The RISE andFAI of HSHwarae A Remarkable Eclipsing Binary Star

Prof. James Davenport, Dr. Diana Windemuth, Karen Warmbein, Erin Howard, Courtney Klein, Jessica Birky







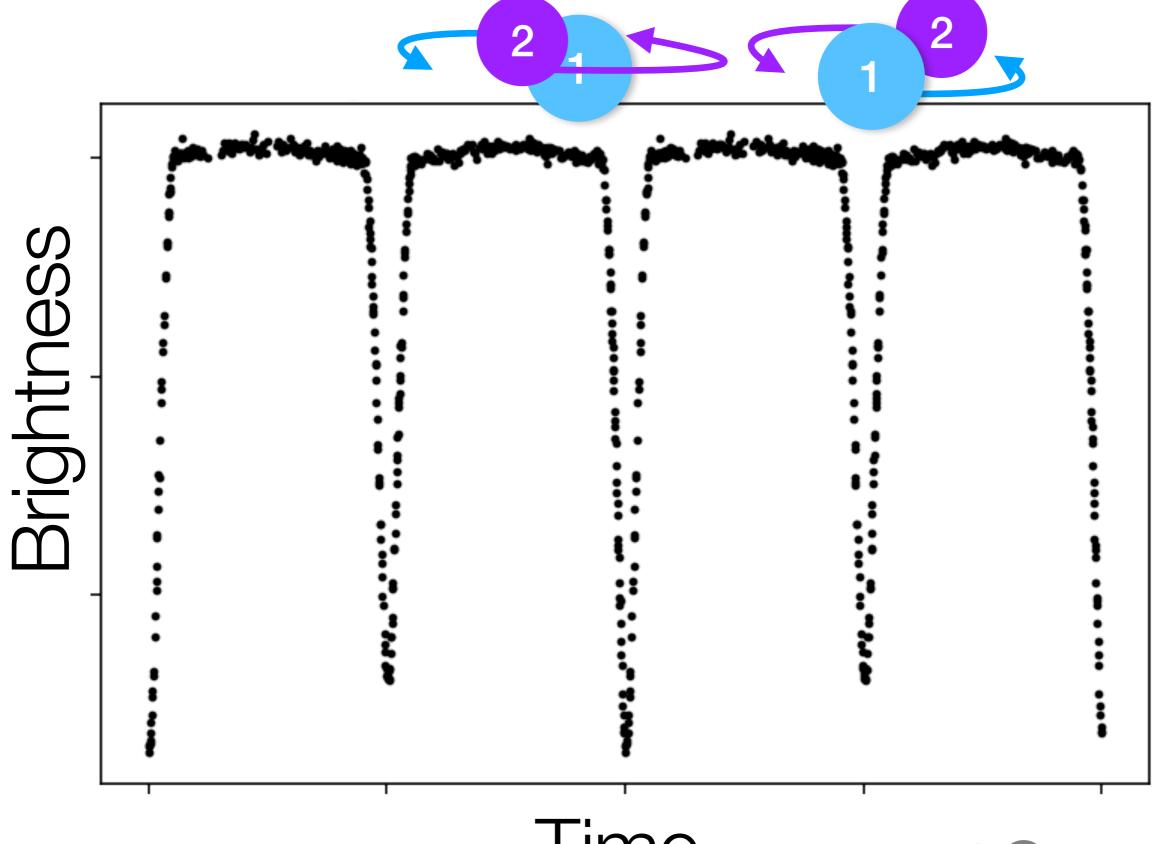




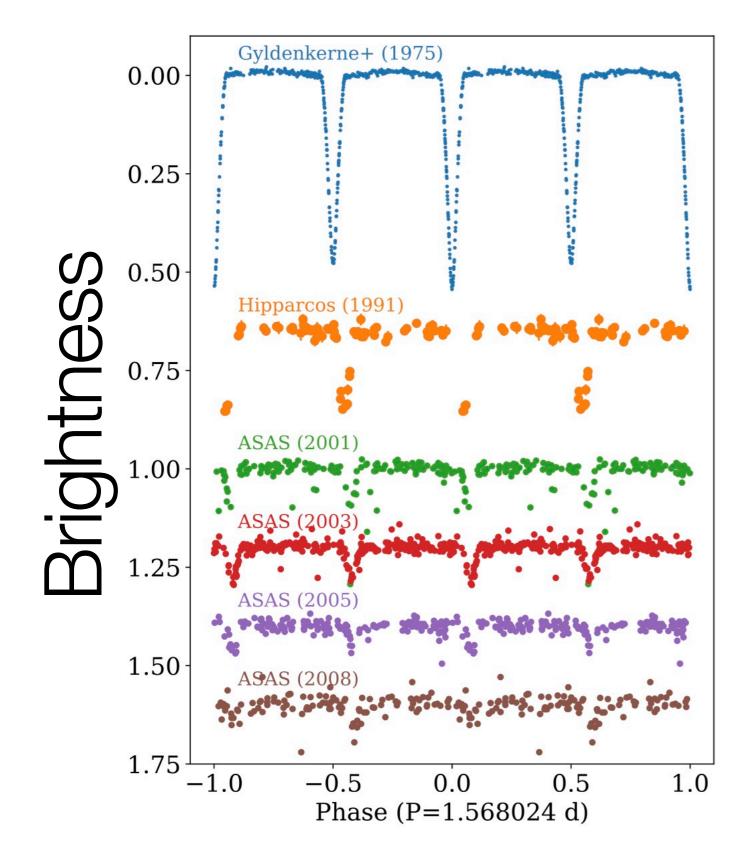




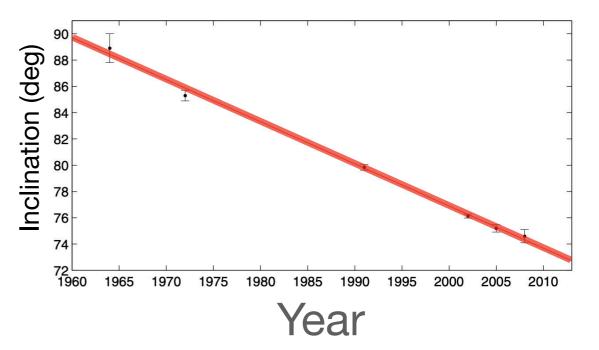
What is an Eclipsing Binary?



