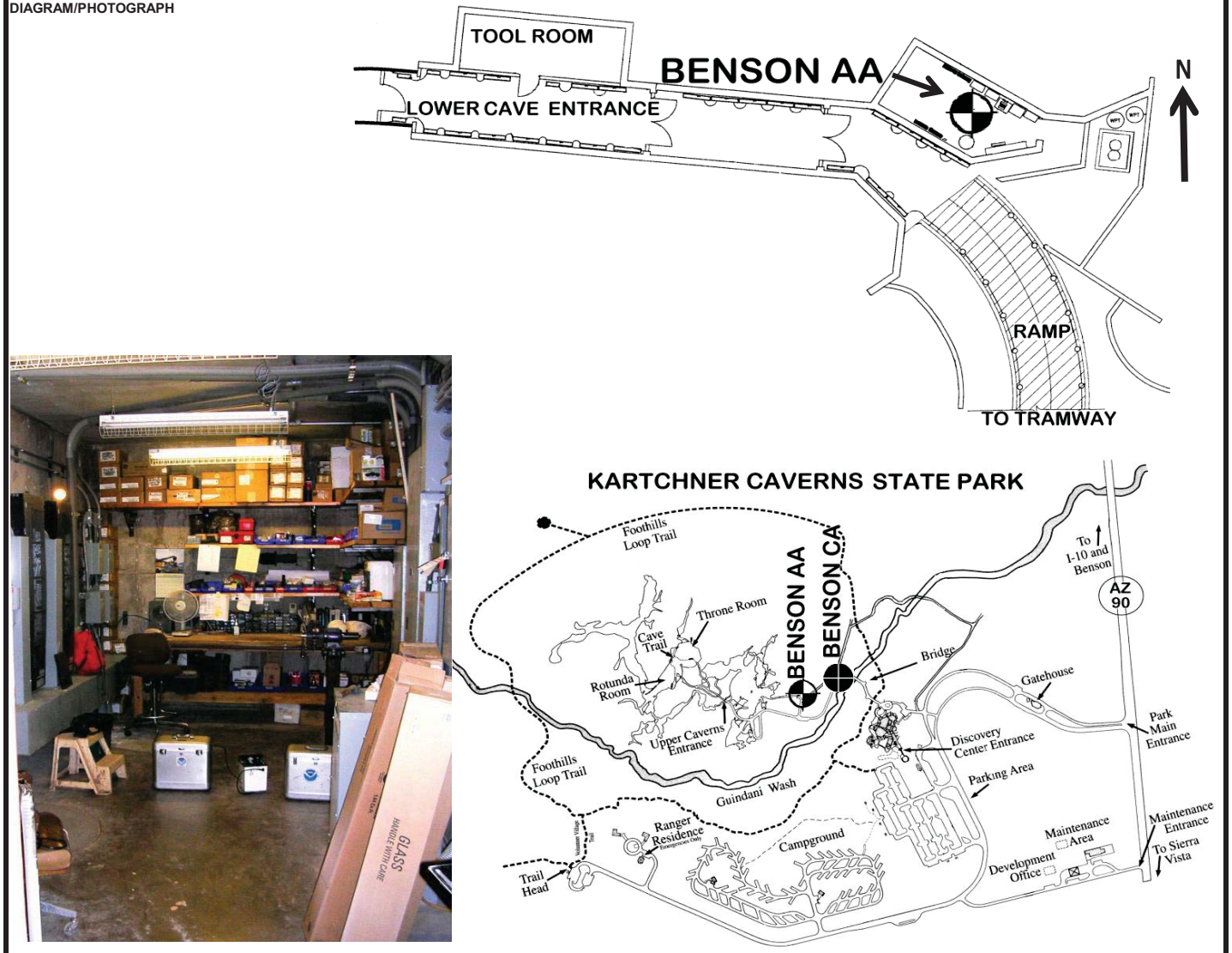


GRAVITY STATION DESCRIPTION	STATION TYPE Absolute Station	STATION DESIGNATION BENSON AA
COUNTRY United States	STATE/PROVINCE - COUNTY Arizona - Cochise	CITY Benson
LATITUDE 31° 50' 16.059" N	LONGITUDE 110° 21' 02.44" W	ELEVATION 1412.62 meters
GRAVITY STATION MARK Gravity disk	AGENCY NOAA-NGS	INSCRIPTION BENSON AA 2005
POSITION/ELEVATION REFERENCE Scaled from GPS obs. on roof	POSTION/ELEVATION SOURCE NOAA-NGS	SOURCE DESCRIPTION --
POSITION/ELEVATION REMARKS	GRAVITY VALUE/SOURCE/DATE g = 979,049.410 ± 0.002 mGals (NOAA-NGS, 6/2007)	

