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

FLT # Hn500

DIGITAL OZONESONDE CHECKLIST

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 3-8-08
INITIALS: DLN
PUMP NUMBER: 277302

PUMP CURRENT: 97.14
PUMP PRESSURE: 9
PUMP VACUUM: 20

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: = 0.222 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 3/22/2008
INITIALS: B
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**= 0.01 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.57 sec
FLOWRATE #2: 28.67
FLOWRATE #3: 29.02
FLOWRATE #4: 28.80
FLOWRATE #5 28.60
AVERAGE T100: 28.72

DRY T100
#1: 28.39
#2: 28.27
#3: 28.43
DRY AVG: 28.36

WET T100
#1: 28.72
#2: 28.81
#3: 28.84
WET AVG: 28.79

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 30.50 sec.
RECORD: ROOM TEMP (C) 19 ROOM REL. HUMID. (%) 32
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.5 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hn 500
GMT DATE : 3/22/08
GMT LAUNCH TIME : 1859
LOCAL DATE: 3/22/08
LOCAL TIME: 1359

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

O_3 BACKGROUND (µamps from F9 key): 0.010

VAISALA NUMBER (9 digit): 32030104
SURFACE PRESSURE: ~
SURFACE TEMP. (C): ~
SURFACE HUMIDITY : ~

SKY CONDITIONS: ____
~ BURST PRESSURE (mb) : ____

REMARKS: No O_3 Data... Had to restart Strato - no result
Shut down early b/c no data coming in

weighoff = ____ grams

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