

Acknowledgements

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A special thanks to Larry Stevens for his advice and instruction in the use of the Solar Pathfinder™; to Chris Franke for helping me collect data on more than three dozen new campsites during two High Desert Adventures Trips, and introducing me to many of his fellow guides; to Kenny Baker for providing needed missing data, proof-reading, and shared inspiration on creating a "Book of Shade", and to the National Park Service Grand Canyon Research Office and Dan Cassidy of Five Quail Books for providing financial support to mass produce these almanacs.

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The Boatman's Almanac 2000



By Jeff Sorensen July 2000 Edition

A compilation of monthly sunrise & sunset times
for campsites & cool places in Grand Canyon

Preface

July 2000 Edition

The information in this booklet was recorded from an instrument called the Solar Pathfinder™. Architects & engineers use this modern-day “sundial” to measure the amount of solar energy that affects a specific location.

Using the Solar Pathfinder™ we can predict the average monthly sunrise & sunset times **within a half hour accuracy** (+/-) for each location recorded. Discrepancies in actual sunrise & sunset times may result from changes in seasonal tree canopy, topographical features of canyon walls, time of the month, & the exact location where initial readings were taken. In most cases, Pathfinder readings were taken in the **center of the beach or camp “kitchen”** where most people would congregate.

It's my intent to provide a useful guide for Grand Canyon river runners in choosing campsites that offer early summer shade or early winter sunlight. Hikers, backpackers & photographers may also find this information useful for optimizing available daylight.

This is a free publication--my gift to the river guide community as a way of saying thanks. “Shade Up!”

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116 W. Runion Dr., Phoenix, AZ 85027

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Solar Pathfinder, 196 Moore Road, Iron City, TN 38463

This booklet is dedicated to the men & women working in Grand Canyon as boatmen of the Colorado River. Your knowledge, spirit, & love of the Canyon inspires others that visit this remarkable place. Thank you!

LEE'S FERRY RAMP (upper parking lot)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	8:00	16:30
FEB	7:30	16:30
MAR	7:30	17:00
APR	7:00	17:30
MAY	6:30	18:00
JUN	6:30	18:00
JUL	7:00	18:00
AUG	6:30	17:30
SEP	7:00	17:00
OCT	7:30	17:00
NOV	8:00	16:30
DEC	8:00	16:30

UPPER HOT NA NA (16.4 mi RL, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	12:00	15:00
FEB	11:30	15:00
MAR	11:00	15:00
APR	10:30	15:00
MAY	10:30	15:30
JUN	10:30	15:30
JUL	10:30	15:30
AUG	10:30	15:00
SEP	11:00	15:00
OCT	11:30	15:00
NOV	12:00	15:00
DEC	12:00	15:00

LOWER HOT NA NA (16.4 mi RL, lower camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	12:00	15:00
FEB	12:00	15:00
MAR	11:30	15:00
APR	11:00	15:00
MAY	11:00	15:00
JUN	11:00	15:00
JUL	11:00	15:00
AUG	11:00	15:00
SEP	11:30	15:00
OCT	12:00	15:00
NOV	12:00	15:00
DEC	12:00	15:00

HOUSE ROCK RAPID (17.0 mi RR, beach)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	10:30	13:30
FEB	10:00	13:30
MAR	9:30	14:00
APR	9:00	13:30
MAY	8:30	14:00
JUN	8:30	14:00
JUL	8:30	14:00
AUG	9:00	13:30
SEP	9:30	14:00
OCT	10:00	13:30
NOV	10:30	13:30
DEC	10:30	13:30

The Boatman's Almanac

18 MI RR CAMP

(18.1 mi RR)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	12:00	16:00
FEB	11:00	15:30
MAR	9:30	15:30
APR	9:00	15:30
MAY	9:00	15:30
JUN	9:00	15:30
JUL	9:00	15:30
AUG	9:30	15:30
SEP	9:30	15:30
OCT	9:30	15:30
NOV	11:30	16:00
DEC	12:00	16:00

20 MI RL CAMP

(19.9 mi RL)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	10:30	14:30
FEB	10:00	14:30
MAR	9:30	14:30
APR	9:30	15:00
MAY	9:00	15:00
JUN	9:00	15:00
JUL	9:00	15:00
AUG	9:30	15:00
SEP	9:30	14:30
OCT	10:00	14:30
NOV	10:00	14:30
DEC	11:00	14:30

INDIAN DICK CAMP

(23.0 mi RL, lower camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	11:00	15:00
FEB	10:30	15:30
MAR	10:30	15:30
APR	10:00	15:30
MAY	8:30	15:30
JUN	8:00	15:30
JUL	8:00	15:30
AUG	10:00	15:30
SEP	10:30	15:30
OCT	10:30	15:30
NOV	11:00	15:00
DEC	11:00	15:00

24.5 MI RL CAMP

(upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	11:30	16:00
FEB	10:30	16:30
MAR	10:00	16:30
APR	9:00	16:30
MAY	8:00	16:00
JUN	8:00	16:00
JUL	8:00	16:00
AUG	9:00	16:00
SEP	9:30	16:30
OCT	10:30	16:30
NOV	11:00	16:00
DEC*	12:00	16:00

(*0.5 hr break 1500-1530)

NORTH CANYON

(20.5 mi RR, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	10:30	13:30
FEB	10:00	14:00
MAR	9:30	15:30
APR	9:30	16:00
MAY	9:00	16:00
JUN	8:30	16:00
JUL	8:30	16:00
AUG	9:00	16:00
SEP	9:30	15:30
OCT	10:00	14:00
NOV	10:30	14:00
DEC	10:30	13:30

INDIAN DICK CAMP

(23.0 mi RL, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	10:30	15:00
FEB	10:30	15:30
MAR	10:30	15:30
APR	8:30	15:00
MAY	8:30	15:00
JUN	8:30	15:30
JUL	8:30	15:30
AUG	8:30	15:00
SEP	10:00	15:30
OCT	10:30	15:30
NOV	10:30	15:00
DEC	11:00	15:00