DESCRIPTION/CONTACT
 The station is located at Kartchner Caverns State Park. It is 9.5 mi SSW of Post Office in Benson, AZ. To access from Exit 302 of I-10, go S on AZ 90 for 9.1 mi (= 0.5 mi S of MP 298) and turn W (right) into KCS Park (#2980 S Hwy 90). Go 0.25 mi and turn W (right) into Service Driveway and then an immediate N (right) onto gravel road. Go NE for 0.15 mi and turn NW (left, bending SW) onto Web-Wright Road. Go 0.35 mi to tramway crossing and NW end of bridge. Turn WSW (right) up tramway ramp for 0.06 mi to Lower (or Tarantula or Gurnee) Entrance of cave. Station is in electrical room, just exterior to cave and W of water tanks and accessed by a narrow corridor on NE side of main path. It is 1.2 m SSW of NNE wall with witness sign (between electrical panels GL1 & GL2), 1.7 m NNW of center of sump well and 4.6 m WNW of SE edge of doorway. Disk is cemented flush into concrete floor. Contact is Arizona State Parks at 520-586-4111. C of N ½, NW, SE, NE, SE, Sec 25, T18S, R19E.

OTHER STATION DESIGNATIONS: NN 767 PID:

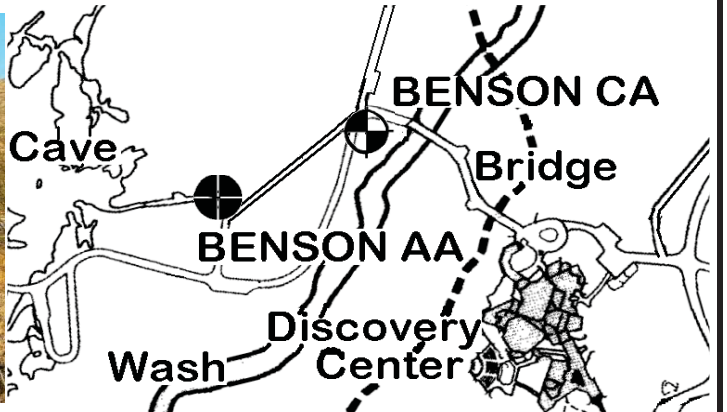
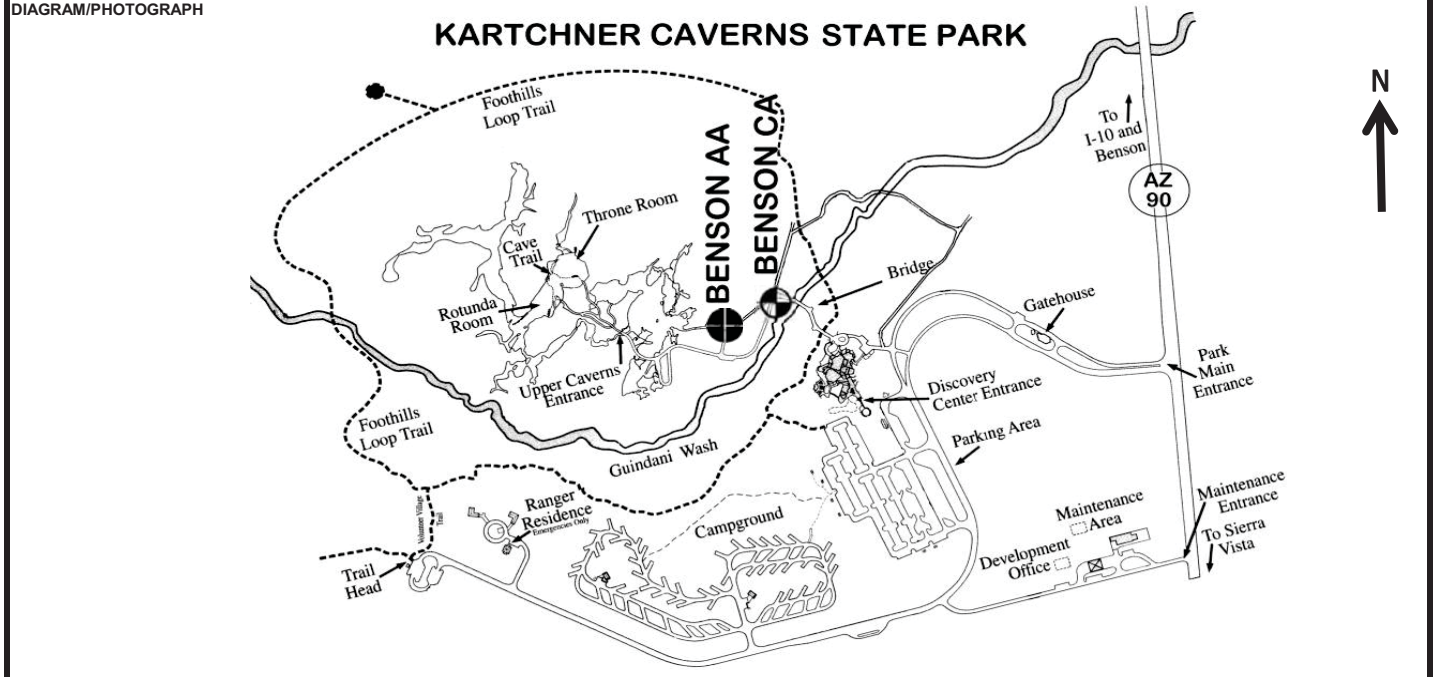


