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

DIGITAL OZONESONDE CHECKLIST

FLT # HU493

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 01/19/08
INITIALS: SL
PUMP NUMBER: 27293

PUMP CURRENT: 81.32
PUMP PRESSURE: 8.5
PUMP VACUUM: 23

30 MINUTES HI O_3 ✓(√)
5 MINUTE NO O_3 ✓(√)

ADD 3.0 CC CATHODE SOLUTION: ✓(√)
WAIT 2 MINUTES: ✓(√)
ADD 1.5 CC ANODE SOLUTION: ✓(√)
RUN 20 MINUTES ON NO O_3 ✓(√)

Short the cell leads: ✓(√)
Add about 2.5 CC more Cathode Solution (2Z) ✓(√)
Place Instrument inside plastic bag: ✓(√)
Store inside Styrofoam flight box: ✓(√)

Record the current after the 20 MINUTES ON NO O_3: = 0.318 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 02/02/08
INITIALS: SL
Cathode solution date written on bottle: 8-24-07
CHANGE CATHODE SOLUTION (3cc): ✓ (√)
CHANGE ANODE SOLUTION (1.5cc): ✓ (Yes/No)
RUN ON NO O_3 FOR 5 MINUTES: ✓ (√)
RECORD THE NO O_3 BACKGRND#1: **BG1**=0.012 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.32 sec
FLOWRATE #2: 28.33
FLOWRATE #3: 28.20
FLOWRATE #4: 28.27
FLOWRATE #5 28.20
AVERAGE T100: 28.26

DRY T100
#1: 28.38
#2: 28.37
#3: 28.40
DRY AVG: 28.40

WET T100
#1: 29.06
#2: 28.97
#3: 28.95
WET AVG: 28.99

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 26.08 sec.
RECORD: ROOM TEMP (C) 20 ROOM REL. HUMID. (%) 23
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 2.08 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU493
GMT DATE : 02/02/08
GMT LAUNCH TIME : 18:59

LOCAL DATE: 02/02/08
LOCAL TIME: 12:59

BALLOON TYPE 1200 **Gram :** Kaymont ✓ Scientific Sales ____ (√ one)

O_3 BACKGROUND (µamps from F9 key): 0.012

VAISALA NUMBER (9 digit): 320303413
SURFACE PRESSURE: ____
SURFACE TEMP. (C): ____
SURFACE HUMIDITY : ____

SKY CONDITIONS: clear, light breeze

~ BURST PRESSURE (mb) : 9.909
burst at: 30.85 km

REMARKS: ____

weighoff = ____ grams

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