26.3 MI RL CAMP

(camp above Tiger Wash)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	13:30	15:00
FEB	12:30	15:30
MAR	12:30	15:30
APR	11:30	16:00
MAY	11:00	16:00
JUN	10:30	16:00
JUL	10:30	16:00
AUG	11:30	16:00
SEP	12:00	15:30
OCT	12:30	15:30
NOV	13:00	15:00
DEC	13:30	15:00

SILVER GROTTTO

(29.3 mi RL camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	15:30	16:00
FEB	14:30	16:00
MAR	13:30	16:30
APR	12:00	16:30
MAY	11:30	17:00
JUN	11:30	17:00
JUL	11:30	17:00
AUG	12:00	16:30
SEP	13:00	16:30
OCT	14:00	16:00
NOV	13:30	16:00
DEC	13:30	16:00

The Boatman's Almanac

FENCE FAULT
(30.4 mi RR, camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	10:30	14:30
FEB	10:00	14:30
MAR	9:00	15:00
APR	8:30	15:30
MAY	8:00	15:30
JUN	7:30	16:00
JUL	7:30	16:00
AUG	8:00	15:30
SEP	9:00	15:00
OCT	9:30	14:30
NOV	10:30	14:00
DEC	10:30	14:30

SOUTH CANYON
(31.6 mi RR, main camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	11:30	15:30
FEB	11:00	15:00
MAR	10:30	15:30
APR	9:30	16:00
MAY	9:00	16:00
JUN	8:30	16:00
JUL	9:00	16:00
AUG	9:00	16:00
SEP	10:00	15:30
OCT	11:00	15:00
NOV	11:00	15:00
DEC	11:30	14:30

NAUTILOID CANYON
(34.8 mi RL, main camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	10:00	13:30
FEB	11:00	14:00
MAR	10:30	14:30
APR	10:00	14:30
MAY	10:30	15:00
JUN	10:30	15:00
JUL	10:30	15:00
AUG	10:00	14:30
SEP	10:30	14:30
OCT	10:00	14:30
NOV	10:00	13:30
DEC	10:00	13:30

MARTHA'S KITCHEN
(38.3 mi RL, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB	(no direct light)	
MAR	(no direct light)	
APR	14:00	16:00
MAY	12:30	15:30
JUN	12:00	15:30
JUL	12:30	15:30
AUG	13:00	16:00
SEP	(no direct light)	
OCT	(no direct light)	
NOV	(no direct light)	
DEC	(no direct light)	

VASEYS PARADISE
(31.8 mi RR, near river)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB	(no direct light)	
MAR	7:30	11:30
APR	7:00	13:30
MAY	7:30	13:30
JUN	7:30	14:00
JUL	7:30	13:30
AUG	7:00	13:30
SEP	7:30	11:30
OCT	8:30	9:30
NOV	(no direct light)	
DEC	(no direct light)	

LITTLE REDWALL
(34.0 mi RL camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	13:00	14:00
FEB	13:00	14:30
MAR	13:00	15:00
APR	13:00	15:30
MAY	13:00	15:30
JUN	13:00	16:00
JUL	13:00	15:30
AUG	13:30	15:30
SEP	13:00	15:00
OCT	13:00	14:30
NOV	13:00	14:00
DEC	13:00	14:00

BUCK FARM CAMP
(40.9 mi RR, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	12:30	15:00
FEB	12:00	15:30
MAR	10:30	15:30
APR	10:00	14:30
MAY	9:00	15:00
JUN	7:30	16:30
JUL	8:00	16:30
AUG	9:30	14:30
SEP	10:30	15:00
OCT	13:00	15:30
NOV	13:00	15:30
DEC	13:00	15:00

BERT'S CANYON
(41.4 mi RR, side canyon)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB	(no direct light)	
MAR	(no direct light)	
APR*	8:00	14:30
MAY	7:30	14:30
JUN	7:30	14:30
JUL	7:30	14:30
AUG	7:30	14:30
SEP**	8:00	14:30
OCT	(no direct light)	
NOV	(no direct light)	
DEC	(no direct light)	

(*3 hr break 1000-1300)
(**2.5 hr break 1000-1230)

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44 MI RL CAMP
(44.2 mi RL)

Month	Sunrise	Sunset
JAN	(no direct light)	
FEB	12:30	15:30
MAR	11:00	17:00
APR	10:30	16:30
MAY	10:00	16:00
JUN	9:30	16:00
JUL	9:30	16:00
AUG	10:30	16:30
SEP	10:30	17:00
OCT	12:00	16:30
NOV	(no direct light)	
DEC	(no direct light)	

DUCK N QUACK
(46.9 mi RL, camp)

Month	Sunrise	Sunset
JAN	11:00	14:00
FEB	11:30	15:00
MAR	12:00	14:30
APR	12:00	15:00
MAY	12:30	16:00
JUN	12:30	16:00
JUL	12:30	16:00
AUG	12:00	15:30
SEP	12:00	15:00
OCT	12:00	15:00
NOV	11:30	14:00
DEC	11:00	14:00

SADDLE CANYON
(side canyon, near narrows)

Month	Sunrise	Sunset
JAN	(no direct light)	
FEB	(no direct light)	
MAR	13:30	14:30
APR	12:30	14:30
MAY	12:00	14:00
JUN	11:30	14:00
JUL	12:00	14:00
AUG	12:30	14:30
SEP	13:00	14:30
OCT	13:30	14:30
NOV	(no direct light)	
DEC	(no direct light)	

DINOSAUR CAMP
(50.0 mi RR)

Month	Sunrise	Sunset
JAN	9:30	12:30
FEB*	9:30	15:30
MAR	9:00	15:30
APR	8:30	16:00
MAY	8:30	16:00
JUN	8:30	16:00
JUL	8:30	16:00
AUG	8:30	16:00
SEP	9:00	15:30
OCT**	9:00	15:30
NOV	9:30	12:30
DEC	10:00	12:00

(*1 hr break 1300-1400)
(**0.5 hr break 1300-1330)

UPPER SADDLE
(47.0 mi RR, camp)

Month	Sunrise	Sunset
JAN	9:00	12:30
FEB	9:00	13:00
MAR	9:00	14:00
APR*	9:00	15:00
MAY*	9:30	16:00
JUN*	9:00	16:00
JUL*	9:00	16:00
AUG*	9:00	16:00
SEP*	9:00	15:00
OCT	9:00	13:30
NOV	9:00	12:30
DEC	9:00	12:30

