FLT # HU594

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

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/24/09
INITIALS: SL
PUMP NUMBER: Z8527

PUMP CURRENT: 92.78
PUMP PRESSURE: >10
PUMP VACUUM: 21

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: = 0.519 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/7/09
INITIALS: WTC
Cathode solution date written on bottle: 4/17/09
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**= 0.019 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.91 sec
FLOWRATE #2: 28.92
FLOWRATE #3: 28.80
FLOWRATE #4: 28.86
FLOWRATE #5 28.78
AVERAGE T100: 28.85

DRY T100
#1: 27.93
#2: 27.94
#3: 28.03
DRY AVG: 27.96

WET T100
#1: 28.45
#2: 28.33
#3: 28.43
WET AVG: 28.40

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 32.24 sec.
RECORD: ROOM TEMP (C) 20 ROOM REL. HUMID. (%) 24
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.57 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU594
GMT DATE : 11/07/09
GMT LAUNCH TIME : 8:13:07

LOCAL DATE: 11/07/09
LOCAL TIME: 13:13:07

BALLOON TYPE 1200 **Gram :** Kaymont___ Scientific Sales___ (√ one)

O_3 BACKGROUND (µamps from F9 key):

VAISALA NUMBER (9 digit): T2310S704
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: Clear

~ BURST PRESSURE (mb) : 7.37
Altitude: 32.77

REMARKS:

weighoff =_____ grams

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