A rare type of EB

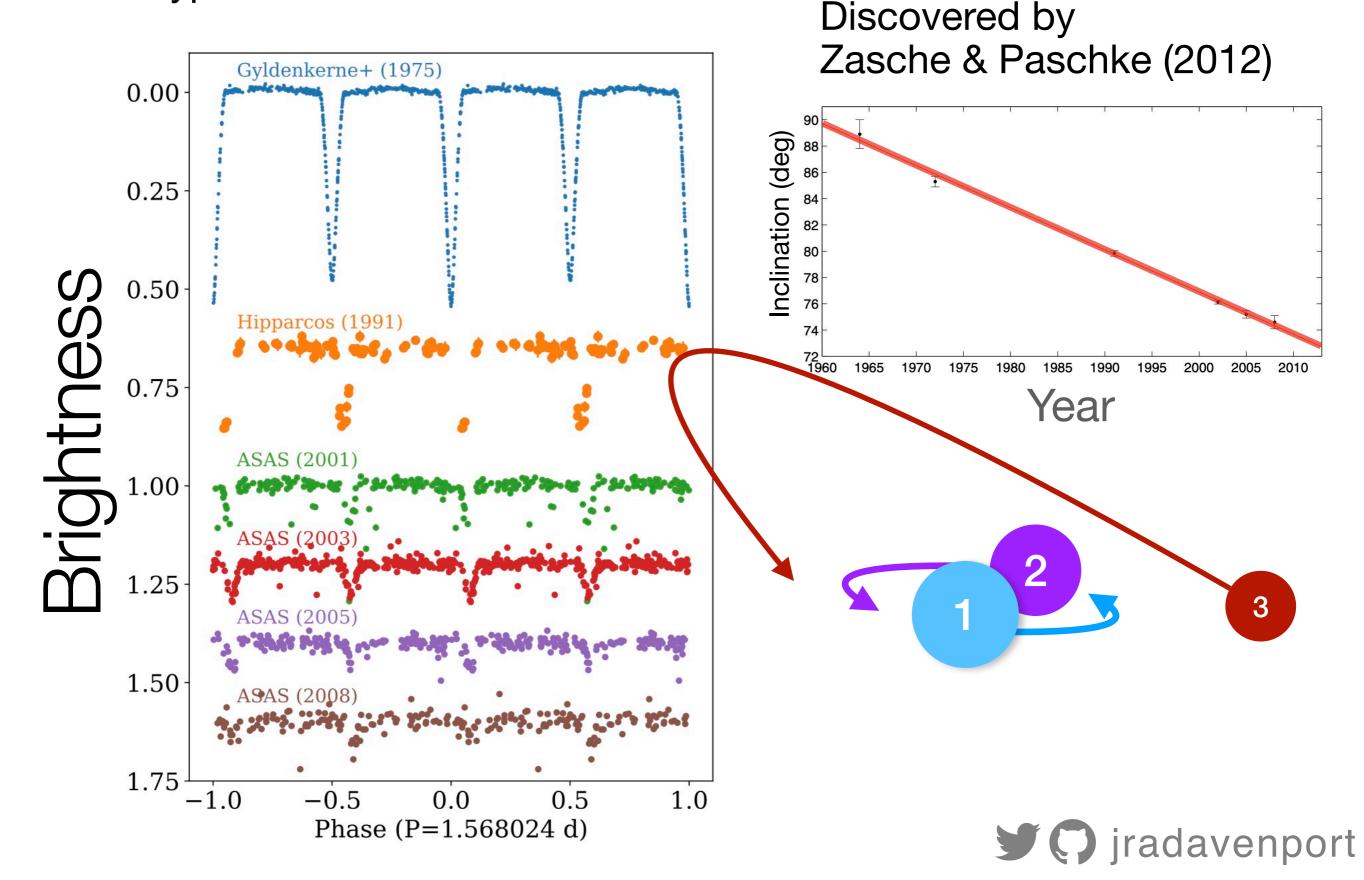


