

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

FLT # Hu573

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 05/30/09
INITIALS: B
PUMP NUMBER: 228239

PUMP CURRENT: 75.04
PUMP PRESSURE: 210
PUMP VACUUM: 24

30 MINUTES HI O₃ (v)
5 MINUTE NO O₃ (v)

ADD 3.0 CC CATHODE SOLUTION: (v)
WAIT 2 MINUTES: (v)
ADD 1.5 CC ANODE SOLUTION: (v)
RUN 20 MINUTES ON NO O₃: (v)
Record the current after the 20 MINUTES ON NO O₃: = 0.127 μ amps

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

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 6/13/09
INITIALS: B

Cathode solution date written on bottle: 4/17/09
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1=0.023 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.97 sec
FLOWRATE #2: 28.79
FLOWRATE #3: 28.78
FLOWRATE #4: 28.81
FLOWRATE #5: 28.89

DRY T100
#1: 28.04
#2: 28.03
#3: 27.99
DRY AVG: 28.02
WET T100
#1: 28.58
#2: 28.63
#3: 28.49
WET AVG: 28.57

AVERAGE T100: 28.85

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 25.10 sec.

RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 66

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.96 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hu573
GMT DATE: 6/13/09
GMT LAUNCH TIME: 1800

LOCAL DATE: 6/13/09
LOCAL TIME: 1300

BALLOON TYPE 7400 Gram: Kaymont Scientific Sales _____ (v one)

O₃ BACKGROUND (μ amps from F9 key): 0.023

VAISALA NUMBER (9 digit): 723200605
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: _____

- BURST PRESSURE (mb): Unk

REMARKS: _____

weighoff = _____ grams

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