

Water-Data Report 2006

02290888 CHATHAM RIVER NEAR THE WATSON PLACE, FL

Southern Florida Basin
Everglades Subbasin

LOCATION.--Lat 25°42'33", long 81°14'59" referenced to North American Datum of 1927, Monroe County, FL, Hydrologic Unit 03090202, right bank, 200 yards southwest of Watson Place, approximately 3 mi from the Gulf of Mexico, 10 mi south of Chokoloskee.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 2001 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage was changed to North American Vertical Datum of 1988 (NAVD88), and the MP was changed to 5.314 ft during the 2006 water year.

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minutes data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge, 11,800 ft³/s Sept. 14, 2001; maximum negative, -41,300 ft³/s Oct. 24, 2005 (Hurricane Wilma).

GAGE HEIGHT: Maximum gage height, 4.88 ft Oct. 24, 2005 (Hurricane Wilma); minimum, -2.63 ft Mar. 5, 2002. (Corrected).

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 10,700 ft³/s Oct. 24; maximum negative, -41,300 ft³/s Oct. 24.

GAGE HEIGHT: Maximum gage height, 4.88 ft Oct. 24; minimum, -2.40 ft Jan. 19.

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP, BOTTOM): March 2001 to current year.

WATER TEMPERATURE (TOP, BOTTOM): March 2001 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record are rated excellent, except for the period of Feb. 9 thru Mar. 30, rated fair due to a correction of 11.9%. Salinity (BOTTOM) record are rated excellent, except for the period of Feb.8 thru Mar. 30, rated good due to a correction of 4.2 %. Salinity and temperature sensors located at -2.306 ft based on NAVD88 (TOP) and -4.406 ft based on NAVD88 (BOTTOM). During times of missing record, values may have been higher or lower than the listed extremes. Salinity and temperature, 15 minutes data, are available in files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>.

EXTREMES FOR PERIOD OF RECORD.--

SALINITY (TOP): Maximum recorded, 42.4 ppt Apr.27, 2001, May 3, 2001; minimum recorded, 1.3 ppt Aug. 14, 2003.

SALINITY (BOTTOM): Maximum recorded, 42.9 ppt May 1, 2001; minimum recorded, 1.7 ppt Aug. 14, 2003.

WATER TEMPERATURE (TOP): Maximum recorded, 33.9°C July 26, 2005; minimum recorded, 12.1°C Jan.25, 2003.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.1°C July 26, 2005; minimum recorded, 12.2°C Jan.25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 37.7 ppt May 15; minimum recorded, 2.1 ppt Sept. 23, 24.

SALINITY (BOTTOM): Maximum recorded, 37.8 ppt May 15; minimum recorded, 2.1 ppt Sept. 24.

WATER TEMPERATURE (TOP): Maximum recorded, 33.6°C Aug. 13; minimum recorded, 14.6°C Feb. 14.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.8°C Aug. 13; minimum recorded, 14.8°C Feb. 14.