(*1-2 hrs shade from trees)

LOWER SADDLE
(47.1 mi RR, beach)

Month	Sunrise	Sunset
JAN	8:30	12:30
FEB	9:00	13:00
MAR	9:00	13:30
APR	9:00	14:00
MAY	8:00	15:30
JUN	8:00	15:00
JUL	8:00	15:00
AUG	8:30	14:30
SEP	9:00	13:30
OCT	9:00	13:00
NOV	8:30	12:30
DEC	8:30	12:30

51.2 MI RL CAMP
(upper bank)

Month	Sunrise	Sunset
JAN	10:30	14:30
FEB	10:00	14:30
MAR	9:30	15:00
APR	9:30	15:30
MAY	8:30	15:30
JUN	8:30	16:00
JUL	8:30	15:30
AUG	9:00	15:30
SEP	9:30	15:00
OCT	10:00	14:30
NOV	10:30	15:00
DEC	11:00	14:30

LITTLE NANKOWEAP
(51.8 mi RR, main camp)

Month	Sunrise	Sunset
JAN	9:30	14:00
FEB	9:00	15:30
MAR	8:30	15:30
APR	8:30	15:00
MAY	8:30	15:00
JUN	8:30	15:00
JUL	8:30	15:00
AUG	8:30	15:00
SEP	8:30	15:30
OCT	8:30	15:30
NOV	9:30	14:00
DEC	9:30	13:30

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MAIN NANKOWEAP

(53.0 mi RR, main camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	8:30	14:00
FEB	8:30	14:30
MAR	8:30	15:00
APR	8:30	15:00
MAY	8:30	15:00
JUN	8:30	15:00
JUL	8:30	15:30
AUG	8:30	15:00
SEP	8:30	15:00
OCT	8:30	14:30
NOV	8:30	14:00
DEC	8:30	12:00

LOWER NANKOWEAP

(53.2 mi RR, lower camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	8:30	11:30
FEB	8:00	14:00
MAR	8:00	14:30
APR	8:00	15:00
MAY	8:00	15:00
JUN	8:00	15:00
JUL	8:00	15:00
AUG	8:00	15:00
SEP	8:00	14:30
OCT	8:00	14:30
NOV*	8:00	12:00
DEC	8:30	11:30

(*1.5 hr break 1230-1400)

KWAGUNT CAMP

(56.2 mi RR, beach)

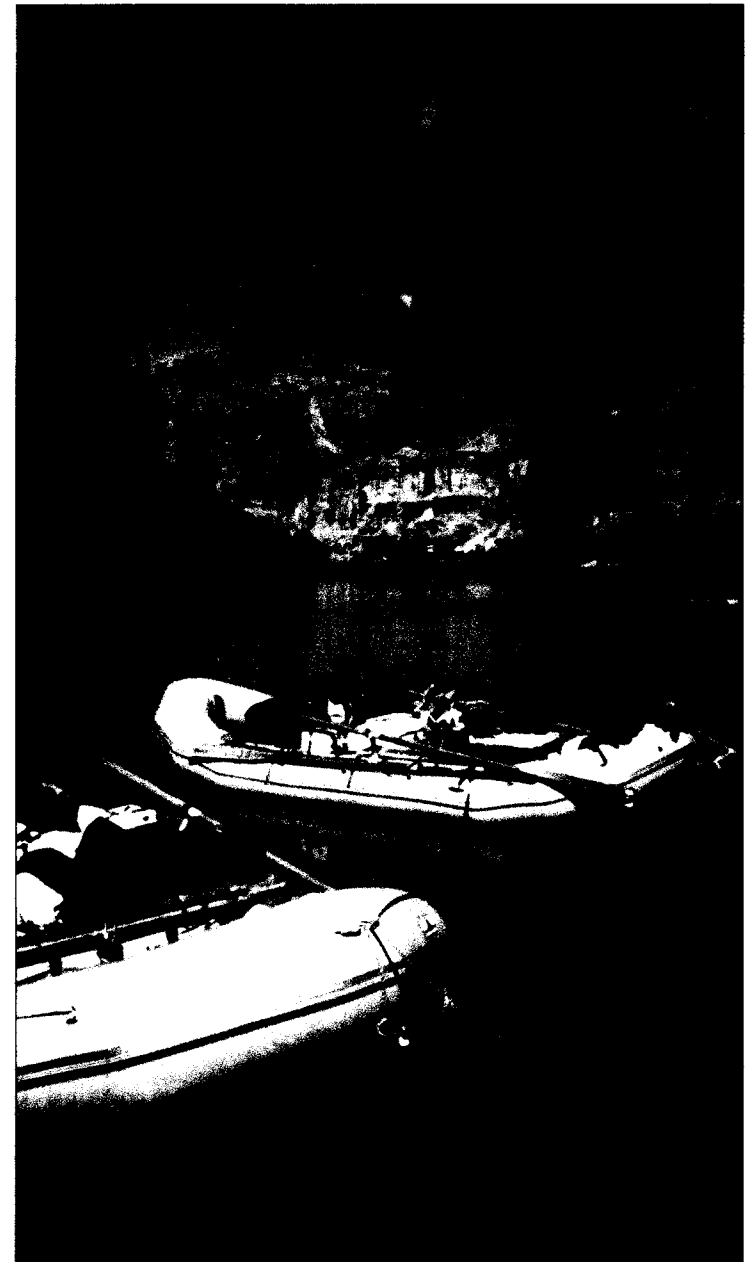
<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	10:30	14:00
FEB	10:00	14:30
MAR	9:30	14:30
APR	8:30	15:30
MAY	8:30	17:00
JUN	8:30	17:00
JUL	8:30	17:00
AUG	8:30	17:00
SEP	9:30	15:30
OCT	9:30	15:30
NOV	10:30	14:00
DEC	10:30	14:30

AWATUBI CAMP

(58.2 mi RR, northside)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	9:00	12:30
FEB*	8:30	16:00
MAR	8:30	16:00
APR	8:30	16:00
MAY	8:30	16:00
JUN	8:30	16:00
JUL	8:30	16:00
AUG	8:30	16:00
SEP	8:30	16:00
OCT	8:30	16:00
NOV	8:30	12:30
DEC	9:00	12:30