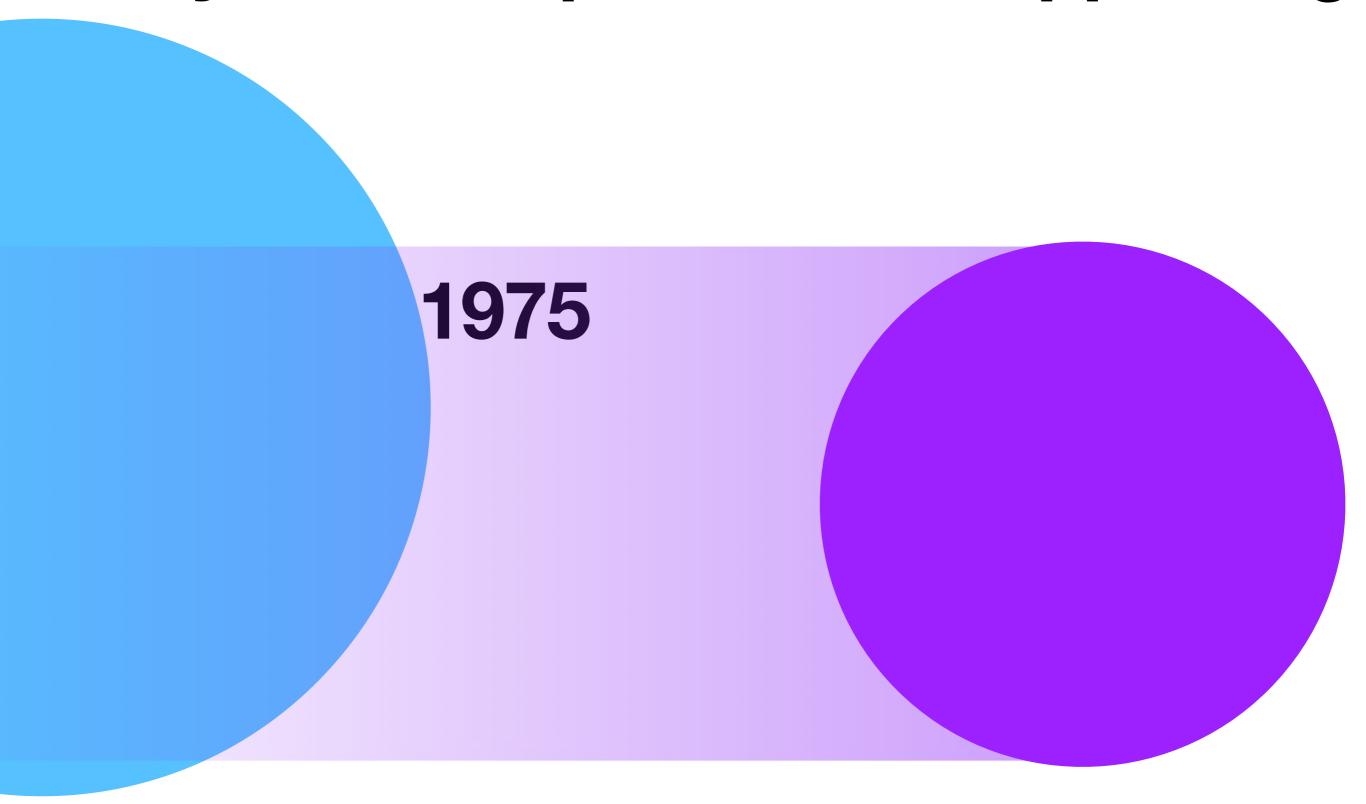
Discovered by Zasche & Paschke (2012)