DESCRIPTION BY Daniel Winester	AGENCY NOAA/NOS/NGS	DATE 01 June 2007
------------------------------------------	-------------------------------	-----------------------------

GRAVITY STATION DESCRIPTION	STATION TYPE Absolute Station & Excenter	STATION DESIGNATION BENSON CA
COUNTRY United States	STATE/PROVINCE - COUNTY Arizona - Cochise	CITY Benson
LATITUDE 31° 50' 16.274" N	LONGITUDE 110° 20' 58.830" W	ELEVATION 1406.688 meters
GRAVITY STATION MARK Gravity disk	AGENCY NOAA-NGS	INSCRIPTION BENSON CA 2005
POSITION/ELEVATION REFERENCE Disk position/Disk elevation	POSTION/ELEVATION SOURCE NOAA-NGS	SOURCE DESCRIPTION GPS survey
POSITION/ELEVATION REMARKS OPUS processing	GRAVITY VALUE/SOURCE/DATE g = 979 050.728 ± 0.004 mGals (NOAA-NGS, 11/2006)	

DESCRIPTION/CONTACT
 The station is located at Kartchner Caverns State Park. It is 9.5 mi SSW of Post Office in Benson, AZ. To access from Exit 302 of I-10, go S on AZ 90 for 9.1 mi (= 0.5 mi S of MP 298) and turn W (right) into KCS Park (#2980 S Hwy 90). Go 0.25 mi and turn W (right) into Service Driveway and then an immediate right onto gravel road. Go NE for 0.15 mi and turn NW (left, bending SW) onto Web-Wright Road. Go 0.35 mi to tramway crossing and NW end of bridge and station on left. Station is 15 m S of and 1.1 m below intersection, 12.6 m ESE of C of tramway to SSW, 14.0 m W of W (lower) end of abutment at SW side of NW end of tram bridge and 2.3 m SSW of witness sign. Disk is set in 0.5 m wide, square, concrete post, which projects 5 cm and has eye bolt at E side. Contact is Arizona State Parks at 520-586-4111. C of E ½, NE, SE, NE, SE, Sec 25, T18S, R19E.

OTHER STATION DESIGNATIONS: NN 768 PID:



DESCRIPTION BY Daniel Winester	AGENCY NOAA/NOS/NGS	DATE 01 June 2007
-----------------------------------	------------------------	----------------------

GRAVITY STATION DESCRIPTION	STATION TYPE Absolute Station	STATION DESIGNATION PALOMINAS AA
COUNTRY United States	STATE/PROVINCE - COUNTY Arizona - Cochise	CITY Palominas
LATITUDE 31° 23' 18.4" N	LONGITUDE 110° 07' 19.5" W	ELEVATION 1294.3 meters
GRAVITY STATION MARK 2 cm brass plug	AGENCY NOAA-NGS	INSCRIPTION PALOMINAS AA 2001
POSITION/ELEVATION REFERENCE Scaled from PALOMINAS DA	POSTION/ELEVATION SOURCE NOAA-NGS	SOURCE DESCRIPTION --
POSITION/ELEVATION REMARKS	GRAVITY VALUE/SOURCE/DATE g = 979,004.928 ± 0.005 mGals (NOAA-NGS, 03/2008)	

