL TIME: 1:22pm

Operator Initials: MG

BALLOON SIZE: 1000 Grams:

TOTEX          Hwoyee         

PAWAN          (✓ one)

PAY-OFF-WEIGHT:          Grams:

Burst Alt: 28.8 (km)

Turn/Burst:         

O<sub>3</sub> sn:         

O<sub>3</sub> CELL BACKGROUND (μamps):         

O<sub>3</sub> Ventilation Holes:         

O<sub>3</sub> Flowrate:          (sec)

O<sub>3</sub> Flowrate Correction:          (%)

Radiosonde sn: 36196 Freq:          (MHz)

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

SURFACE PRES:          (hPa)

SURFACE TEMP:          (C)

SURFACE RH:          (%)

Sky Conditions:         

REMARKS: