

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

FLT # HU506

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 4/12/08
INITIALS: SL
PUMP NUMBER: 277464

PUMP CURRENT: 107.85
PUMP PRESSURE: >10
PUMP VACUUM: 22

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)

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)

Record the current after the 20 MINUTES ON NO O₃: = 0.383 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/26/08
INITIALS: SL

Cathode solution date written on bottle: 8/24/07
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=0.014 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.77 sec
FLOWRATE #2: 28.80
FLOWRATE #3: 28.80
FLOWRATE #4: 28.75
FLOWRATE #5: 28.81

AVERAGE T100: 28.79

DRY T100

#1: 28.33
#2: 28.35
#3: 28.42
DRY AVG: 28.37

WET T100

#1: 28.85
#2: 28.95
#3: 28.98
WET AVG: 28.93

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 24.59 sec.

RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 49

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.97%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU506

GMT DATE: 4/26/08

GMT LAUNCH TIME: 13:41

LOCAL DATE: 4/26/08

LOCAL TIME: 13:41

BALLOON TYPE 1200 Gram : Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): 0.014

VAISALA NUMBER (9 digit): 320303408

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: overcast, light wind

~ BURST PRESSURE (mb) : _____ at 31.42km

REMARKS: launched at 13:30 for TES overpass

weighoff = _____ grams

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