

# Monitoring the radio galaxy M87 with HAWC

(Flash poster talk)



instituto de astronomía

unam



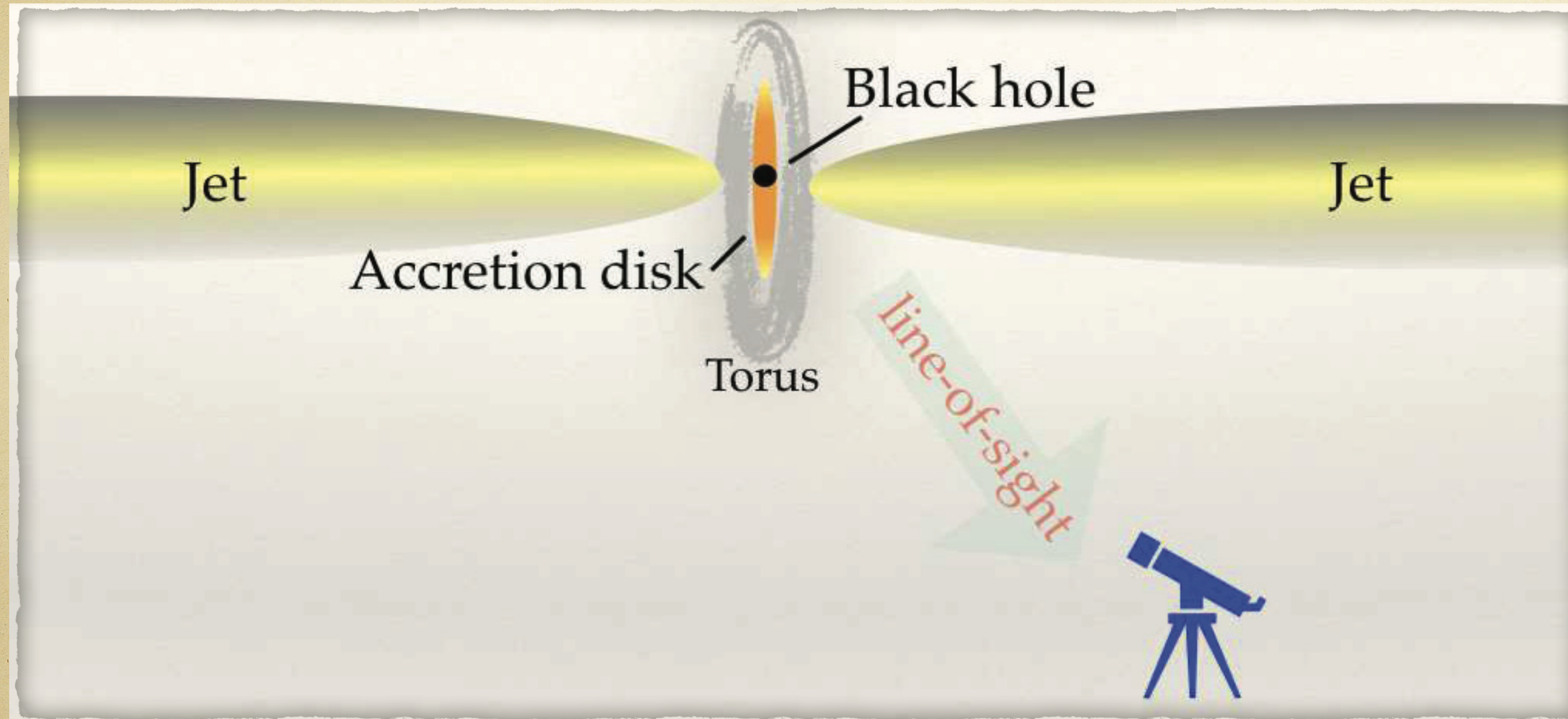
*37th ICRC*

*July 12-23 , 2021*

Tomás Capistrán, Daniel Avila, Magda González, Nissim Fraija,  
Rubén Alfaro and for the HAWC Collaboration



# Radio Galaxy (RG)



Rani, B. (2019). Radio Galaxies—The TeV Challenge. *Galaxies*, 7(1), 23. <https://doi.org/10.3390/galaxies7010023>

