



THE SONG DATA ARCHIVE







soda.phys.au.dk

SONG Data Search

+	Object	
	Object name:	mu Her
+	Projects	
+	Stellar properties	
+	Temporal constraints	
+	Data types	
•	Instrument	
	Telescope:	
	SONG Spectrograph:	<u> </u>
	lodine: Slit:	lodine cell2 V
+	Files	

Search

Deselect all Choose table columns

Show	Show Query							
		File name \$	Data Type \$	File size ♦	Object name \$	Obs. Start	V Mag	Project
	2	s1_2017-08-30T21-15-20_ext	1D extracted spectrum	4.0 MB	mu Her	57995.8856504	3.42	P05-16
	6 -	s1_2017-08-30T21-13-14_ext	1D extracted spectrum	4.0 MB	mu Her	57995.8841978	3.42	P05-16
	2	s1_2017-08-30T21-11-08_ext	1D extracted spectrum	4.0 MB	mu Her	57995.8827423	3.42	P05-16
	<u>-</u>	s1_2017-08-29T21-15-35_ext	1D extracted spectrum	4.0 MB	mu Her	57994.8858326	3.42	P05-16
	2	s1_2017-08-29T21-13-31_ext	1D extracted spectrum	4.0 MB	mu Her	57994.884389	3.42	P05-16
		s1_2017-08-29T21-11-26_ext	1D extracted spectrum	4.0 MB	mu Her	57994.8829434	3.42	P05-16
	2 6-	s1_2017-08-28T21-15-34_ext	1D extracted spectrum	4.0 MB	mu Her	57993.8858109	3.42	P05-16
	<u>-</u>	s1_2017-08-28T21-13-28_ext	1D extracted spectrum	4.0 MB	mu Her	57993.8843617	3.42	P05-16
	- P	s1 2017-08-25T02-21-12 ext	1D extracted spectrum	4.0 MB	mu Her	57990.0980658	3,42	P05-16

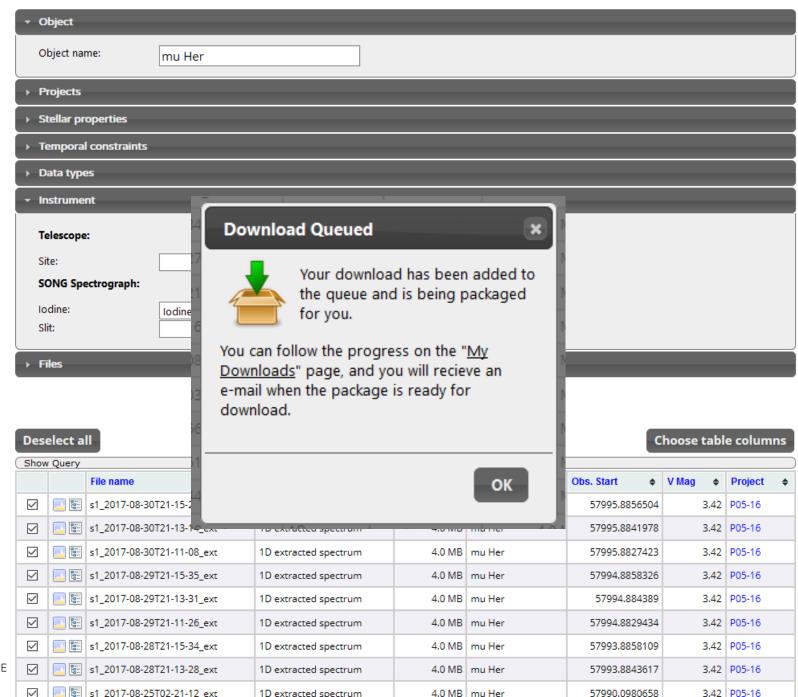






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SONG Data Search









SONG DATA ARCHIVE

Serves SONG data to the community.

Documentation on data products.