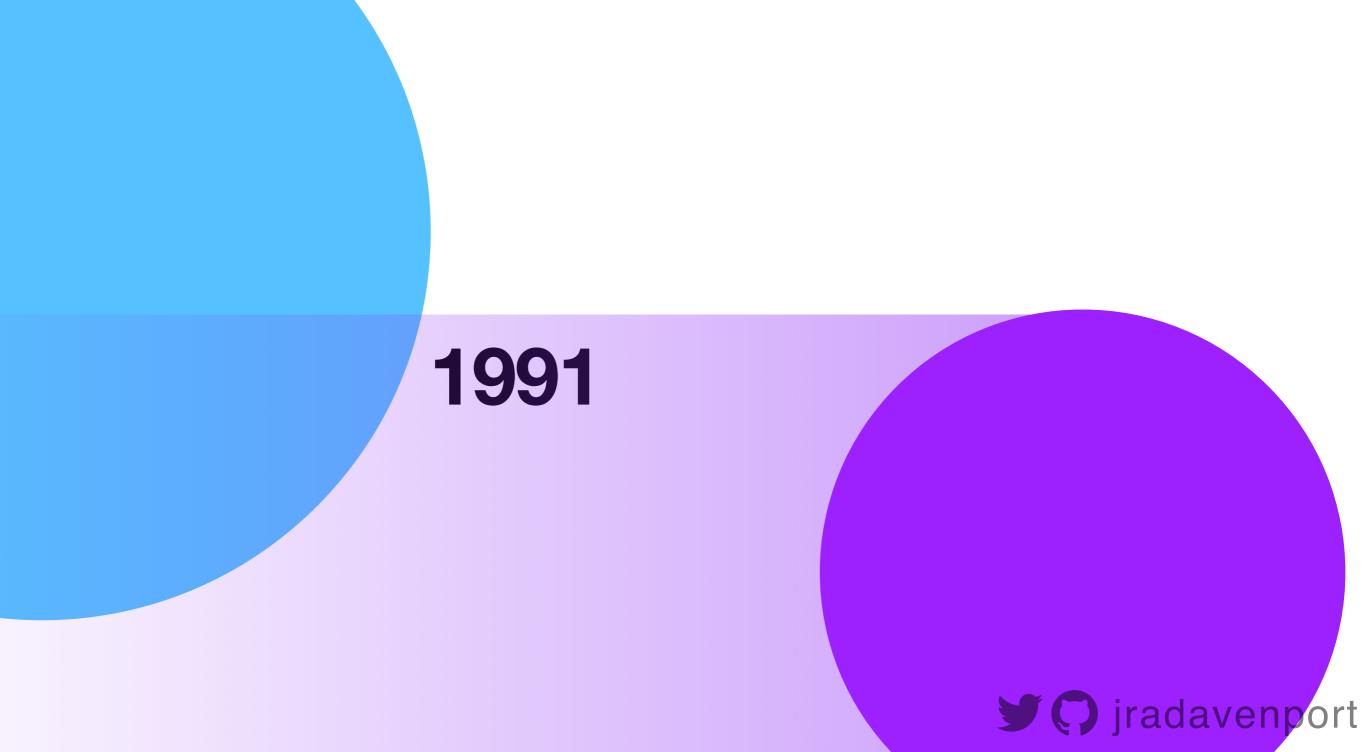


A rare type of EB







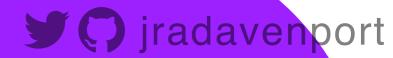






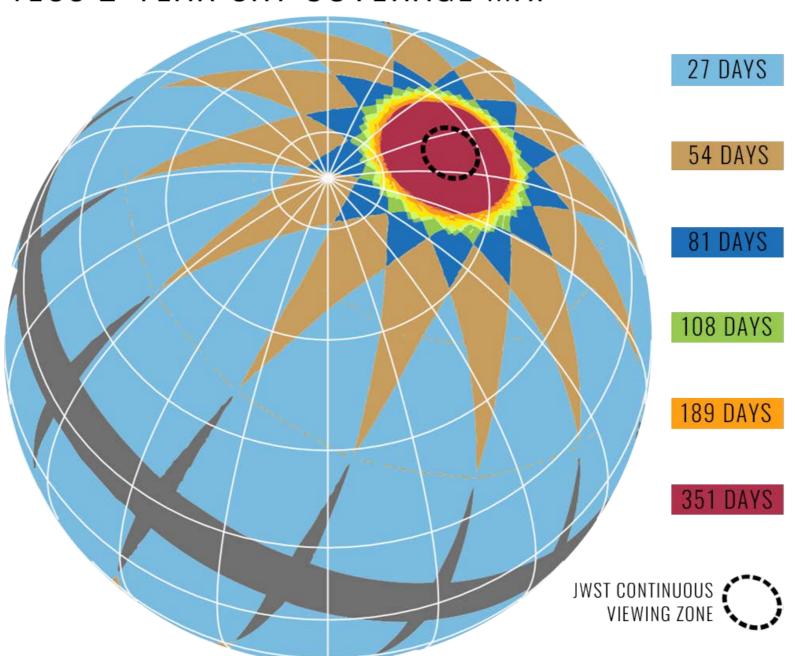