(*0.5 hr break 1300-1330)



LCR MOUTH
(61.4 mi RR, confluence)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN*	10:30	16:00
FEB	9:30	16:30
MAR	7:30	16:30
APR	7:00	16:30
MAY	7:00	16:30
JUN	7:00	16:30
JUL	7:00	16:30
AUG	7:00	16:30
SEP	7:00	16:30
OCT	8:00	16:30
NOV*	10:30	16:00
DEC*	10:30	15:30

(*1.5 hr break 1130-1300)

LAVA CHUAR CAMP
(65.5 mi RR, near kitchen)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	8:30	14:30
FEB	8:30	14:30
MAR	8:00	16:00
APR	7:30	16:00
MAY	7:30	16:00
JUN	7:30	16:00
JUL	7:30	16:00
AUG	7:30	16:00
SEP	8:00	16:00
OCT	8:00	14:30
NOV	8:30	14:30
DEC	9:00	14:30

CARDENAS CAMP
(71.0 mi RL, near kitchen)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	8:30	15:00
FEB	7:30	16:00
MAR	7:00	17:00
APR	6:30	17:30
MAY	6:00	18:00
JUN	6:00	18:00
JUL	6:00	18:00
AUG	6:00	17:30
SEP	7:00	17:00
OCT	7:30	16:30
NOV	8:30	15:00
DEC	8:30	15:00

UPPER UNKAR
(71.9 mi RR, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	8:30	15:00
FEB	8:00	15:00
MAR	8:00	14:30
APR	7:30	15:30
MAY	5:30	15:30
JUN	5:30	16:00
JUL	5:30	16:00
AUG	7:00	15:30
SEP	8:00	14:30
OCT	8:00	15:00
NOV	8:30	15:00
DEC	8:30	15:00

UPPER TANNER
(68.3 mi RR, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	9:00	15:30
FEB	8:00	15:30
MAR	7:30	15:30
APR	7:00	15:30
MAY	6:30	16:00
JUN	6:30	16:00
JUL	6:30	16:00
AUG	7:00	15:30
SEP	7:30	15:30
OCT	8:00	15:30
NOV	9:00	15:30
DEC	9:00	15:30

TANNER CAMP
(68.4 mi RR, main camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	9:00	16:30
FEB	8:30	16:30
MAR	8:00	17:00
APR	7:30	17:30
MAY	6:30	18:00
JUN	6:30	18:00
JUL	6:30	18:00
AUG	7:00	17:30
SEP	7:30	17:00
OCT	8:30	16:30
NOV	9:00	16:30
DEC	9:00	16:30

UPR RATTLESNAKE
(74.1 mi RR, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	12:30	16:00
FEB	7:30	16:00
MAR	7:00	16:30
APR	6:00	17:00
MAY	6:00	17:30
JUN	6:00	17:00
JUL	6:00	17:00
AUG	6:00	17:00
SEP	7:00	16:30
OCT	7:30	16:00
NOV	12:30	16:00
DEC	13:00	15:30

LWR RATTLESNAKE
(74.3 mi RR, lower camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	10:00	15:00
FEB	9:30	15:00
MAR	9:00	15:00
APR	8:30	15:30
MAY	8:00	16:00
JUN	8:00	17:00
JUL	8:00	16:00
AUG	8:30	15:30
SEP	8:30	15:00
OCT	9:30	15:00
NOV	10:00	15:00
DEC	10:30	15:00

The Boatman's Almanac

UPPER NEVILL'S

(75.3 mi RL, upper camp)

Month	Sunrise	Sunset
JAN	13:00	15:30
FEB	12:30	16:00
MAR*	11:30	16:00
APR**	11:30	16:30
MAY**	13:00	17:00
JUN**	13:00	17:00
JUL**	13:00	17:00
AUG	13:00	16:30
SEP	11:00	16:00
OCT	12:30	16:00
NOV	13:00	15:30
DEC	13:30	15:30

(*0.5 hr break 1200-1230)
 (*2-3 hrs shade from trees)

NEVILL'S RAPID

(75.6 mi RL, camp)

Month	Sunrise	Sunset
JAN	10:30	15:30
FEB	9:00	15:00
MAR	9:00	15:00
APR	8:30	15:00
MAY	7:30	15:00
JUN	7:30	15:00
JUL	7:30	15:00
AUG	8:00	15:30
SEP	9:00	15:00
OCT	9:00	15:00
NOV	9:30	15:30
DEC	10:30	15:30

HANCE RAPID CAMP

(76.6 mi RL, beach)

Month	Sunrise	Sunset
JAN	12:30	14:30
FEB*	11:00	15:30
MAR	8:00	16:00
APR	6:30	17:30
MAY	6:00	18:00
JUN	6:00	18:00
JUL	6:00	18:00
AUG	6:30	17:30
SEP	7:00	17:00
OCT	9:00	15:00
NOV	12:30	14:00
DEC	12:30	13:30

(*0.5 hr break 1130-1200)

GRAPEVINE CAMP

(81.3 mi RL, kitchen)

Month	Sunrise	Sunset
JAN	(no direct light)	
FEB*	8:00	10:00
MAR**	7:30	13:30
APR	7:00	13:30
MAY	7:00	14:00
JUN	7:00	14:30
JUL	7:00	14:00
AUG	7:00	14:00
SEP**	7:30	13:30
OCT**	7:30	13:00
NOV	(no direct light)	
DEC	(no direct light)	

(*0.5 hr break 0900-0930)
 (**2 hr break 1000-1200)

UPPER CREMATION

(87.1 mi RL, upper camp)

Month	Sunrise	Sunset
JAN	(no direct light)	
FEB	(no direct light)	
MAR	(no direct light)	
APR*	7:30	15:30
MAY**	7:30	15:30
JUN	7:30	16:00
JUL	7:30	15:30
AUG***	7:30	15:30
SEP	(no direct light)	
OCT	(no direct light)	
NOV	(no direct light)	
DEC	(no direct light)	

(*5 hr break 0930-1430)
 (**0.5 hr break 1200-1230)
 (***)3.5 hr brk 1030-1400)

LOWER CREMATION

(87.2 mi RL, lower camp)

