

U.S. DEPT. OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
CLIMATE MONITORING AND DIAGNOSTICS LABORATORY
DIGITAL OZONESONDE CHECKLIST

FLT# VU007

June 2004

RICE UNIV. (0.5% buffered)

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 4-20-06
INITIALS: MT
PUMP NUMBER: 225613-6PS

1. Run zero air 10 minutes (v)
2. PUMP CURRENT: 92
3. PUMP PRESSURE: 15

4. PUMP VAC : 23
5. 30 MINUTES HI O₃ (v)
6. 5 MINUTES NO O₃ (v)

7. ADD 3.0 CC FRESH CATHODE: (v)
8. WAIT 2 Minutes : (v)
9. ADD 1.5 CC ANODE SOLUTION: (v)
10. RUN 10 MINUTES on NO O₃ (v)
11. RECORD CURRENT: = 0.45 μ amps
12. RUN 10 MINUTES on 5 μ amps O₃ (v) - then switch to NO O₃ AIR.
13. RECORD: TIME TO DROP FROM 4 TO 1.5 μ amps: 53.31 sec.

14. Run sonde for 10 minutes on NO O₃ AIR (v)
15. Short the cell leads: (v)
16. Add about 2 to 2.5 CC more Cathode Solution (v)
17. Place Instrument inside plastic bag: (v)
18. Store inside Styrofoam flight box: (v)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/27/06
INITIALS: JA, AM

DRY T100

Cathode solution # or date written on bottle: Jan 25, 2006
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1= 0.9 μ amps
RUN ON 5 microamps of O₃ for 5 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.68 sec
FLOWRATE #2: 28.82
FLOWRATE #3: 28.68
FLOWRATE #4: 28.65
FLOWRATE #5: 28.66

DRY AVG: _____

WET T100

#1: _____
#2: _____
#3: _____

WET AVG: _____

AVERAGE T100: 28.70

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 22.31 sec.

*T100 Flowrate correction. _____ %

RECORD: ROOM TEMP (C) 23.2 ROOM REL. HUMID. (%) 29

RECORD: 5 - T100 FLOWRATE TIMES:

SONDE= _____ ppbv @ CALIB= _____

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: VU007
GMT DATE (YYMMDD): 060427
GMT LAUNCH TIME: 19:01

LOCAL DATE: 4/27/06
LOCAL TIME: 2:01

BALLOON TYPE 800 Gram : Kaymont Scientific Sales _____ (v one)

O₃ BACKGROUND (μ amps or HEX value in Y channel): 0.01

VAISALA NUMBER (9 digit): 634530108
SURFACE PRESSURE: 989
SURFACE TEMP. (C): 21.3
SURFACE HUMIDITY: 29

SKY CONDITIONS: clear, high winds

~ BURST PRESSURE (mb) : 28.47 km

REMARKS: Theri, Ashley, Dave

403.58 MHz - interference from another source

Ventilation Holes: _____

weighoff = 2200 grams

*T100 flow corr (%) = [(WET/DRY)-1.0] X 100