DESCRIPTION/CONTACT
 The station is located at Palominas Firehouse #1, Palominas, AZ. It is 14.7 mi SE of Sierra Vista Post Office and 12.6 mi WSW of County Courthouse in Bisbee. To access from the intersection of routes AZ 90 and AZ 92 in Sierra Vista, go S, then E, on AZ 92 for 18.8 mi to MP 339.9. Turn N (left) on S. Palominas Road and go 0.6 mi to firehouse on right at #9903 at SE corner with E. Mariposa Ave. Station is in SE-most room (S part of garage bay), 1.5 m N of S wall and witness sign, 2.0 m W of E wall, 2.1 m E of SE corner of cage and 12.7 m S of E of two, roll-up, truck doors. Plug is epoxyed flush into concrete floor. Contact is Palominas Fire District at 520-803-9919. W side, SW, NW, SW, SW, NW, Sec 33, T 23S, R22E.

OTHER STATION DESIGNATIONS: NN 774 PID: DH4270

DIAGRAM/PHOTOGRAPH

DESCRIPTION BY Daniel Winester	AGENCY NOAA/NOS/NGS	DATE 26 March 2008
-----------------------------------	------------------------	-----------------------

GRAVITY STATION DESCRIPTION	STATION TYPE Absolute Excenter	STATION DESIGNATION PALOMINAS DA
COUNTRY United States	STATE/PROVINCE - COUNTY Arizona - Cochise	CITY Palominas
LATITUDE 31° 23' 18.908" N	LONGITUDE 110° 07' 20.010" W	ELEVATION 1294.476 meters
GRAVITY STATION MARK Triangulation & BM Disk	AGENCY USGS	INSCRIPTION PALOMINAS DA 2001
POSITION/ELEVATION REFERENCE Disk position/Disk elevation	POSTION/ELEVATION SOURCE NOAA-NGS	SOURCE DESCRIPTION GPS survey
POSITION/ELEVATION REMARKS OPUS processing	GRAVITY VALUE/SOURCE/DATE g = 979,004.950 ± 0.003 mGals (NOAA-NGS, 11/2006)	

DESCRIPTION/CONTACT
 The station is located at Palominas Firehouse #1, Palominas, AZ. It is 14.7 mi SE of Sierra Vista Post Office and 12.6 mi WSW of County Courthouse in Bisbee. To access from the intersection of routes AZ 90 and AZ 92 in Sierra Vista, go S, then E, on AZ 92 for 18.8 mi to MP 339.9. Turn N (left) on S. Palominas Road and go 0.6 mi to firehouse on right at #9903 at SE corner with E. Mariposa Ave. Station is on concrete post, set flush with ground, 1.8 m E of and 0.25 m S of S gate post (with witness sign) in fence along W side of firehouse property, 11.5 m E of C of Palominas Road, 13.5 m NW of flagpole and 64 m S of C of E. Mariposa Ave. Contact is Palominas Fire District at 520-803-9919. W side, SW, NW, SW, SW, NW, Sec 33, T 23S, R22E.