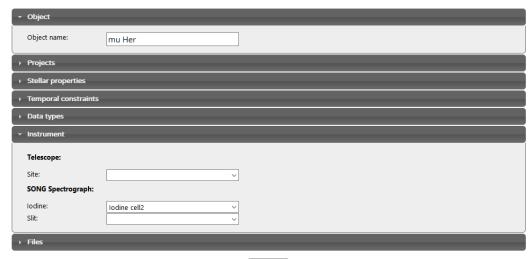
Allows users to define observations (Phase 2).

Facilitates the SONG Publication Review.

Live statistics of SONG observations.

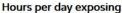
... and more to come...

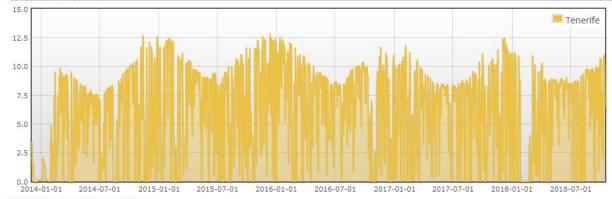






Search



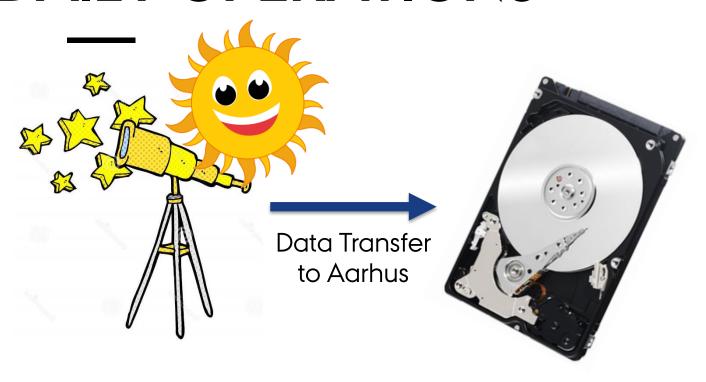


Total time exposing: 10,635 hours.