Zasche & Paschke (2012)

Prediction: 2022



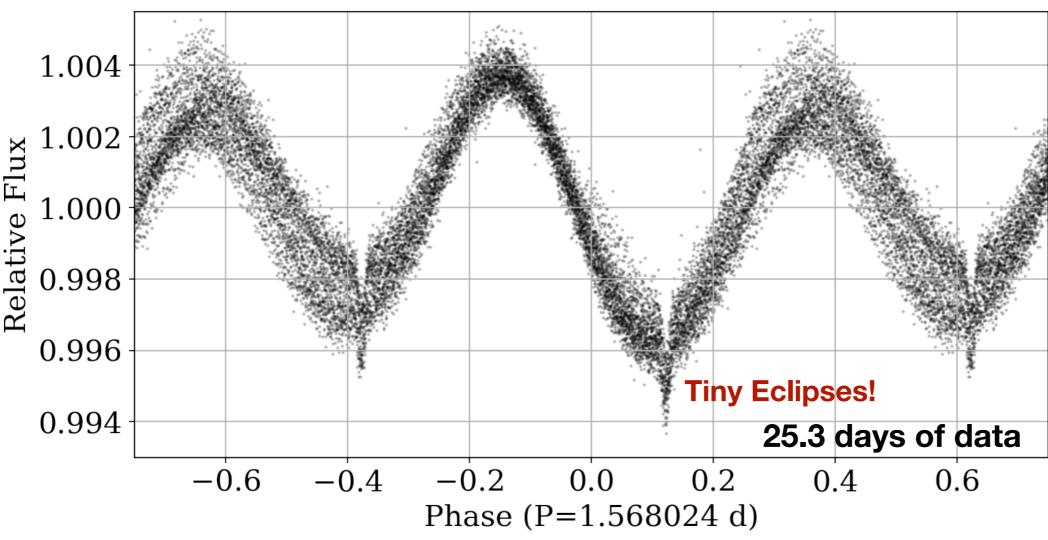
Introduce some NEW and some OLD data for HS Hydrae