OTHER STATION DESIGNATIONS: NN 775 PID: BBCF13

DIAGRAM/PHOTOGRAPH

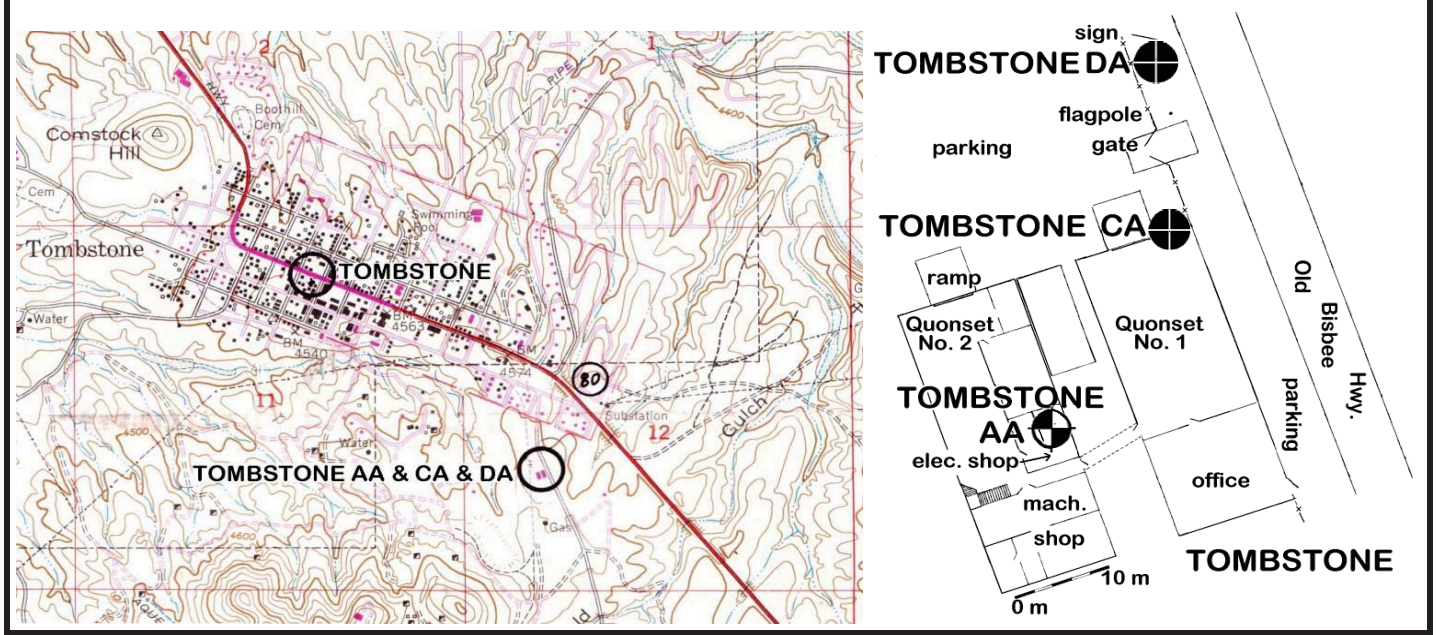
The diagram/photograph section includes a photograph of the Palominas Firehouse #1, a site diagram, and a topographic map. The photograph shows a large, single-story building with a dark roof and a chain-link fence in the foreground. A north arrow is on the right. The site diagram shows the layout of the firehouse with sections for Pumper Truck, Pickup Truck, Tanker Truck, Office, Rest Room, and Cage, along with a flagpole and roll-up doors. The topographic map shows the location relative to the San Pedro River, Palominas AA & DA, and Ullrich Ranch.

DESCRIPTION BY Daniel Winester	AGENCY NOAA/NOS/NGS	DATE 26 March 2008
-----------------------------------	------------------------	-----------------------

GRAVITY STATION DESCRIPTION	STATION TYPE Absolute Station	STATION DESIGNATION TOMBSTONE AA
COUNTRY United States	STATE/PROVINCE - COUNTY Arizona - Cochise	CITY Tombstone
LATITUDE 31° 42' 21.3" N	LONGITUDE 110° 03' 25.88" W	ELEVATION 1409.01 meters
GRAVITY STATION MARK 2 cm brass plug	AGENCY NOAA-NGS	INSCRIPTION TOMBSTONE AA 2000
POSITION/ELEVATION REFERENCE Scaled from GPS at TOMB CA	POSTION/ELEVATION SOURCE NOAA-NGS	SOURCE DESCRIPTION --
POSITION/ELEVATION REMARKS 0.69 m above USDA BM	GRAVITY VALUE/SOURCE/DATE g = 979,037.864 ± 0.003 mGals (NOAA-NGS, 10/2007)	

DESCRIPTION/CONTACT
 The station is located at USDA Agricultural Research Service Walnut Gulch Experimental Water- shed Field Office in SE part of Tombstone, AZ. It is 0.8 mi ESE of Historic Courthouse. To access from Exit 303 of I-10, go SE (E-bound) on AZ 80 (former US 80, becomes Fremont St.) for 14.3 mi. Turn SW (right) then WNW on E. Allen St. at E edge of town and go 0.1 mi. Turn S (left) onto Old Bisbee Hwy and go 0.2 mi to USDA Field Office on right. Station is in Bldg. Q2, the WSW of 2 large, white quonset huts, on E side of middle of bldg., in electronics shop, 16 m S of NNE corner of bldg., 3.95 m N20W of wall near heater, 1.2 m S70W of E exterior wall and 4.5 m NE of bay-entry door to shop. Plug is epoxyed flush into concrete floor. Contact number is 520-457-3321. Center of SE, NW, SW, Sec 12, T20S, R22E.