23 OCTOBER 2018



















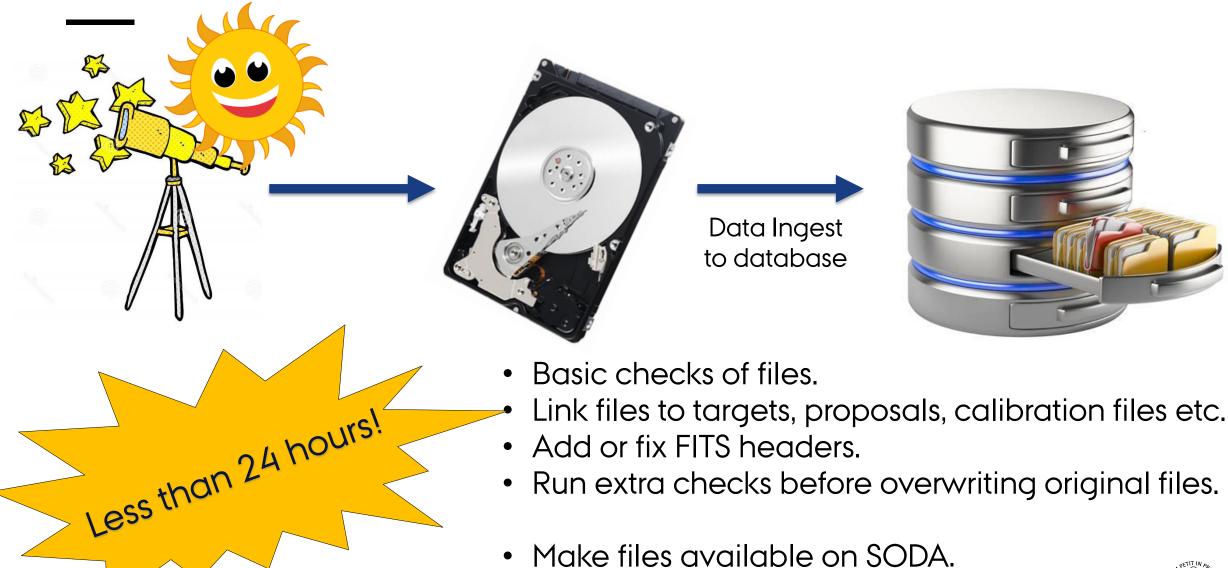


- Basic checks of files.
- Link files to targets, proposals, calibration files etc.
- Add or fix FITS headers.
- Run extra checks before overwriting original files.
- Make files available on SODA.