TESS 2-YEAR SKY COVERAGE MAP



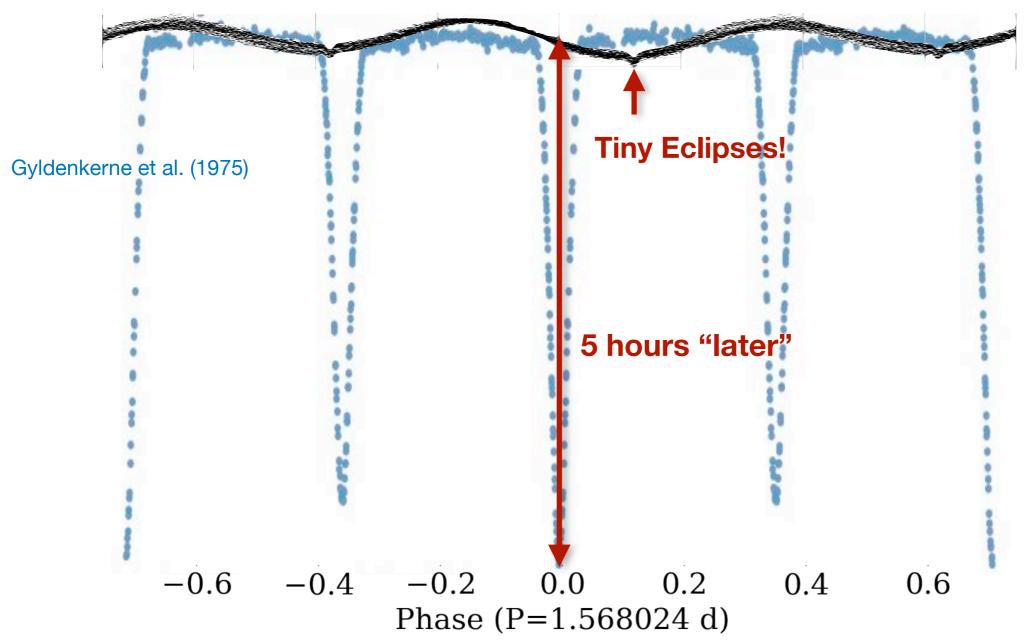


TESS Sector 9 (March 2019)





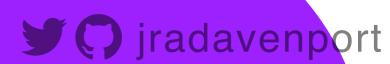
TESS Sector 9 (March 2019)





