

Program

The faint young Sun: Problem, paradox, or distraction?

A workshop at the Space Telescope Science Institute, April 9-10, 2012

Sunday, April 8

18:00 – 19:30 Opening reception, STScI lobby
snacks and drinks

Monday, April 9

Time	Speaker	Subject
08:00 – 09:00	breakfast available in STScI cafeteria	
09:00 – 09:20	D. Soderblom	Welcome and motivation
09:20 – 10:00	J. Kasting	Climate modeling of the early Earth: What happened when and how well do we know it?
10:00 – 10:40	D. Schwartzman	The case for a hot early Earth
10:40 – 11:00	break	
11:00 – 11:40	M. Pinsonneault	The standard solar model
11:40 – 12:20	V. Aguirre	Tests of the solar model from asteroseismology
12:20 – 13:30	lunch	
13:30 – 14:10	P. Knauth	Isotopic evidence for high surface temperatures on the Archean Earth
14:10 – 14:50	N. Sleep	Other geochemical constraints on Earth's atmosphere
14:50 – 15:10	F. Tian	Fractal haze, NH ₃ and N ₂
15:10 – 15:30	break	
15:30 – 16:10	S. Basu	Helioseismology and the early solar luminosity
16:10 – 16:50	F. Adams	The formation of stars like the Sun
16:50 – 18:00	open time	
18:00 – 20:30	group dinner (to be arranged)	

Tuesday, April 10

Time	Speaker	Subject
08:00 – 09:00	breakfast available in STScI cafeteria	
09:00 – 09:40	N. Sheldon	Precambrian CO ₂ constraints from paleosols
09:40 – 10:20	M. Rosing	CO ₂ constraints from banded iron formations
10:20 – 10:45	break	
10:45 – 11:25	A. Aarnio	The Sun in its youth
11:25 – 12:05	J. Linsky	Winds in Sun-like stars
12:05 – 13:20	lunch	
13:20 – 14:00	R. Blake	Temperatures in the early oceans
14:00 – 14:40	B. Ehlmann	Environments on early Mars: Constraints from the geologic record
14:40 – 15:20	D. Minton	Was the Earth always at 1 AU (and was the Sun always one solar mass)?
15:20 – 15:40	break	
15:40 – 16:20	J. Drake	Stellar constraints on the early Sun
16:20 – 17:00	O. Cohen	Stellar mass loss rates and x-ray fluxes

Additional information

A breakfast will be available to registered participants in the STScI cafeteria both mornings.

Lunch is available at your own expense in our cafeteria.

I will arrange a group dinner for Monday evening at a restaurant within walking distance. This will be shared expense, and please let me know if you'd like to come.