## Source

Centaurus A

M87

3C 84

IC 310

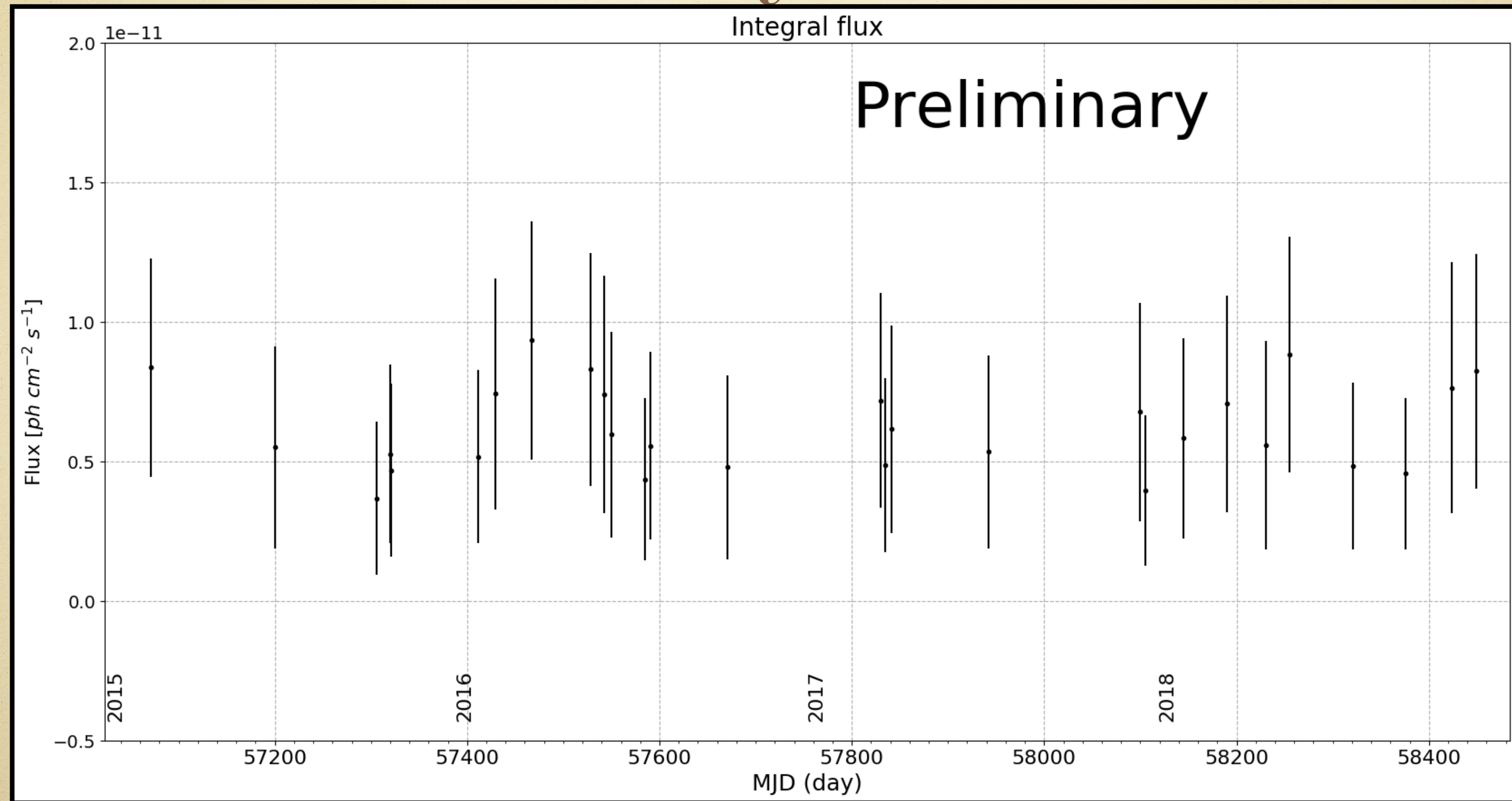
3C 264

PKS 0625-35



M87

# Daily LC



$> 2\sigma$

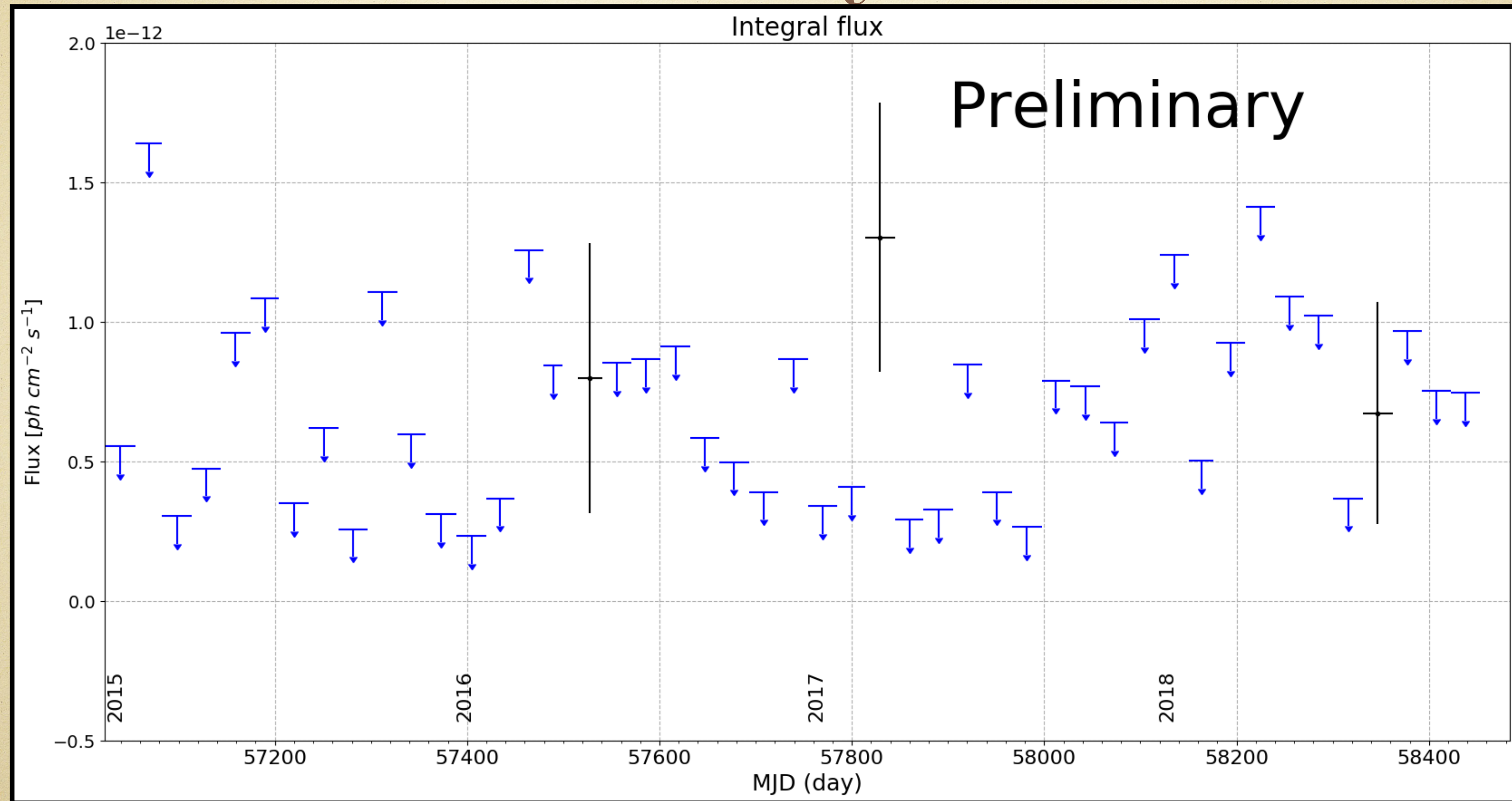