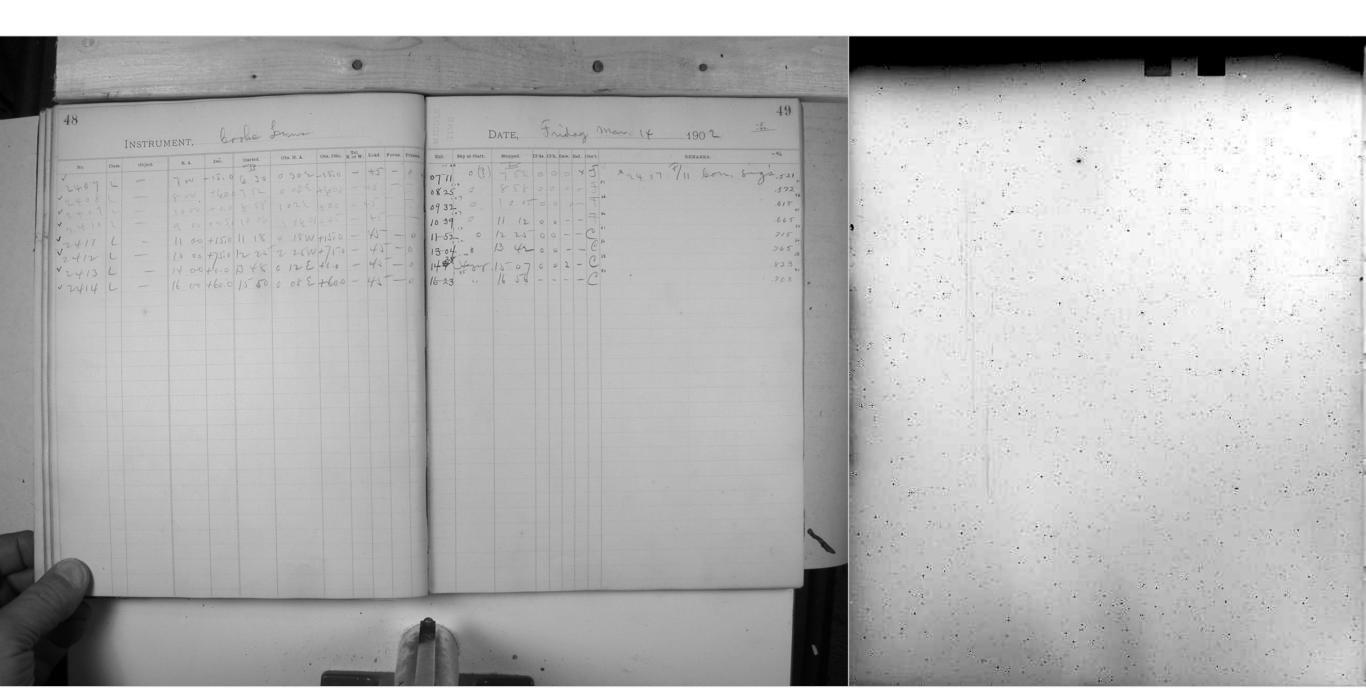


2019



Some new OLD data: DASCH

Digital Access to a Sky Century @ Harvard

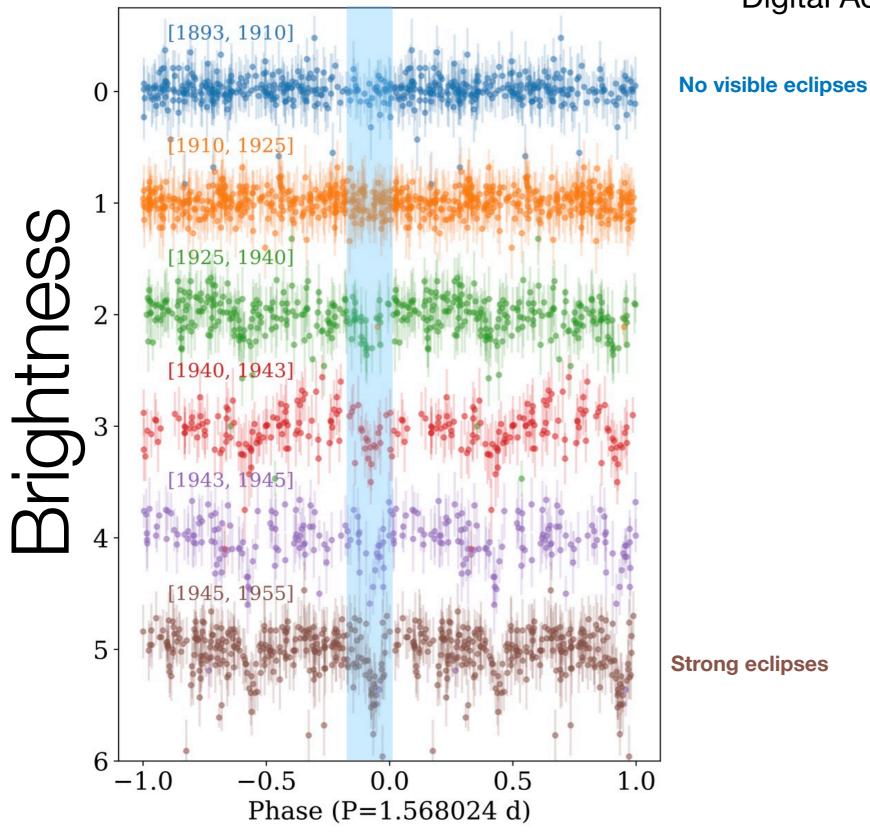


Log book (left) and digitized glass plate (right) from 1902 that includes HS Hydrae