OTHER STATION DESIGNATIONS: NN 772 PID: DH4265

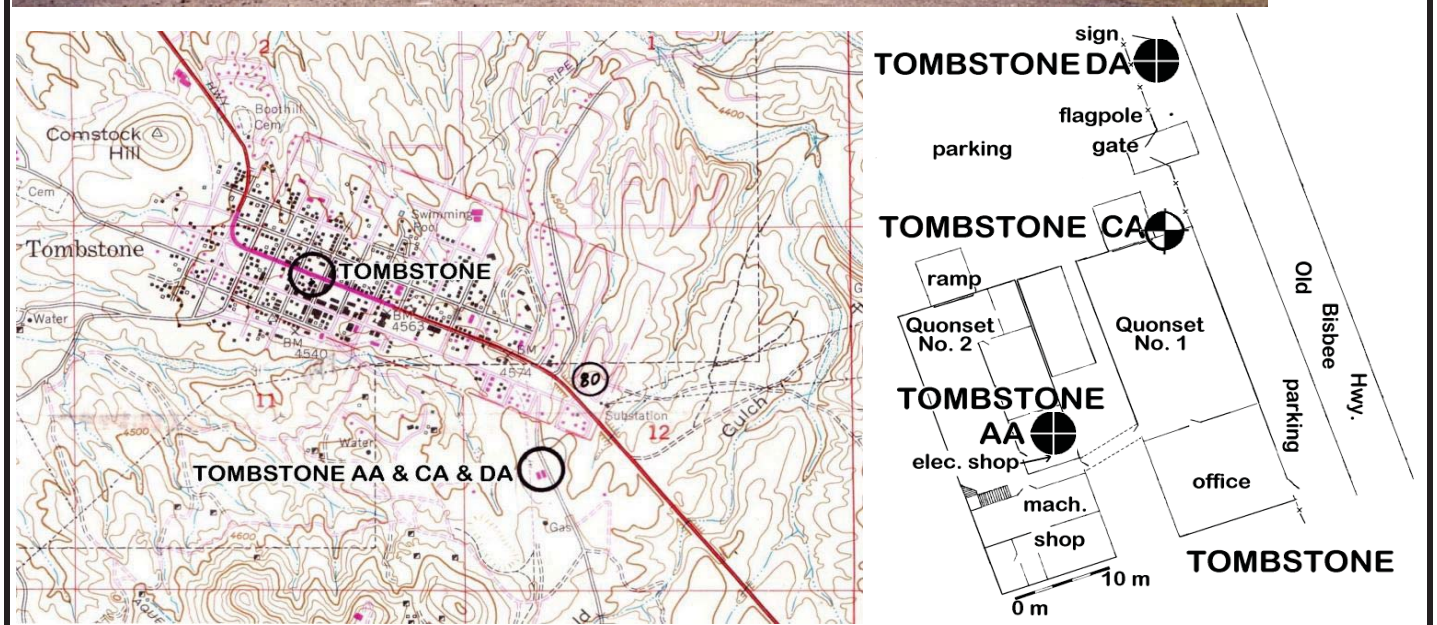


DESCRIPTION BY Daniel Winester	AGENCY NOAA/NOS/NGS	DATE 30 October 2007
-----------------------------------	------------------------	-------------------------

GRAVITY STATION DESCRIPTION	STATION TYPE Absolute Excenter	STATION DESIGNATION TOMBSTONE CA
COUNTRY United States	STATE/PROVINCE - COUNTY Arizona - Cochise	CITY Tombstone
LATITUDE 31° 42' 21.729" N	LONGITUDE 110° 03' 25.492" W	ELEVATION 1408.528 meters
GRAVITY STATION MARK 2 cm plug inside vert pipe	AGENCY NOAA-NGS & USDA	INSCRIPTION TOMBSTONE CA 2000
POSITION/ELEVATION REFERENCE Disk position/Disk elevation	POSTION/ELEVATION SOURCE NOAA-NGS	SOURCE DESCRIPTION GPS survey
POSITION/ELEVATION REMARKS OPUS solution (not USDA elev.)	GRAVITY VALUE/SOURCE/DATE g = 979,037.898 ± 0.004 mGals (NOAA-NGS, 4/2003)	

