## Star Phases for the 15 Brightest Stars at Deep Springs

Common	Scientific	m	RA	DEC	Temp (color)														
Name	Name					Jan 1	Jan 11	Jan 21	Jan 31	Feb 10	Feb 20	Mar 1	Mar 11	Mar 21	Mar 31	Apr 10	Apr 20	Apr 30	May 10
Sirius	α Canis Majoris	-1.5	6h 45m	-16.7°	9400K (bluish)														
Vega	α Lyrae	0.0	18h 37m	+38.8°	9790K (bluish)	<b>~</b>	✓	✓	✓	✓	$\checkmark$	$\checkmark$	✓	$\checkmark$	✓	$\checkmark$	✓	✓	$\checkmark$
Capella	α Aurigae	0.0	5h 17m	+46.0°	4800K (yellowish)	<b>~</b>	⋖												⋖
Arcturus	a Boötis	0.0	14h 16m	+19.2°	4530K (orangish)	<b>~</b>	✓	✓	✓	<b>⋖</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rigel	β Orionis	0.1	5h 15m	-8.2°	11100K (blluish)														
Procyon	α Canis Minoris	0.4	7h 39m	+5.2°	6650K (white)														
Altair	α Aquilae	0.8	19h 51m	+8.9°	7830K (white)	<b>~</b>	✓	✓	✓	<b>✓</b>	$\checkmark$	<b>✓</b>	✓	<b>✓</b>	✓	✓	<b>✓</b>	✓	✓
Betelgeuse	α Orionis	0.5	5h 55m	+7.4°	3600K (reddish)														
Aldebaran	α Tauri	0.8	4h 36m	+16.5°	3900K (reddish)														
Spica	a Virginis	1.0	13h 25m	-11.2°	26200K (bluish)		✓	✓	✓	<b>✓</b>	$\checkmark$	<b>✓</b>	✓	<b>~</b>	✓	⋖			
Pollux	β Geminorum	1.1	7h 45m	+28.0°	4660K (orangish)	<b>~</b>	✓	⋖	•										
Antares	a Scorpii	1.0	16h 29m	-26.4°	3500K (reddish)	<b>~</b>	✓	✓	✓	✓	✓	<b>✓</b>	✓	<b>✓</b>	✓	✓	✓	✓	✓
Fomalhaut	a Piscis Austrini	1.2	22h 58m	-29.6°	8730K (white)											⋖	✓	✓	✓
Deneb	a Cygni	1.2	20h 41m	+45.3°	9380K (bluish)	<b>&gt;</b>	✓	✓	✓	<b>✓</b>	✓	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	✓	✓	✓
Regulus	α Leonis	1.3	10h 8m	+12.0°	12700K (bluish)	<b>&gt;</b>	✓	✓	✓	✓	✓								

Common				Above I	Horizon at	Sunrise														
Name	May 20	May 30	Jun 9	Jun 19	Jun 29	Jul 9	Jul 19	Jul 29	Aug 8	Aug 18	Aug 28	Sep 7	Sep 17	Sep 27	Oct 7	Oct 17	Oct 27	Nov 6	Nov 16	Nov 26
Sirius									⋖	✓	✓	$\checkmark$	$\checkmark$	<b>✓</b>	$\checkmark$	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	ゼ
Vega	✓	✓	<b>✓</b>	✓	✓	<b>✓</b>	✓	✓	✓	⋖									⋖	✓
Capella	✓	✓	<b>✓</b>	✓	✓	<b>✓</b>	✓	<b>✓</b>	<b>⋖</b>	✓	✓	<b>✓</b>	✓	✓	<b>⋖</b>	✓	✓	✓	✓	✓
Arcturus	✓	✓														⋖	✓	✓	✓	✓
Rigel						✓	✓	<b>✓</b>	<b>✓</b>	✓	✓	<b>✓</b>	✓	<b>⋖</b>	✓	✓	✓	<b>✓</b>	⋖	
Procyon								⋖	✓	✓	✓	<b>✓</b>	✓	<b>⋖</b>	<b>✓</b>	✓	✓	<b>✓</b>	✓	✓
Altair	✓	✓	✓	✓	<b>✓</b>	✓	✓	✓	⋖											
Betelgeuse							✓	✓	✓	✓	✓	<b>✓</b>	✓	✓	<b>⋖</b>	✓	✓	<b>✓</b>	✓	✓
Aldebaran		•	⋖	⋖	✓	✓	✓	✓	<b>⋖</b>	✓	✓	<b>✓</b>	✓	✓	<b>⋖</b>	✓	✓	✓	✓	⋖
Spica																⋖	✓	<b>⋖</b>	✓	✓
Pollux							✓	✓	<b>✓</b>	✓	✓	<b>✓</b>	✓	✓	✓	✓	✓	<b>✓</b>	✓	✓
Antares	⋖	•																		
Fomalhaut	✓	✓	✓	✓	✓	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓										
Deneb	✓	✓	✓	✓	✓	<b>✓</b>	✓	<b>✓</b>	<b>✓</b>	✓	✓	<b>✓</b>	✓	•						✓
Regulus											⋖	<b>✓</b>	✓	✓	<b>✓</b>	✓	✓	<b>⋖</b>	✓	✓

At left, a red-to-green transition is a TMR, and a green-to-red transition is a TMS.

