

# NASA's Exoplanet Modeling & Analysis Center

Presented by Eric D. Lopez (NASA Goddard)

Background Image Credit: NASA Ames/JPL-Caltech/T. Pyle

### Meet the Team





Eric Lopez Co-Lead



Dylan Cristy Front-End Developer



Anmol Desai Post-Bac Researcher



Joe Renaud *Co-Lead* 



Mike Moore Back-End Developer



Celeste Hagee Post-Bac Researcher



Avi Mandell Founder & Advisor

... and many alumni including former post-bacs now at U. Chicago, U. Kansas; U. Padova; IPAC; & UNLV

## So, what is EMAC?



NASA Goddard's Exoplanet Modeling and Analysis Center

 Searchable repository for exoplanet science codes and resources





- Networking & support to scientists & model developers
- First stop for finding codes, intermodel comparisons, and model visualization

EMAC and its team are supported by...

NASA Goddard's Sellers' Exoplanet Environments Collaboration

NASA Sciences and Exploration Directorate

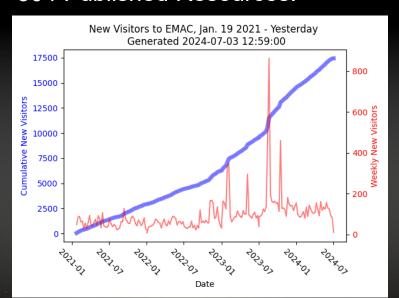
NASA Planetary Science & Astrophysics Divisions

#### EMAC's Growth

Soft Launched ~2018

100s of weekly new visitors

304 Published Resources!





1st EMAC Developer's Workshop in Spring 2023 >300 Registrants & >40 talks
Talks on EMAC's YouTube:
youtube.com/@NASA\_EMAC



# Live Demo Time!

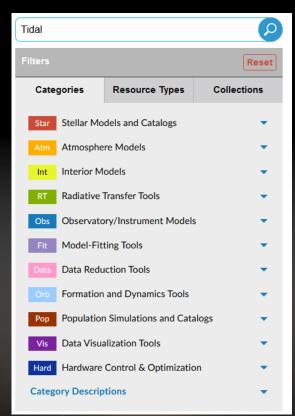


Because these always go well...