Month	Sunrise	Sunset
JAN	10:30	12:00
FEB	10:30	13:00
MAR	7:30	15:30
APR	7:30	17:00
MAY	7:30	18:00
JUN	7:30	18:00
JUL	7:30	18:00
AUG	7:30	17:30
SEP	7:30	16:00
OCT	10:00	14:30
NOV	10:30	12:00
DEC	10:30	12:00

TRINITY CREEK

(91.6 mi RR, camp)

Month	Sunrise	Sunset
JAN	8:00	12:00
FEB	8:00	15:00
MAR	8:00	17:00
APR	8:00	17:30
MAY	8:00	16:30
JUN	8:00	16:30
JUL	8:00	16:30
AUG	8:00	17:00
SEP	8:00	17:00
OCT	9:00	17:00
NOV	8:00	12:30
DEC*	8:00	11:00

(*0.5 hr break 0900-0930)

GRANITE RAPID

(93.4 mi RL, camp)

Month	Sunrise	Sunset
JAN	(no direct light)	
FEB	11:00	12:30
MAR	10:00	14:30
APR	9:00	16:30
MAY	6:00	18:00
JUN	6:00	18:00
JUL	6:00	18:00
AUG	8:30	17:00
SEP	9:00	14:30
OCT	10:30	13:00
NOV	12:00	12:30
DEC	(no direct light)	

NEW SHADY GROVE
(102.8 mi RR, main camp)

Month	Sunrise	Sunset
JAN	10:00	14:30
FEB	9:30	15:00
MAR	9:00	15:00
APR	9:00	15:00
MAY	8:30	15:30
JUN	8:30	15:30
JUL	8:30	15:30
AUG	8:30	15:30
SEP	9:00	15:00
OCT	9:30	15:00
NOV	10:00	14:30
DEC	10:00	14:30

ROSS WHEELER
(107.8 mi RL, Upper Bass)

Month	Sunrise	Sunset
JAN	9:00	13:30
FEB	8:30	14:00
MAR	8:00	14:30
APR	7:00	15:00
MAY	6:30	15:30
JUN	6:30	16:00
JUL	6:30	15:30
AUG	7:00	15:00
SEP	7:30	14:30
OCT	8:30	14:00
NOV	9:00	13:30
DEC	9:30	13:30

LOWER GARNET
(114.5 mi RR, camp)

Month	Sunrise	Sunset
JAN	10:00	14:30
FEB	9:30	14:30
MAR	9:00	14:30
APR	8:30	15:00
MAY	8:30	15:30
JUN	8:30	16:00
JUL	8:30	15:30
AUG	8:00	15:00
SEP	8:30	14:30
OCT	9:30	14:30
NOV	10:00	14:30
DEC	10:30	14:30

ELVES CHASM
(116.6 mi RI, lower area)

Month	Sunrise	Sunset
JAN	(no direct light)	
FEB	(no direct light)	
MAR	14:30	15:00
APR	13:00	15:00
MAY	11:30	15:00
JUN	11:30	14:30
JUL	11:30	14:30
AUG	12:30	15:00
SEP	14:00	14:30
OCT	(no direct light)	
NOV	(no direct light)	
DEC	(no direct light)	

LOWER BASS CAMP
(108.2 mi RR)

Month	Sunrise	Sunset
JAN	8:30	14:30
FEB	7:30	16:30
MAR	7:30	17:00
APR	7:00	17:00
MAY	7:00	17:00
JUN	7:00	17:00
JUL	7:00	17:00
AUG	7:00	17:00
SEP	7:30	17:00
OCT	7:30	16:30
NOV	8:30	14:30
DEC	8:30	14:30

110 MI RR CAMP
(109.4 mi RR)

Month	Sunrise	Sunset
JAN	8:00	15:00
FEB	8:00	16:00
MAR	8:00	17:30
APR	8:00	17:30
MAY	8:00	17:30
JUN	8:00	17:30
JUL	8:00	17:30
AUG	8:00	17:30
SEP	8:00	17:30
OCT	8:00	16:30
NOV	8:00	15:30
DEC	8:00	14:30

118 MI RR CAMP
(118.1 mi RR)

Month	Sunrise	Sunset
JAN	10:30	14:00
FEB	10:30	14:30
MAR	10:00	15:00
APR	10:00	16:30
MAY	10:00	16:30
JUN	10:00	16:30
JUL	10:00	16:30
AUG	10:00	15:30
SEP	10:00	15:00
OCT	10:00	14:30
NOV	10:30	14:00
DEC	10:30	14:00

BIG DUNE CAMP
(119.0 mi RR)

Month	Sunrise	Sunset
JAN	9:30	13:30
FEB	9:00	14:00
MAR	8:30	14:30
APR	8:30	15:30
MAY	8:30	16:00
JUN	8:30	18:00
JUL	8:30	17:30
AUG	8:30	15:30
SEP	8:30	15:00
OCT	8:30	14:00
NOV	9:30	13:30
DEC	9:30	13:30

MICHAEL'S CAMP

(119.5 mi RL)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	9:30	12:00
FEB	9:00	12:30
MAR	7:30	13:30
APR	7:30	16:00
MAY	7:00	17:00
JUN	7:00	18:00
JUL	7:00	17:30
AUG	7:30	16:00
SEP	7:30	14:30
OCT	8:00	13:00
NOV	9:00	12:30
DEC	9:30	12:00

BLACKTAIL CAMP

(120.0 mi RR, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	8:30	11:30
FEB*	8:00	15:00
MAR	7:00	16:00
APR	7:30	17:30
MAY	7:30	18:00
JUN	7:30	18:30
JUL	7:30	18:00
AUG	7:30	18:00
SEP	7:00	17:00
OCT	8:00	15:00
NOV	8:00	11:30
DEC	8:30	11:00

(*2 hr break 1200-1400)

STONE CREEK

(132.0 mi RR, camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	9:30	14:30
FEB	9:00	15:00
MAR	8:00	15:00
APR	7:30	15:30
MAY	7:30	16:30
JUN	7:30	17:00
JUL	7:30	16:30
AUG	7:30	15:30
SEP	7:30	15:30
OCT	9:00	15:30
NOV	9:30	15:00
DEC	9:30	14:30