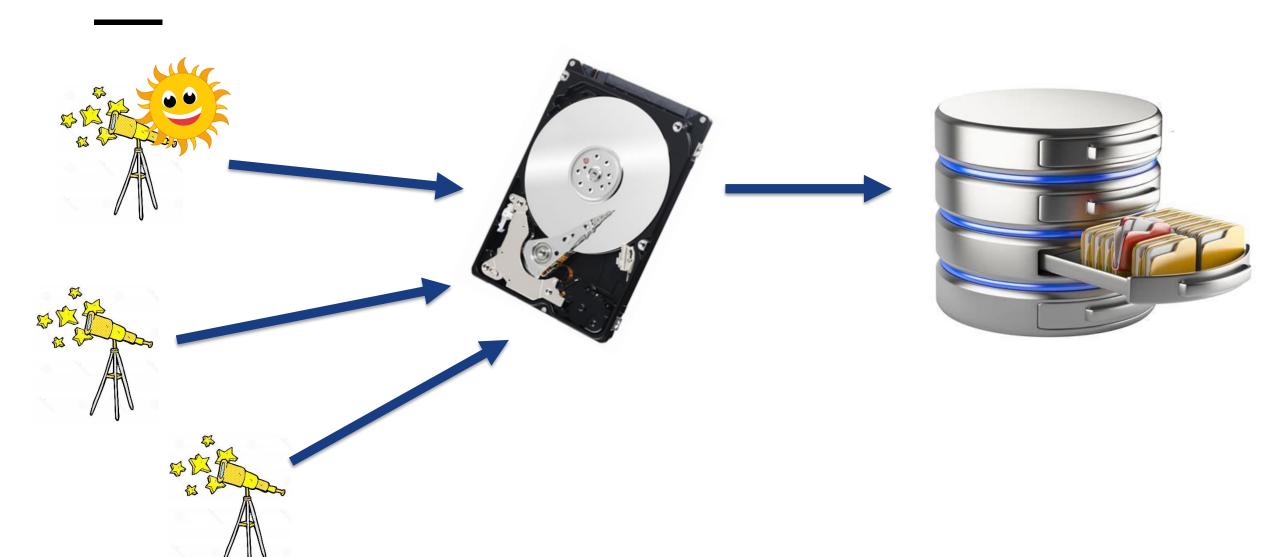








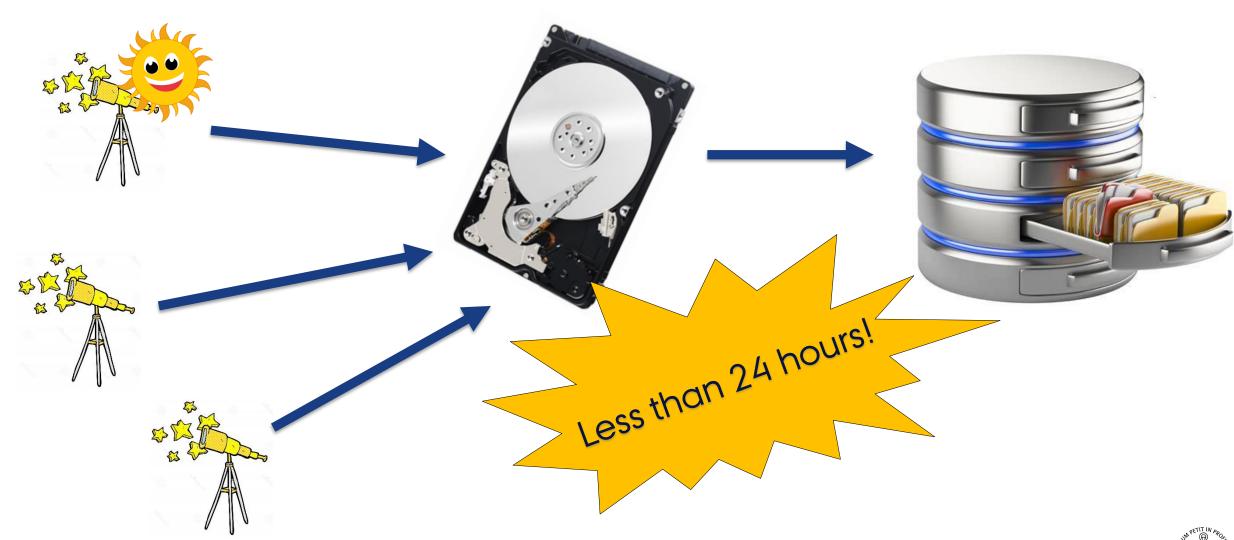
MORE NODES IN SONG?





RASMUS HANDBERG

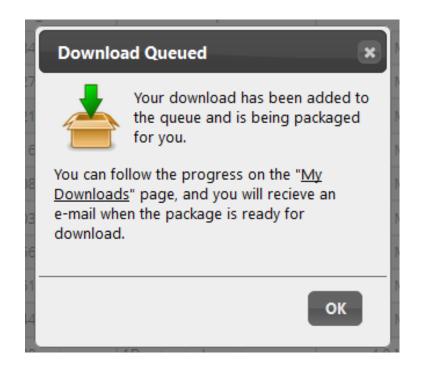
MORE NODES IN SONG?





BUT SOMETHING IS STILL MISSING

On SODA you can get the individual (reduced) spectra. BUT you can not find the extracted radial velocities!



We are working on incorporation the radial velocity pipeline into SODA, so when you request the radial velocities, they are automatically calculated.

Will be incorporated into the existing Data Search interface.







New system for uploading SONG proposals

SONG Observing Proposal Submission

My proposals

New Proposal

Period	Title Last Updated		
8-28	sfdsfsddsf	8th August 2018 02:14	Edit
8-1	My awesome project	18th October 2018 17:35	Edit

Submitted proposals

Period	Title	Submitted	
8-30	Asteroseismic characterization of the brightest red giants	28th September 2018 15:50	₽DF







SONG Proposal

Any questions regarding the proposal procedure may be submitted to songprop@phys.au.dk.

Title and abstract

Title of proposal

Asteroseismic characterization of the brightest red giants

Abstract:

We propose observations of the very bright K giants (\$\alpha\$ Aur), Alphard (\$\alpha\$ Hya), Algieba (\$\gamma^1\$ Leo) and Dubhe (\$\alpha\$ UMa). Their brightness and the long period of their oscillations (\$\nu_\mathrm{max}\$ \$\sim\$ 4, 6 and 20\$\mu\$Hz, respectively) means they require relatively short and sparse observations, making them ideal targets for a filler programme. We will model the time series using Continuous Auto-Regressive Moving Average (CARMA) models to determine \$\nu_\mathrm{max}\$, as previously demonstrated for SONG observations of Aldebaran. As the time series increase in length, we will be able to determine the frequency spacing and individual modes. With complementary observations, these targets will become benchmarks for testing asteroseismic methods for red giant stars. We note that Algieba is known to host at least one exoplanet, with a second planet suspected, but unconfirmed.

