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

FLT # HU599

DIGITAL OZONESONDE CHECKLIST

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/21/09
INITIALS: BL
PUMP NUMBER: 27855O

PUMP CURRENT: 93.04
PUMP PRESSURE: 210
PUMP VACUUM: 22

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: = 0.481 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/12
INITIALS: BM
Cathode solution date written on bottle: 06/17/09
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**= 0.027 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓(√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.03 sec
FLOWRATE #2: 28.25
FLOWRATE #3: 27.94
FLOWRATE #4: 27.93
FLOWRATE #5 27.97
AVERAGE T100: 28.02

DRY T100
#1: 27.81
#2: 27.59
#3: 27.69
DRY AVG: 27.70

WET T100
#1: 28.12
#2: 28.16
#3: 28.13
WET AVG: 28.14

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 27.25 sec.
RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 9
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 1.59 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU599
GMT DATE : 12/12/09
GMT LAUNCH TIME : _____

LOCAL DATE: 12/12/09
LOCAL TIME: _____

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

O_3 BACKGROUND (µamps from F9 key): _____

VAISALA NUMBER (9 digit): 30901049
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: _____

~ BURST PRESSURE (mb) : _____

REMARKS: _____

weighoff = _____ grams

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