DESCRIPTION/CONTACT
 The station is located at USDA Agricultural Research Service Walnut Gulch Experimental Watershed Field Office in SE part of Tombstone, AZ. It is 0.8 mi ESE of Historic Courthouse. To access from Exit 303 of I-10, go SE (E-bound) on AZ 80 (former US 80, becomes Fremont St.) for 14.3 mi. Turn SW (right) then WNW on E. Allen St. at E edge of town and go 0.1 mi. Turn S (left) onto Old Bisbee Hwy and go 0.2 mi to USDA Field Office on right. Station is at NE corner of Bldg. Q1, the ENE of 2 large, white quonset huts, 0.43 m N20W of wall, 2.6 m S70W of NE corner (at fence), in a small garden, 1.4 m N70E of E edge of top of concrete ramp, 12.1 m S of flagpole and 11.5 m S70W of center of Old Bisbee Hwy. 2 cm brass plug (faces N) is epoxyed into top of 4.2 cm diameter, vertical steel pipe, itself cemented into center of 0.25 m wide, 0.05 m tall, square concrete post with "WALNUT GULCH OFFICE BM ELEV. 4618.00" plaque on side. BM is top of pipe. Contact number is 520-457-3321. Center of SW, NE, SE, SE, Sec 12, T20S, R22E.

OTHER STATION DESIGNATIONS: NN 773 PID: DH4264



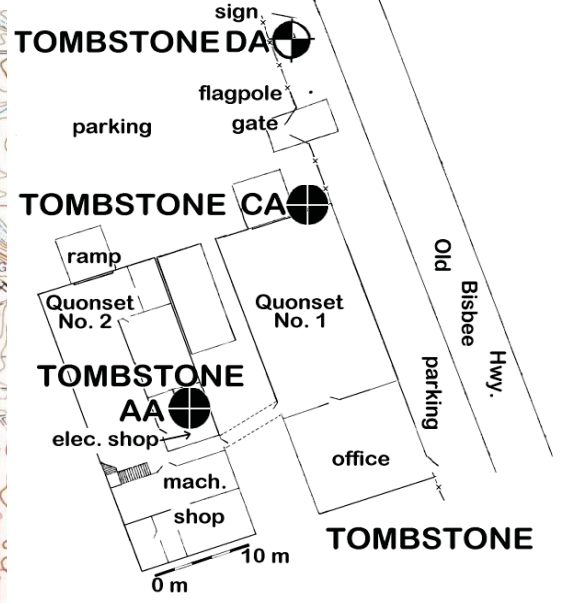
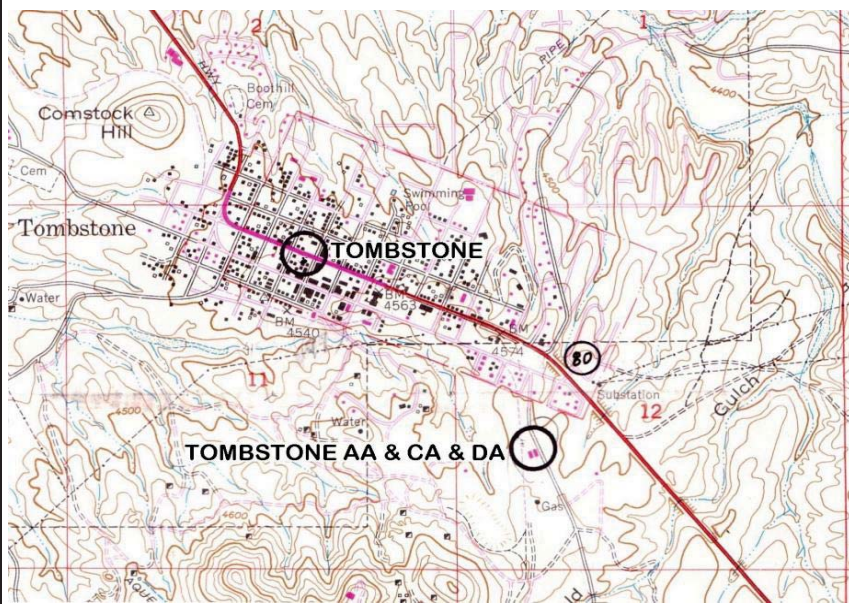
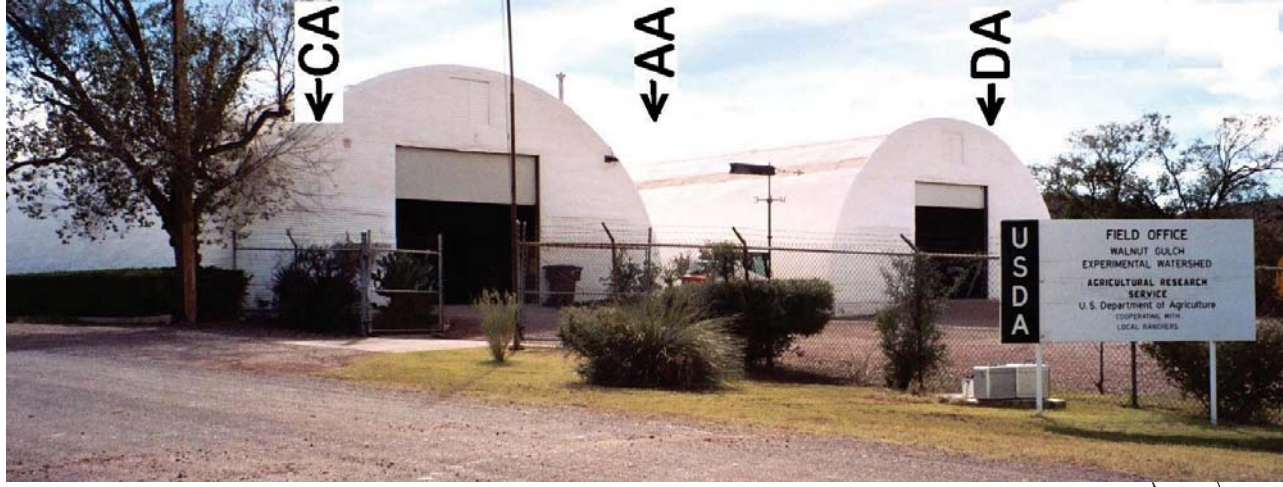
DESCRIPTION BY Daniel Winester	AGENCY NOAA/NOS/NGS	DATE 30 October 2007
-----------------------------------	------------------------	-------------------------

