

Data on Saturn's temperature, zonal wind, and atmospheric stability based on Cassini's long-term (2004–2017) multi-instrument observations (CIRS, ISS, and VIMS) are archived here.

This repository contains the data presented by Wang et al. (2024, JGR-Planets). All datasets used in Figures 2–11 are saved in both Matlab format (*.mat*) and *text files* (.txt). At the beginning of each text file, a brief description of the data content and units is provided.

Matlab was used for data processing and analysis. Guidelines for using Matlab can be found at <https://www.mathworks.com/products/matlab.html>.

Additionally, the Matlab code for the general thermal wind equation, along with the associated input files, has also been archived.