$\sim 4$  years

M87 is monitoring with HAWC Observatory from January 2015 to December 2018



M87

# Monthly LC

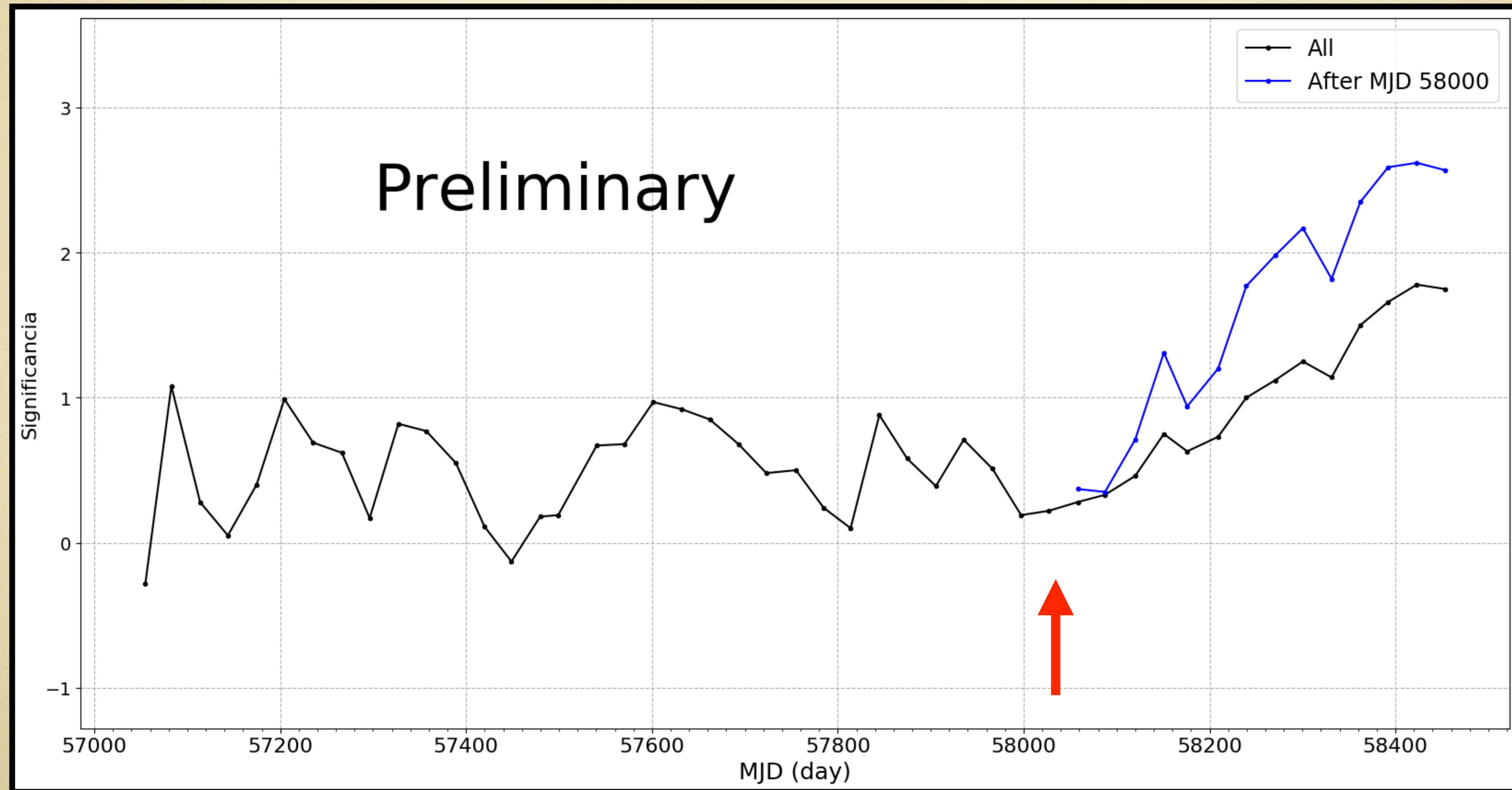


During this period of time, the state of M87 is quiescent.



M87

# Cumulate data



Show an start of activity (emission constant) after September 2017  
(MJD 58000)