90 characters left.

Co-investigators and affiliations

Co-investigators and their affiliations should be entered using a format where numbers in brackets are written after the names to affiliate them with the appropriate institution. The number for each institution must be stated before the name of the institution.

23 OCTOBER 2018

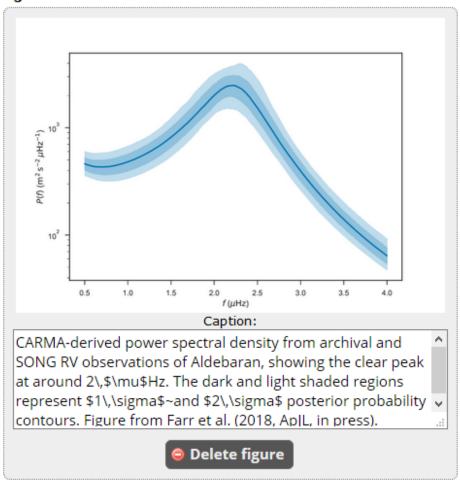
Example: Co-investigators:

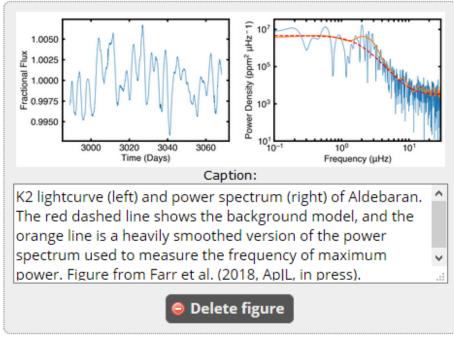
```
Right, M. R. (1)
Maybe, M. S. (3)
Wrong, D. R. (2,3)
```





Figures











No more annoying LaTeX compiling!

Compiling your proposal... Please wait...







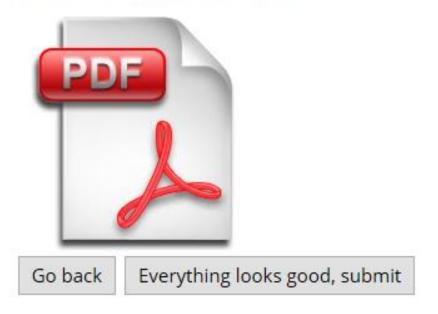


No more annoying LaTeX compiling!

Compiling your proposal... Please wait...



Please check that the PDF looks correct.









AUTOMATIC PROPOSAL GENERATION

Stellar Observations Network Group (SONG) APPLICATION FOR OBSERVING TIME OBSERVING PERIOD 8 : 1^{st} October 2018 – 1^{st} April 2019 P08-??

