

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

FLT # HU485

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11-03-07/11-29-07 PUMP CURRENT: 73.3 / 89.48 30 MINUTES HI O₃ (v) /
INITIALS: SL / SL PUMP PRESSURE: >10 / >10 5 MINUTE NO O₃ (v) /
PUMP NUMBER: 227240 PUMP VACUUM: 23 / 24

ADD 3.0 CC CATHODE SOLUTION: (v) / Short the cell leads: (v) /
WAIT 2 MINUTES: (v) / Add about 2.5 CC more Cathode Solution (2Z) (v) /
ADD 1.5 CC ANODE SOLUTION: (v) / Place Instrument inside plastic bag: (v) /
RUN 20 MINUTES ON NO O₃ (v) / Store inside Styrofoam flight box: (v) /
Record the current after the 20 MINUTES ON NO O₃: = 0.294 μ amps / 0.714

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11-17-07 12-8-07
INITIALS: DLN

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= 0.034 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v) /

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.67 sec
FLOWRATE #2: 28.68
FLOWRATE #3: 28.75
FLOWRATE #4: 28.60
FLOWRATE #5: 28.67
AVERAGE T100: 28.67

DRY T100

#1: 28.29
#2: 28.23
#3: 28.26
DRY AVG: 28.26

WET T100

#1: 28.84
#2: 28.93
#3: 28.90
WET AVG: 28.89

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 22.81 sec.
RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 45
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 2.23%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU485
GMT DATE: 12-8-07 LOCAL DATE: _____
GMT LAUNCH TIME: 19:00 LOCAL TIME: 13:00

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

O₃ BACKGROUND (μ amps from F9 key): 0.034

VAISALA NUMBER (9 digit): 320510206 SKY CONDITIONS: Overcast, rainy
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____ ~ BURST PRESSURE (mb): _____

REMARKS: Cell current was not rising to 5 microamps, changed solution again. Sonde re-conditioned w/ new test unit on 11/29/07.

weighoff = _____ grams

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