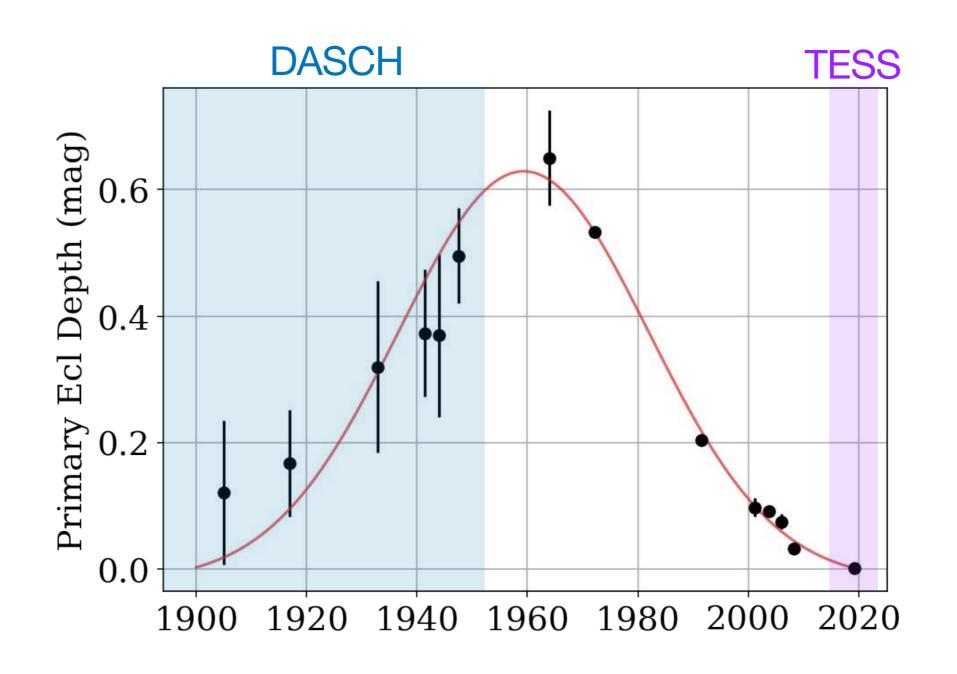
Some new OLD data: DASCH

Digital Access to a Sky Century @ Harvard



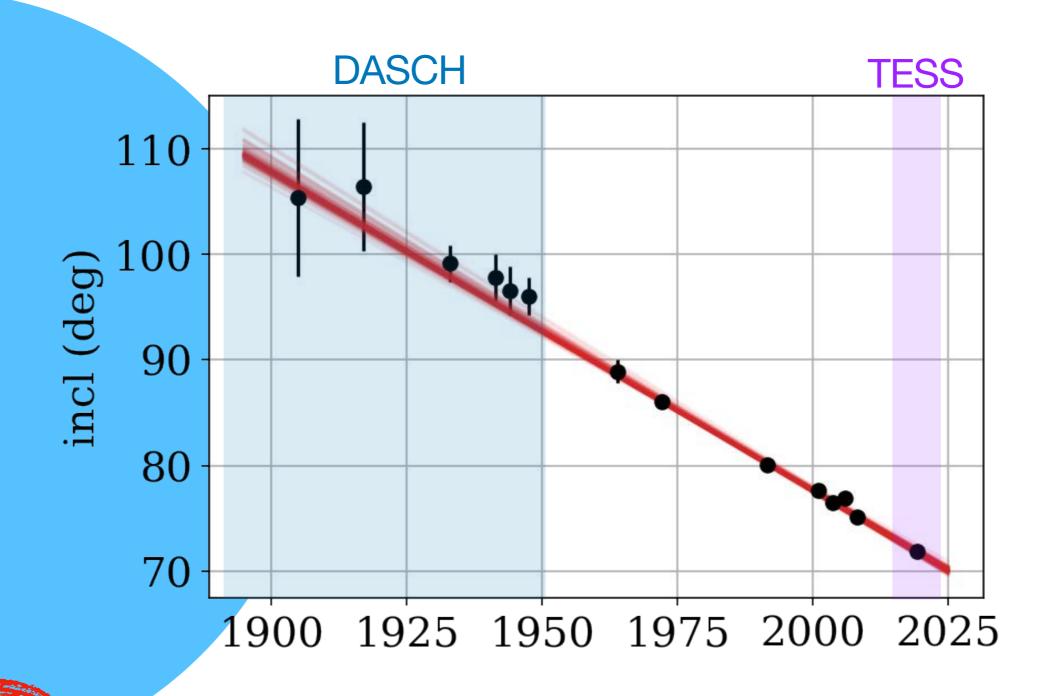


The Rise and Fall of HS Hydrae

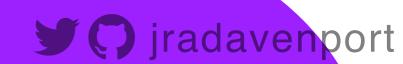




The Rise and Fall of HS Hydrae



Feb 2021



Prediction: 2195

See you at AAS 585



The FUTURE Rise and Fall of HS Hydrae

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