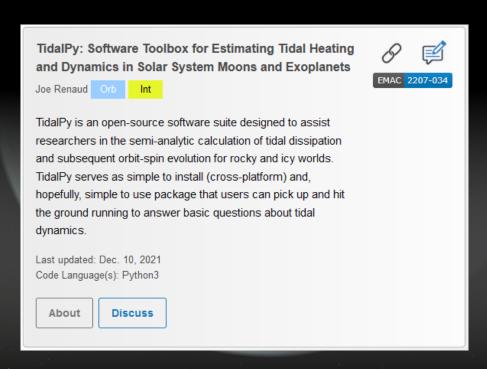
# The Demo didn't work:(



#### Search for Resources





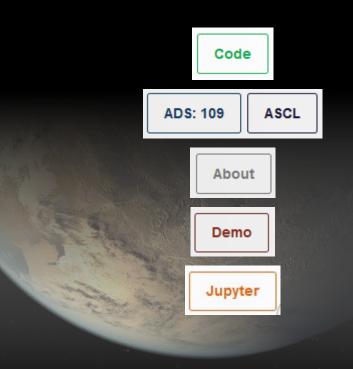


### Link to Extras

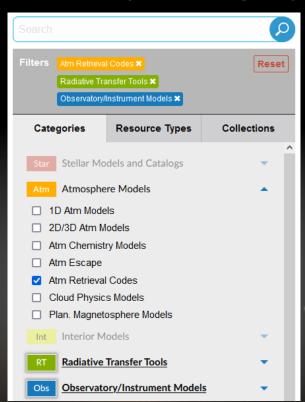




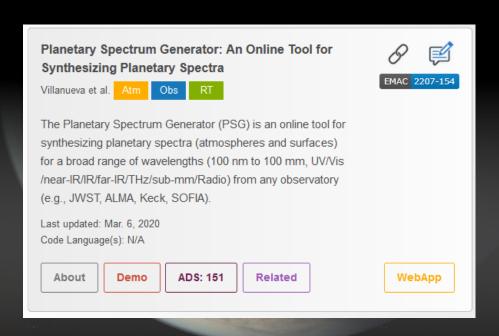




# Search by Category

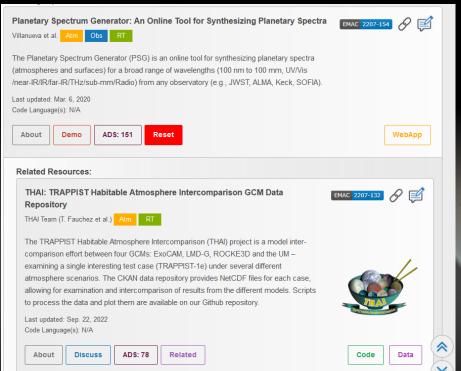


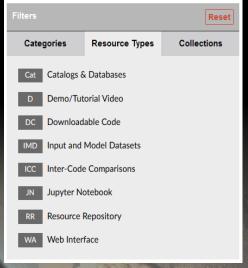


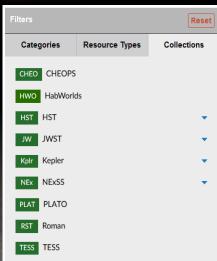


# Search by Collections & Types









#### The HabWorlds Collection

Collection of tools related to simulations and modeling specifically for exoplanet-related data from the Habitable Worlds Observatory

#### Curators:

EMAC Team, NASA Goddard

# Submit & Subscribe



Home   Submit a Resource   Subscribe   FAQ   Our Team   News   Seminars   For Developers		
Resource Submission		
This page allows developers to submit their model, tool, or resource for inclusion within EMAC. Use the form below to let us know about your tool, including it's name, a brief description, the developers, what categories the resource falls under, whether you want the resource hosted on EMAC, and any relevant links, images, or credits that you'd like us to include.  After you submit your resource, a member of our team will be in touch to discuss a plan for including it in EMAC.		
NOTE: All web-based submissions are expected to conform to W3C standards, must pass the W3C Markup and CSS validation services, and must support all major cross-platform browsers (sc. Chrome, Firefox, and Safari).  Your first name*		
Please provide your first name		
Your last name		
Please provide your last name Your email*		
Please provide an email address at which the EMAC team can contact you		

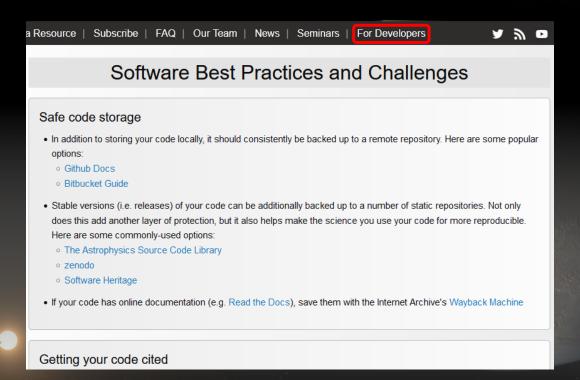
Provide Additional Resource Details (click to expand)
Select Resource's Science Categories (click to expand)
Provide Resource Related Web Links (click to expand)

	Your email*
	Please provide an email address at which EMAC can alert you.
	Categories (check all that apply)
	☐ Stellar Models and Catalogs
	☐ Host Star Catalogs
100 per	☐ Stellar Models and Spectra
	☐ Atmosphere Models
	□ 1D Atm Models
-	☐ 2D/3D Atm Models
THE PERSON NAMED IN	☐ Atm Chemistry Models
	☐ Atm Escape
-	☐ Atm Retrieval Codes
	□ Cloud Physics Models
	□ Plan. Magnetosphere Models

DASH Conference | October 15th, 2024

## Developer Tips & Tricks





# NASA's EMAC

