

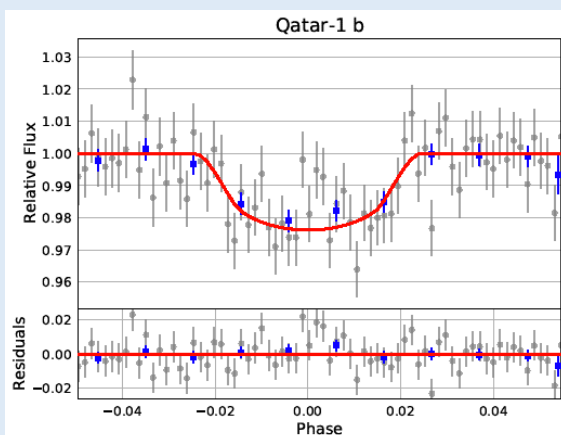
Explorer Seminar – January 6+

Do exoplanet observations and learn photometry. In this seminar, you will learn how to observe and measure exoplanets, discover the many fields of variable star research, gain experience for taking American Association of Variable Star Observers (AAVSO) Choice courses, and get into the JPL/NASA Exoplanet Watch program. Boyce-Astro will provide you opportunities to start your own exoplanet or variable star observation projects including the telescope time, computing tools, and support for publication.



This seminar is Free!

BOYCE-ASTRO ONLINE SEMINARS			
January / February 2021			
EXPLORER™ Program - An Introduction to Photometry and Exoplanets Seminar			
MODULE	DATE	CLASS TOPIC	ASSIGNMENT FOR NEXT CLASS
1	1/6/2021	Seminar Orientation and Photometry Overview Variable star types and exoplanet characteristics	Videos about photometry and exoplanet research Harvard/Smithsonian CFA - intro to their DIY Exoplanets Pick a MicroObservatory DIY Exoplanet target
2	1/13/2021	Factors to consider in photometric observations The transit method and what it tells us	Videos on photometric measurements and light curves Do your DIY exoplanet photometry and light curve
3	1/20/2021	Modeling the exoplanet parameters and environment Exoplanet databases and resources	Model your exoplanet to estimate its parameters Submit your DIY exoplanet observation to the CFA
4	1/27/2021	NASA/JPL Exoplanet Watch and TESS programs EXOTIC and AIJ software	Do a new exoplanet light curve using JPL's EXOTIC (a recent unreported observation will be provided)
5	2/3/2021	Troubleshooting your data reduction How to report your observation results to AAVSO	Draft your AAVSO observation report (from Module 4)
6	2/10/2021	How to find targets your own exoplanet observations Variable star observations and the AAVSO Forums	Submit your AAVSO/Exoplanet Watch report
ALL CLASSES ARE HELD ON WEDNESDAY NIGHT AT 8:00 TO 9:30 PM ON ZOOM [435 909 0389]			
Weather and time permitting, students may stay after 9:30 for a virtual star party following class.			
Post-seminar opportunities	Do LCO or BARO exoplanet observations	Post observations to the AAVSO/Exoplanet Watch Program	
	Do an AdvancedSTARS™ project in variable stars	Publish or do a poster from your exoplanet or variable star research	
	Do the AAVSO Exoplanet Observers course	Join our TESS SG1 exoplanet observation team	



Prerequisites: Students must have completed the DoubleSTARS™ seminar or an accredited astronomy course. Experience in observational astronomy may be considered in lieu of the education requirement. Students who have not completed DoubleSTARS™ must complete the IntroSTARS™ self-paced online course. Takes 1 to 2 weeks. Go to <http://boyce-astro.org/introstars-your-step-1/> to sign up and do on your own schedule.

Registration: Go to <http://boyce-astro.org/explorer-signup/>

FREE ONLINE - STARTS JANUARY 6