U.S. DEPT. MERCE
NATIONAL OCE. ND ATMOSPHERIC ADMINISTRATION
CLIMATE MONITORING AND DIAGNOSTICS LABORATORY

FLT # HU515

DIGITAL OZONESONDE CHECKLIST **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 6/14/08
INITIALS: SL
PUMP NUMBER: 227527

PUMP CURRENT: 89.81
PUMP PRESSURE: 710
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: = 0.317 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 6/28/08
INITIALS: SL
Cathode solution date written on bottle: 5/24/07
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**= 0.017 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.83 sec
FLOWRATE #2: 28.~~97~~76
FLOWRATE #3: 28.~~95~~70
FLOWRATE #4: 28.~~99~~77
FLOWRATE #5 28.75
AVERAGE T100: 28.76

DRY T100
#1: 28.57
#2: 28.~~71~~57
#3: 28.57
DRY AVG: 28.57

WET T100
#1: 28.99
#2: 28.89
#3: 28.99
WET AVG: 28.96

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 24.04 sec.
RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 65
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.37%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU515
GMT DATE : 6/28/08
GMT LAUNCH TIME : 18:05

LOCAL DATE: 6/28/08
LOCAL TIME: 13:05

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

O_3 BACKGROUND (µamps from F9 key): 0.017

VAISALA NUMBER (9 digit): 21911 0444
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: partly cloudy
strong gusts to SE

~ BURST PRESSURE (mb) : 6.026 at 34.94 km

REMARKS:

weighoff =_____ grams

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