GRAVITY STATION DESCRIPTION	STATION TYPE Absolute Excenter	STATION DESIGNATION TOMBSTONE DA
COUNTRY United States	STATE/PROVINCE - COUNTY Arizona - Cochise	CITY Tombstone
LATITUDE 31° 42' 22.392" N	LONGITUDE 110° 03' 25.669" W	ELEVATION 1407.592 meters
GRAVITY STATION MARK Gravity disk	AGENCY NOAA-NGS	INSCRIPTION TOMBSTONE DA 2003
POSITION/ELEVATION REFERENCE Disk position/Disk elevation	POSTION/ELEVATION SOURCE NOAA-NGS	SOURCE DESCRIPTION GPS survey
POSITION/ELEVATION REMARKS OPUS solution	GRAVITY VALUE/SOURCE/DATE g = 979,038.101 ± 0.003 mGals (NOAA-NGS, 5/2007)	

DESCRIPTION/CONTACT
 The station is located at USDA Agricultural Research Service Walnut Gulch Experimental Watershed Field Office in SE part of Tombstone, AZ. It is 0.8 mi ESE of Historic Courthouse. To access from Exit 303 of I-10, go SE (E-bound) on AZ 80 (former US 80, becomes Fremont St.) for 26.4 mi. Turn SW (right) then WNW on E. Allen St. at E edge of town and go 0.1 mi. Turn S (left) onto Old Bisbee Hwy and go 0.2 mi to USDA Field Office on right. Station is on a 1.2 m by 1.2 m concrete pier with eye-bolt at S corner, 1 m S of E post of Field Office sign, 9 m NNW of flagpole, 21 m NW of N corner of Quonset Bldg. Q1, 8 m SW of center of road and 1.25 m NE of witness sign set in fence. Contact number is 520-457-3321. Center of W ½, NE, SW, NW, SW, Sec 12, T20S, R22E.

OTHER STATION DESIGNATIONS: NN 776 PID: BBCF25

DIAGRAM/PHOTOGRAPH



DESCRIPTION BY Daniel Winester	AGENCY NOAA/NOS/NGS	DATE 30 October 2007
-----------------------------------	------------------------	-------------------------