



MISSOURI DEPARTMENT OF AGRICULTURE  
 DIVISION OF WEIGHTS, MEASURES AND CONSUMER PROTECTION  
 LAND SURVEY PROGRAM  
**OBSERVATION LOG**

<b>OBSERVATION LOG</b>					
STATION DESIGNATION		STATION PID, IF ANY		DATE (UTC)	
GENERAL LOCATION		AIRPORT ID, IF ANY		STATION SERIAL NUMBER (SSN)	
OTHER STATIONS OBSERVED DURING THIS SESSION (IF KNOWN)		SESSION ID (A,B,C ETC.)		STATION 4-CHARACTER ID	
NAD83 LATITUDE		NAD83 LONGITUDE		NAD83 ELLIPSOIDAL HEIGHT	
				Meters	
OBSERVATION SESSION TIMES (UTC)		EPOCH INTERVAL =		NAVD88 ORTHOMETRIC HEIGHT	
Schedule Start _____ Stop _____		Seconds		Meters	
Actual Start _____ Stop _____		ELEVATION MASK =		GEOID09 GEOID HEIGHT	
		Degrees		Meters	
AGENCY FULL NAME		OPERATOR FULL NAME/MIDDLE INITIAL		PHONE NUMBER	
				E-MAIL ADDRESS	
<b>RECEIVER AND ANTENNA</b>					
RECEIVER BRAND AND MODEL			ANTENNA CODE*, BRAND AND MODEL		
P/N			P/N		
S/N			S/N		
Firmware Version <input type="checkbox"/> Camcorder Battery <input type="checkbox"/> 12V DC <input type="checkbox"/> 110V AC <input type="checkbox"/> Other _____			CABLE LENGTH, METERS		
CHECK YES OR NO.			CHECK YES OR NO.		
Antenna Plumb Before Session? <input type="checkbox"/> YES <input type="checkbox"/> NO			Antenna Radome Used? <input type="checkbox"/> YES <input type="checkbox"/> NO		
Antenna Plumb After Session? <input type="checkbox"/> YES <input type="checkbox"/> NO			Eccentric Occupation (>0.5MM)? <input type="checkbox"/> YES <input type="checkbox"/> NO		
Antenna Oriented to True North? <input type="checkbox"/> YES <input type="checkbox"/> NO			Any Obstructions Above 10°? <input type="checkbox"/> YES <input type="checkbox"/> NO		
Weather Observed at Antenna Height? <input type="checkbox"/> YES <input type="checkbox"/> NO			Radio Interference Source Nearby? <input type="checkbox"/> YES <input type="checkbox"/> NO		
Antenna Ground Plane Used? <input type="checkbox"/> YES <input type="checkbox"/> NO			IF YES, USE VISIBILITY FORM TO DESCRIBE		
IF NO, PLEASE EXPLAIN					
<b>TRIPOD OR ANTENNA MOUNT</b>					
TRIPOD OR ANTENNA MOUNT. CHECK ONE. <input type="checkbox"/> Fixed-leg Tripod <input type="checkbox"/> Collapsible-leg Tripod <input type="checkbox"/> Fixed Mount Brand and Model		<b>**ANTENNA HEIGHT**</b>		BEFORE SESSION BEGINS	
				METERS      FEET	
P/N		A = Datum point to Top of Tripod (Tripod Height)			
S/N		B = Additional offset to ARP if any (Tribach/Spacer)			
Last Adjustment Date _____		H = Antenna Height = A + B = Datum Point to Antenna Reference Point (ARP)			
Psychrometer Brand and Model (if used)		Height entered into Receiver = _____ meters		Note and/or sketch ANY unusual conditions. Be very explicit as to where and how measured!	
P/N		Meters = Feet x (0.3048)			
S/N					
Last Calibration or Check Date _____					

**BAROMETER (IF USED)**

BAROMETER BRAND AND MODEL (IF USED)

SERIAL NUMBER

WEATHER DATA	WEATHER CODES	TIMES (UTC)	DRY-BULB TEMP		WET-BULB TEMP		REL % HUMIDITY	ATM PRESSURE	
			FAHRENHEIT	CELSIUS	FAHRENHEIT	CELSIUS		INCHES HG	MILLIBAR
BEFORE									
MIDDLE									
AFTER									

REMARKS, COMMENTS ON PROBLEMS, SKETCHES, PENCIL RUBBING, ETC.

Weather Codes are required. Weather data are optional but encouraged. \*Antenna code comes from ant\_info file furnished by project coordinator.

DATA FILE NAME(S)

(STANDARD XXX FORMAT = aaaaSddd.xxx)

aaaa = 4 digit SSN ID S = Session ID

ddd = Day of Year xxx = file dependent extension

Updated Station Description  Attached  Submitted earlier  
 Visibility Obstruction Form  Attached  Submitted earlier  
 Photographs of Station  Attached  Submitted earlier  
 Pencil Rubbing of Mark  Attached  Submitted earlier

LOG CHECKED BY

**TABLE OF WEATHER**

CODE	PROBLEM	VISIBILITY	TEMPERATURE	CLOUD COVER	WIND
0	did not occur	good, greater than 15 miles	normal, 32°F-80°F	clear, less than 20%	calm, less than 5 mph
1	did occur	fair, 7 to 15 miles	hot, greater than 80°F	cloudy, 20% to 70%	moderate, to 15 mph
2	not used	poor, less than 7 miles	cold, less than 32°F	overcast, greater than 70%	strong, greater than 15 mph

**METADATA FOR STATION OR MARK OCCUPIED DURING SESSION**

APPARENT AUTHORITY AGENCY (CHECK ONE)

- Missouri Department of Agriculture  
 Missouri Department of Agriculture  
 Missouri Land Survey Authority  
 Kansas City Metro  
 National Geodetic Survey Horizontal  
 National Geodetic Survey Vertical  
 National Geodetic Survey Azimuth  
 National Geodetic Survey Reference  
 U.S. Army Corps of Engineers  
 U.S. Geological Survey  
 U.S. C&GS Horizontal  
 U.S. C&GS Vertical  
 Other: \_\_\_\_\_

SURVEY DISK MATERIAL TYPE (CHECK ONE)

- Aluminum  
 Brass  
 Access Cover  
 Other \_\_\_\_\_

MACHINE PRESS OR OTHER STAMPING LOCATED ON SURVEY DISK

- \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SETTING OF SURVEY DISK (CHECK ALL THAT APPLY)

- Concrete Monument  
 Drill hole  
 3-D in pipe  
 Crimped on rod  
 Flush with ground  
 Projecting  
 Below surface  
 Rebar  
 Other \_\_\_\_\_

REMARKS