Asteroseismic characterization of the brightest red giants

Rasmus Handberg, Stellar Astrophysics Centre, DK¹

B. J. S. Pope¹, F. Grundahl², G. R. Davies^{3,2}, W. M. Farr⁴, T. R. Bedding^{5,2}

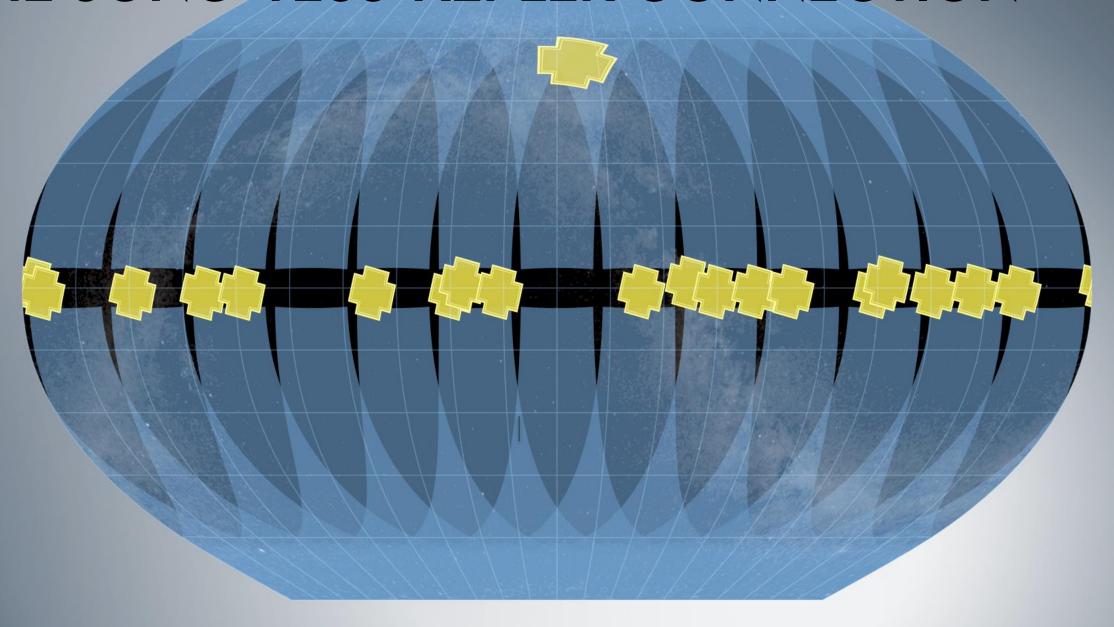
We propose observations of the very bright K giants (α Aur), Alphard (α Hya), Algieba (γ^1 Leo) and Dubhe (α UMa). Their brightness and the long period of their oscillations ($\nu_{\rm max} \sim 4$, 6 and $20 \mu {\rm Hz}$, respectively) means they require relatively short and sparse observations, making them ideal targets for a filler programme. We will model the time series using Continuous Auto-Regressive Moving Average (CARMA) models to determine $\nu_{\rm max}$, as previously demonstrated for SONG observations of Aldebaran. As the time series increase previously demonstrated for song observations of Aldebaran and individual modes. With in length, we will be able to determine the frequency spacing and individual modes. With in length, we will be able to determine the frequency spacing and individual modes. With in length, we will be able to determine the frequency spacing and individual modes. With in length, we will be able to determine the frequency spacing and individual modes. With in length, we will be able to determine the frequency spacing and individual modes. With a second planet stars. We note that Algieba is known to host at least one exoplanet, with a second planet suspected, but unconfirmed.

- (1) NYU.
- (2) SAC.
- (3) Uni. B'ham.
- (4) Stony Brook Uni, NY.
- (5) USyd.