RACETRACK CAMP

(133.5 mi RR, camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	8:30	14:30
FEB	8:30	14:30
MAR	8:30	15:00
APR	8:30	17:00
MAY	9:00	17:00
JUN	9:00	17:00
JUL	9:00	17:00
AUG	9:00	17:00
SEP	8:30	16:00
OCT	8:30	14:30
NOV	8:30	14:30
DEC	8:30	14:30

122 MI RR CAMP

(122.2 mi RR)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN*	9:00	13:00
FEB	7:30	14:00
MAR	7:00	15:30
APR	6:30	16:30
MAY	7:00	18:00
JUN	7:00	18:00
JUL	7:00	17:00
AUG	6:30	17:00
SEP	6:30	16:30
OCT	7:30	14:30
NOV**	9:00	13:30
DEC***	9:00	13:00

(*2 hr break 1000-1200)
 (**1.5 hr break 1000-1130)
 (***)2.5 hr brk 0930-1200)

BELOW FOSSIL

(125.4 mi RL, camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	12:00	15:30
FEB*	9:00	16:00
MAR	8:00	16:00
APR	8:00	16:30
MAY	6:30	16:00
JUN	6:00	16:00
JUL	6:00	16:00
AUG	7:00	16:00
SEP	8:00	16:30
OCT	8:30	16:00
NOV	12:00	15:30
DEC	12:30	15:30

(*0.5 hr break 1000-1030)

TAPEATS CREEK

(133.8 mi RR, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	9:30	14:00
FEB	9:00	14:00
MAR	9:00	16:00
APR	9:00	16:30
MAY	9:00	15:30
JUN	9:00	15:30
JUL	9:00	15:30
AUG	9:00	16:00
SEP	9:00	16:00
OCT	9:00	15:00
NOV	10:00	14:00
DEC	10:30	14:00

THUNDER RIVER

(overlook by Thunder Spr)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	9:00	15:00
FEB	7:00	15:00
MAR	7:00	15:30
APR	6:30	15:30
MAY	6:30	15:30
JUN	6:30	15:30
JUL	6:30	15:30
AUG	6:30	15:30
SEP	7:00	15:30
OCT	7:00	15:00
NOV	8:30	14:30
DEC	8:00	14:30

UPPER OWL EYES
(134.2 mi RL, upper camp)

Month	Sunrise	Sunset
JAN	8:00	13:30
FEB	7:30	15:30
MAR	7:30	16:00
APR	7:30	16:30
MAY	7:30	17:30
JUN	7:30	18:00
JUL	7:30	17:30
AUG	7:30	16:30
SEP	7:30	16:00
OCT	7:30	15:30
NOV	8:00	13:30
DEC	8:00	13:30

ACROSS DEER CRK
(136.2 mi RL, camp)

Month	Sunrise	Sunset
JAN*	8:00	13:00
FEB	7:30	13:30
MAR	7:00	15:00
APR	7:00	15:30
MAY	7:00	18:30
JUN	7:00	18:30
JUL	7:00	18:00
AUG	7:00	17:30
SEP	7:00	15:30
OCT	7:30	14:00
NOV	8:00	13:00
DEC**	8:30	12:30

(*1 hr break 1000-1100)
(**0.5 hr break 1000-1030)

PONCHO'S KITCHEN
(136.8 mi RL, beach)

Month	Sunrise	Sunset
JAN	(no direct light)	
FEB	(no direct light)	
MAR	(no direct light)	
APR	13:00	15:30
MAY	11:30	16:00
JUN	10:30	18:30
JUL	11:30	17:00
AUG	12:30	16:00
SEP	13:30	15:00
OCT	(no direct light)	
NOV	(no direct light)	
DEC	(no direct light)	

(overhang always shaded;
western half of the beach
gets earlier sunlight)

FOOTBALL FIELD
(136.9 mi RL, "50-yd line")

Month	Sunrise	Sunset
JAN	9:30	10:30
FEB	7:30	11:30
MAR	7:00	13:00
APR	6:30	14:00
MAY	6:30	15:30
JUN	6:30	16:30
JUL	6:30	15:30
AUG	6:30	14:30
SEP	7:00	13:30
OCT	7:00	12:00
NOV	9:30	10:30
DEC	(at 1000 only)	

DEER SPRING
(Dutton Spring', on trail)

Month	Sunrise	Sunset
JAN	12:00	16:00
FEB	11:30	16:30
MAR	11:00	17:00
APR	8:30	17:00
MAY	9:00	17:30
JUN	9:00	17:00
JUL	9:00	17:00
AUG	8:30	17:00
SEP	11:00	17:00
OCT	11:00	16:30
NOV	11:30	16:00
DEC	11:30	16:00

OC'S CAMP
(136.3 mi RL, beach)

Month	Sunrise	Sunset
JAN	(no direct light)	
FEB	8:00	12:30
MAR	7:00	13:00
APR	7:00	15:00
MAY	6:30	17:00
JUN	6:30	18:00
JUL	6:30	17:30
AUG	7:00	15:30
SEP	7:00	14:00
OCT	7:00	13:00
NOV	(no direct light)	
DEC	(no direct light)	

BACKEDDY CAMP
(137.0 mi RL, kitchen)

Month	Sunrise	Sunset
JAN	(no direct light)	
FEB	8:00	9:00
MAR	8:00	9:30
APR	7:00	10:00
MAY	8:30	10:30
JUN	8:30	10:30
JUL	8:30	10:30
AUG	8:30	10:00
SEP	8:00	9:30
OCT	8:00	9:00
NOV	(no direct light)	
DEC	(no direct light)	

DORIS CAMP
(137.9 mi RL)

Month	Sunrise	Sunset
JAN	(no direct light)	
FEB	(no direct light)	
MAR	7:00	9:00
APR	7:00	10:00
MAY	6:30	11:30
JUN	6:30	11:30
JUL	6:30	11:30
AUG	7:00	10:30
SEP	7:00	9:30
OCT	(no direct light)	
NOV	(no direct light)	
DEC	(no direct light)	



