

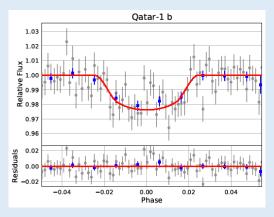
## Exoplorer™ EW Seminar

Do exoplanet observations and learn photometry. In this seminar, you will learn how to observe and measure exoplanets, drill down into astro databases, reduce data to submit observations to the JPL/NASA Exoplanet Watch program, do your own observation, analyze and present your results. Boyce-Astro will lead you through your project and provide the telescope time for the seminar and for your own exoplanet observations projects. You will be prepared for exoplanet discovery and variable star photometry.



SPRING 2025 EXOPLORATION™ for the EXOPLANET WATCH PROGRAM			
0	Seminar Orientation and Photometry Overview	Complete IntroSTARS™ and IntroSTARS™ Quiz before Module 1	29-Jan
		(not required for students who have completed this before)	or 2-Feb
1	Variable stars, exoplanets, NASA and other programs	Videos about photometry and variable stars - start self-paced photometry	19-Feb
	Recommended reading and websites	Get Observer Code, Slacks, Google account, Classroom, download tools	
2	Aperture and differential photometry overview  Transit method, Exoplanet Watch and EXOTIC	Do an example exoplanet light curve using JPL's EXOTIC	26-Feb
3	How to submit your results to AAVSO and NASA/JPL	Receive an unreported observation file and reduce it using EXOTIC	5-Mar
	Equipment needed for observations	Submit your EXOTIC results to AAVSO / JPL	
4	Factors to consider in exoplanet target selection	Do your own observation request to LCO, BARO, or BARON observatories	19-Mar
	How to set up your own exoplanet observation	(your observation data will be sent to you after success)	
5	What observations mean, exoplanet parameters	Finish your observation data reduction and submit your results	9-Apr
	Exoplanet databases	Submit your results to AAVSO / JPL	
6	Discuss your observation results	Quiz on observing time series photometry and exoplanets	23-Apr
		Short presentation about your target and how your results stand up	
7	Present your results in Class (Slides or PowerPoint)	Draft a Research Note for your observation	7-May
	Publication opportunities		
8	Exoplorer <sup>™</sup> TESS Program introduction	Join the ExoplorerTM TESS seminar if desired	21-May
	Future photometry project opportunities	More exoplanet or variable star observations with Boyce-Astro	

Prerequisites: IntroSTARS<sup>TM</sup> is our self-paced online introductory course in stellar astrophysics. It takes 5 to 10 hours to complete depending on your current experience and knowledge. Students must have completed IntroSTARS<sup>TM</sup> and its final Quiz before taking this course. Sign up on the Wait List below and then go to <a href="http://boyce-astro.org/introstars-your-step-1/">http://boyce-astro.org/introstars-your-step-1/</a> to sign up to do IntroSTARS on your own schedule. Your answers to the final quiz will be due one week before Module 1.



Students at affiliated schools can attend according to their school's requirements. There is \$49 fee due before Module 1 for Boyce-Astro students not at an affiliated school. Class size is limited. Preference will be given to graduates of other Boyce-Astro seminars followed by those having the highest score on the IntroSTARS<sup>TM</sup> final Quiz.

To be invited to the Zoom Orientations, please

Get on our Wait List -- Click Here

ORIENTATIONS January 29 or February 3 at 7:00 PM Pacific Time on Zoom