Common																				
Name	Dec 6	Dec 16	Dec 26	Jan 1	Jan 11	Jan 21	Jan 31	Feb 10	Feb 20	Mar 1	Mar 11	Mar 21	Mar 31	Apr 10	Apr 20	Apr 30	May 10	May 20	May 30	Jun 9
Sirius						•	⋖	✓	$\checkmark$	✓	$\checkmark$	<b>✓</b>	✓	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	ゼ	
Vega	✓	✓	✓	✓	✓	<b>✓</b>	✓	⋖									⋖	✓	✓	✓
Capella	✓	✓	✓	<b>✓</b>	✓	<b>✓</b>	✓	✓	✓	<b>✓</b>	✓	✓	✓	✓	<b>✓</b>	✓	✓	✓	✓	✓
Arcturus	✓	✓	✓											⋖	✓	✓	✓	✓	✓	✓
Rigel					⋖	✓	✓	✓	✓	<b>✓</b>	✓	✓	✓	✓	<b>✓</b>	✓	⋖	•		
Procyon	✓	✓	⋖				⋖	✓	✓	<b>✓</b>	✓	✓	✓	✓	<b>✓</b>	✓	✓	✓	✓	<b>✓</b>
Altair			⋖	✓	<b>✓</b>	✓	⋖													
Betelgeuse	⋖	•		⋖	✓	<b>✓</b>	✓	✓	✓	<b>✓</b>	✓	✓	✓	✓	<b>✓</b>	✓	✓	✓	⋖	
Aldebaran				<b>✓</b>	✓	<b>✓</b>	✓	✓	✓	<b>✓</b>	✓	✓	✓	✓	<b>✓</b>	✓	✓	⋖	•	
Spica	✓	✓	✓												⋖	⋖	✓	✓	✓	✓
Pollux	✓	✓	✓		✓	✓	✓	<b>✓</b>	✓	<b>✓</b>	✓	<b>✓</b>	✓	✓	✓	✓	✓	✓	✓	✓
Antares	⋖	⋖	✓																•	⋖
Fomalhaut				<b>⋖</b>	✓	<b>⋖</b>	✓	✓												
Deneb	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								✓	⋖
Regulus	✓	✓	✓						⋖	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

At right, a red-to-green transition is a TER and a green-to-red transition is a TES.

Common	Above	Above Horizon at Sunset																		
Name	Jun 19	Jun 29	Jul 9	Jul 19	Jul 29	Aug 8	Aug 18	Aug 28	Sep 7	Sep 17	Sep 27	Oct 7	Oct 17	Oct 27	Nov 6	Nov 16	Nov 26	Dec 6	Dec 16	Dec 26
Sirius																				
Vega	✓	✓	<b>✓</b>	✓	✓	<b>✓</b>	<b>⋖</b>	<b>⋖</b>	<b>✓</b>	<b>⋖</b>	✓	<b>✓</b>	✓	✓	✓	<b>✓</b>	✓	<b>✓</b>	✓	✓
Capella	✓	✓														✓	✓	<b>✓</b>	✓	✓
Arcturus	✓	✓	✓	✓	✓	<b>✓</b>	✓	✓	<b>⋖</b>	<b>✓</b>	✓	<b>✓</b>	✓	✓	✓	✓	✓			
Rigel																				
Procyon	✓	<b>⋖</b>																		
Altair		✓	✓	✓	✓	<b>✓</b>	✓	✓	✓	<b>✓</b>	✓	<b>✓</b>	✓	✓	✓	✓	✓	<b>✓</b>	✓	✓
Betelgeuse																				
Aldebaran																			✓	✓
Spica	✓	✓	<b>✓</b>	✓	✓	<b>✓</b>	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	⋖								
Pollux	✓	✓	<b>✓</b>	⋖																
Antares	✓	✓	<b>✓</b>	✓	✓	<b>✓</b>	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	<b>✓</b>	<b>✓</b>	✓	<b>✓</b>	⋖				
Fomalhaut												⋖	✓	✓	<b>✓</b>	✓	✓	✓	✓	✓
Deneb	✓	<b>✓</b>	<b>✓</b>	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	<b>✓</b>	<b>✓</b>	✓	✓	✓	✓	<b>✓</b>	<b>✓</b>	✓	✓	✓	✓
Regulus	✓	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	⋖													