KANAB CREEK

(143.5 mi RR, camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB*	10:00	16:30
MAR	7:30	16:30
APR	7:00	16:30
MAY	7:30	16:30
JUN	7:30	16:00
JUL	7:30	16:30
AUG	7:30	16:30
SEP	7:30	16:30
OCT*	10:00	16:30
NOV	(no direct light)	
DEC	(no direct light)	

(*5 hr break 1030-1530)

WHISPERING FALLS

(3 mi up Kanab Crk)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB	(no direct light)	
MAR	12:30	13:00
APR	11:30	13:00
MAY	11:30	13:00
JUN	11:30	13:00
JUL	11:30	13:00
AUG	11:30	13:30
SEP	12:00	13:00
OCT	(no direct light)	
NOV	(no direct light)	
DEC	(no direct light)	

ABOVE OLO CAMP

(145.1 mi RL)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	11:30	14:00
FEB	11:00	14:00
MAR	11:00	14:00
APR	11:00	14:30
MAY	10:30	14:30
JUN	10:30	14:30
JUL	10:30	14:30
AUG	11:00	14:30
SEP	11:00	14:00
OCT	11:00	14:00
NOV	11:30	14:00
DEC	11:30	14:00

OPPOSITE MATKAT

(147.9 mi RR, main camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	9:30	10:30
FEB	9:30	16:00
MAR	9:30	16:30
APR	9:30	16:00
MAY	8:30	15:30
JUN	7:00	15:30
JUL	7:00	15:30
AUG	9:00	16:00
SEP	9:30	16:30
OCT	9:30	16:00
NOV*	9:30	15:30
DEC	9:30	10:30

(*3.5 hr break 1030-1400)

MATKAT HOTEL

(148.4 mi RL, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB	(no direct light)	
MAR	(no direct light)	
APR	8:30	9:30
MAY*	6:30	12:30
JUN**	6:30	13:00
JUL*	6:30	12:30
AUG	8:00	9:30
SEP	(no direct light)	
OCT	(no direct light)	
NOV	(no direct light)	
DEC	(no direct light)	

(*2.5 hr break 0930-1200)
(**1.5 hr break 1000-1130)

UPSET HOTEL

(150.3 mi RL, camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB	16:00	16:30
MAR	15:00	16:30
APR	14:00	16:00
MAY	13:30	16:00
JUN	13:00	16:00
JUL	13:30	16:00
AUG	14:00	16:00
SEP	14:30	16:30
OCT	15:30	16:30
NOV	(no direct light)	
DEC	(no direct light)	

LEDGES CAMP

(151.5 mi RR, main camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	12:00	14:30
FEB	11:30	14:30
MAR	11:00	15:30
APR	11:00	15:30
MAY	10:00	15:00
JUN	10:00	15:00
JUL	9:30	15:00
AUG	10:30	15:00
SEP	11:00	15:30
OCT	11:30	14:30
NOV	12:00	14:30
DEC	12:30	14:00

LAST CHANCE

(155.7 mi RR, camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	11:00	14:00
FEB	10:30	14:00
MAR	10:30	14:30
APR	10:00	14:30
MAY	9:30	14:30
JUN	9:30	14:30
JUL	9:30	14:30
AUG	10:00	14:30
SEP	10:30	14:00
OCT	10:30	14:30
NOV	11:00	14:00
DEC	11:30	14:00

TUCKUP CAMP

(164.5 mi RR, beach)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	13:00	15:00
FEB	12:00	15:00
MAR	11:00	15:00
APR	10:00	15:30
MAY	9:30	15:30
JUN	9:00	15:30
JUL	9:00	15:30
AUG	10:00	15:30
SEP	10:30	15:00
OCT	11:30	15:00
NOV	13:00	15:00
DEC	13:00	15:00

UPPER NATIONAL

(166.5 mi RL, camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB	13:00	14:00
MAR*	8:00	16:30
APR	8:30	16:00
MAY	8:30	16:00
JUN	8:30	16:00
JUL	8:30	16:00
AUG	8:30	16:00
SEP	8:00	16:30
OCT	12:30	14:00
NOV	14:00	15:00
DEC	(no direct light)	

(*2.5 hr break 0930-1200)

LOWER NATIONAL

(166.6 mi RL, camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB	14:00	14:30
MAR	12:30	16:00
APR	11:30	16:30
MAY	10:00	16:00
JUN	10:00	16:00
JUL	10:00	16:00
AUG	11:00	16:30
SEP	12:00	16:30
OCT	14:00	15:00
NOV	(no direct light)	
DEC	(no direct light)	

FERN GLEN CAMP

(168.0 mi RR, kitchen)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	14:00	15:00
FEB*	7:30	15:00
MAR	7:30	15:30
APR	7:30	15:30
MAY	8:00	16:30
JUN	7:30	16:00
JUL	7:30	16:00
AUG	7:30	15:30
SEP	7:30	15:30
OCT	7:30	15:30
NOV	14:00	15:00
DEC	14:00	15:00

(*4 hr break 0930-1330)

FERN GLEN SEEP
(large hanging garden)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB	(no direct light)	
MAR	9:30	10:00
APR	9:30	14:00
MAY	10:00	14:30
JUN	10:00	14:00
JUL	10:00	14:30
AUG	10:00	14:00
SEP	9:30	13:00
OCT	(no direct light)	
NOV	(no direct light)	
DEC	(no direct light)	

MOHAWK CANYON
(171.6 mi RL, beach)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	10:30	12:30
FEB	10:00	12:30
MAR	9:30	16:30
APR	8:30	17:00
MAY	6:00	16:30
JUN	6:00	16:30
JUL	6:00	16:30
AUG	8:00	17:00
SEP	9:30	17:00
OCT	9:30	12:30
NOV	10:00	12:30
DEC	10:30	11:30

COVE CANYON
(174.3 mi RR, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	15:30	16:00
FEB*	12:00	16:30
MAR**	7:30	16:30
APR	7:30	16:30
MAY	7:30	16:00
JUN	7:30	17:00
JUL	7:30	17:00
AUG	7:30	17:00
SEP	7:30	17:00
OCT***	7:00	17:00
NOV	15:00	16:00
DEC	15:30	16:00

(*1 hr break 1230-1330)
(**1 hr break 1000-1100)
(***3.5 hr brk 0800-1130)