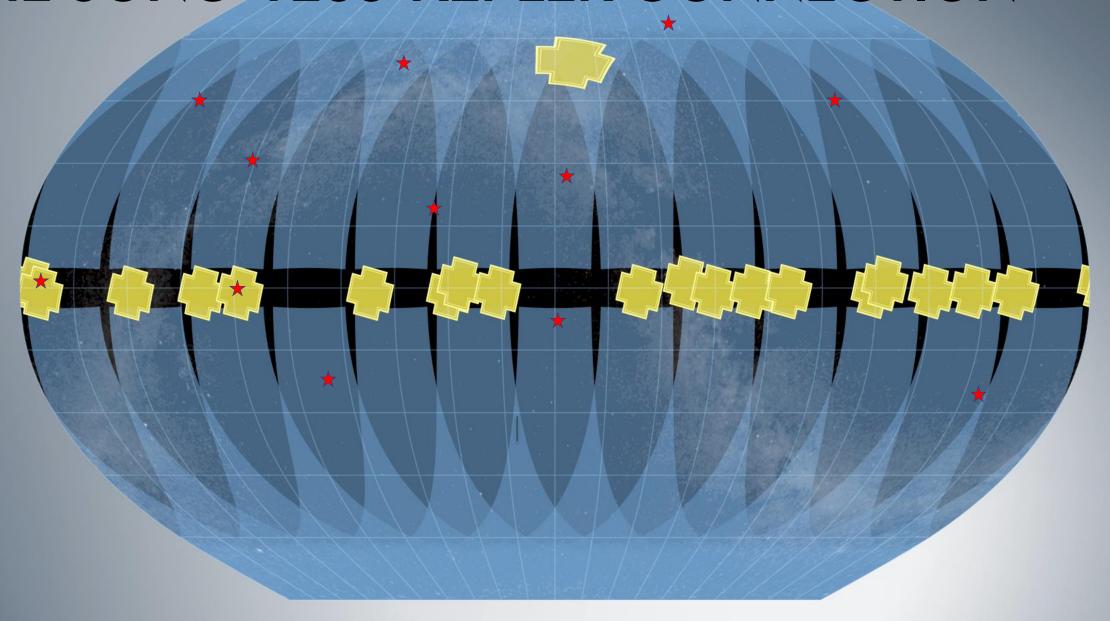




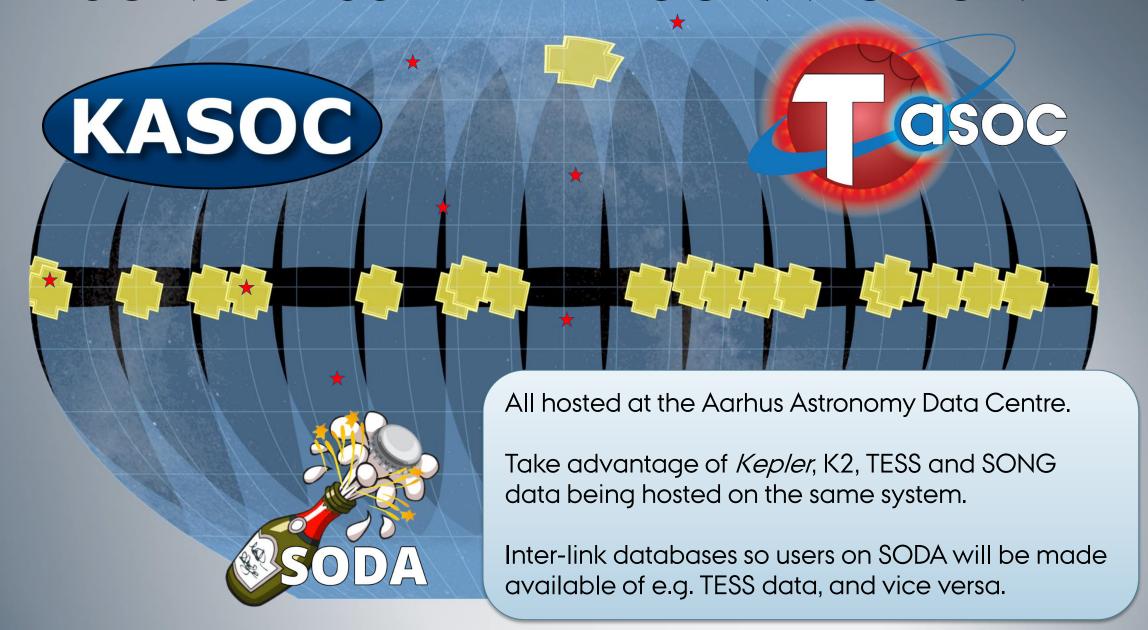
THE SONG-TESS-KEPLER CONNECTION



THE SONG-TESS-KEPLER CONNECTION



THE SONG-TESS-KEPLER CONNECTION



SUMMARY

- > SONG Data Archive daily operations almost fully automated.
- Work in progress on getting radial velocities into SODA.
- New SONG Proposal system no more annoying LaTeX compiling!
- Linking together *Kepler*, K2, TESS and SONG databases so users will be made aware of overlapping observations.