BELOW RED SLIDE
(176.0 mi RL, camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	13:00	15:30
FEB	12:30	15:30
MAR	11:30	15:30
APR	9:30	15:30
MAY	9:00	15:00
JUN	7:30	15:00
JUL	8:30	15:00
AUG	9:00	15:30
SEP	10:00	15:30
OCT	12:00	15:30
NOV	13:00	15:30
DEC	13:00	15:30

HONGA SPRING
(177.1 mi RL, camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	12:30	14:00
FEB	11:30	15:00
MAR	9:00	15:00
APR	9:30	16:00
MAY	9:00	15:30
JUN	9:00	15:30
JUL	9:00	15:30
AUG	9:30	16:00
SEP	10:00	15:00
OCT	10:00	15:00
NOV	12:00	14:00
DEC	12:30	13:30

TEQUILA BEACH
(179.7 mi RR, camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB*	11:00	16:30
MAR	10:00	16:30
APR	7:30	16:00
MAY	7:00	16:30
JUN	6:00	16:30
JUL	6:00	16:30
AUG	7:30	16:00
SEP	8:30	16:30
OCT**	11:00	16:30
NOV	16:00	16:30
DEC	(no direct light)	

(*1.5 hr break 1300-1430)
(**0.5 hr break 1300-1330)

185.5 MI RR CAMP
(lower kitchen area)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN*	10:30	15:30
FEB	10:00	16:00
MAR	9:30	15:30
APR	8:30	15:30
MAY	8:00	15:30
JUN	7:30	15:30
JUL	7:30	15:30
AUG	8:00	15:30
SEP	9:00	15:30
OCT	10:00	16:00
NOV	10:30	16:00
DEC*	10:30	15:30

(*0.5 hr break 1130-1200)

186 MI RL CAMP
(lower camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	11:30	12:30
FEB	11:00	16:00
MAR	10:30	16:00
APR	8:00	17:00
MAY	7:30	16:30
JUN	7:30	16:00
JUL	8:00	16:00
AUG	8:00	16:30
SEP	10:00	16:30
OCT	10:30	16:00
NOV	11:00	12:30
DEC	12:00	12:30

WHITMORE HELIPAD

(187.1 mi RL, beach)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB	15:00	16:00
MAR	13:00	17:00
APR	12:00	17:00
MAY	11:00	16:30
JUN	11:00	16:30
JUL	11:00	16:30
AUG	11:30	17:00
SEP	12:30	17:00
OCT	14:30	16:30
NOV	(no direct light)	
DEC	(no direct light)	

WHITMORE CAMP

(188.2 mi RR, lower camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	10:00	14:00
FEB	10:00	15:30
MAR	9:30	16:00
APR	8:30	17:00
MAY	8:00	16:30
JUN	7:30	17:00
JUL	8:00	16:30
AUG	8:30	17:00
SEP	9:00	16:00
OCT	9:30	15:30
NOV	10:30	14:00
DEC	10:30	14:00

PARASHANT CAMP

(198.5 mi RR)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	(no direct light)	
FEB	9:00	14:00
MAR	8:30	14:00
APR	9:00	14:00
MAY	8:00	14:30
JUN	8:00	14:30
JUL	7:30	14:30
AUG	8:30	14:30
SEP	8:30	14:30
OCT	8:30	14:00
NOV	9:00	14:00
DEC	9:00	14:00

202 MI RR CAMP

(main camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	9:30	15:30
FEB	9:30	15:30
MAR	9:30	15:30
APR	8:30	16:00
MAY	8:00	16:00
JUN	7:30	16:00
JUL	8:00	16:00
AUG	8:30	16:00
SEP	9:30	16:00
OCT	9:30	15:30
NOV	9:30	15:30
DEC	10:00	15:30

190 MI RL CAMP

(190.3 mi RL)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	9:30	16:00
FEB	8:30	16:00
MAR	8:30	16:00
APR	7:30	16:30
MAY	7:00	16:30
JUN	6:30	16:30
JUL	6:30	16:30
AUG	7:30	16:30
SEP	8:00	16:00
OCT	8:30	16:00
NOV	8:30	16:30
DEC	9:30	15:30

HUALAPAI ACRES

(194.1 mi RL, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	11:30	12:00
FEB	11:00	14:00
MAR	8:00	16:00
APR	7:30	17:30
MAY	7:00	19:30
JUN	7:30	18:00
JUL	7:30	18:00
AUG	7:30	16:30
SEP	8:00	16:00
OCT	10:30	14:00
NOV	11:30	13:30
DEC	(no direct light)	

GRANITE PARK

(208.8 mi RL, beach)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN*	9:00	15:00
FEB*	9:00	15:30
MAR*	9:00	16:30
APR	9:00	17:30
MAY	8:00	17:30
JUN	8:00	17:30
JUL	8:00	17:30
AUG	9:00	17:30
SEP*	8:00	17:00
OCT*	9:00	15:30
NOV*	10:00	15:00
DEC*	10:00	15:30

(*1-2 hrs shade from trees)

214.2 MI RR CAMP

(lower beach)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	8:00	13:30
FEB	8:00	14:30
MAR	7:30	15:00
APR	7:30	16:00
MAY	7:30	16:30
JUN	7:30	16:30
JUL	7:30	16:30
AUG	7:30	16:00
SEP	7:30	15:30
OCT	8:00	15:00
NOV	8:00	14:30
DEC	8:00	13:30

THREE SPRINGS

(215.6 mi RL, drainage)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	9:30	14:30
FEB	8:30	16:00
MAR	7:30	16:00
APR	7:00	16:00
MAY	7:00	16:30
JUN	7:00	16:30
JUL	7:00	16:30
AUG	7:00	16:30
SEP	7:00	16:00
OCT	8:00	16:00
NOV	9:30	14:30
DEC	10:30	14:00

UPPER 220 MI RR

(219.8 mi RR, upper camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	8:30	15:00
FEB	8:30	16:00
MAR	7:30	16:00
APR	7:30	16:00
MAY	7:30	16:30
JUN	7:30	16:30
JUL	7:30	16:30
AUG	7:30	16:00
SEP	7:30	15:30
OCT	8:00	16:00
NOV	8:30	15:30
DEC	8:30	15:00

224.5 MI RL CAMP

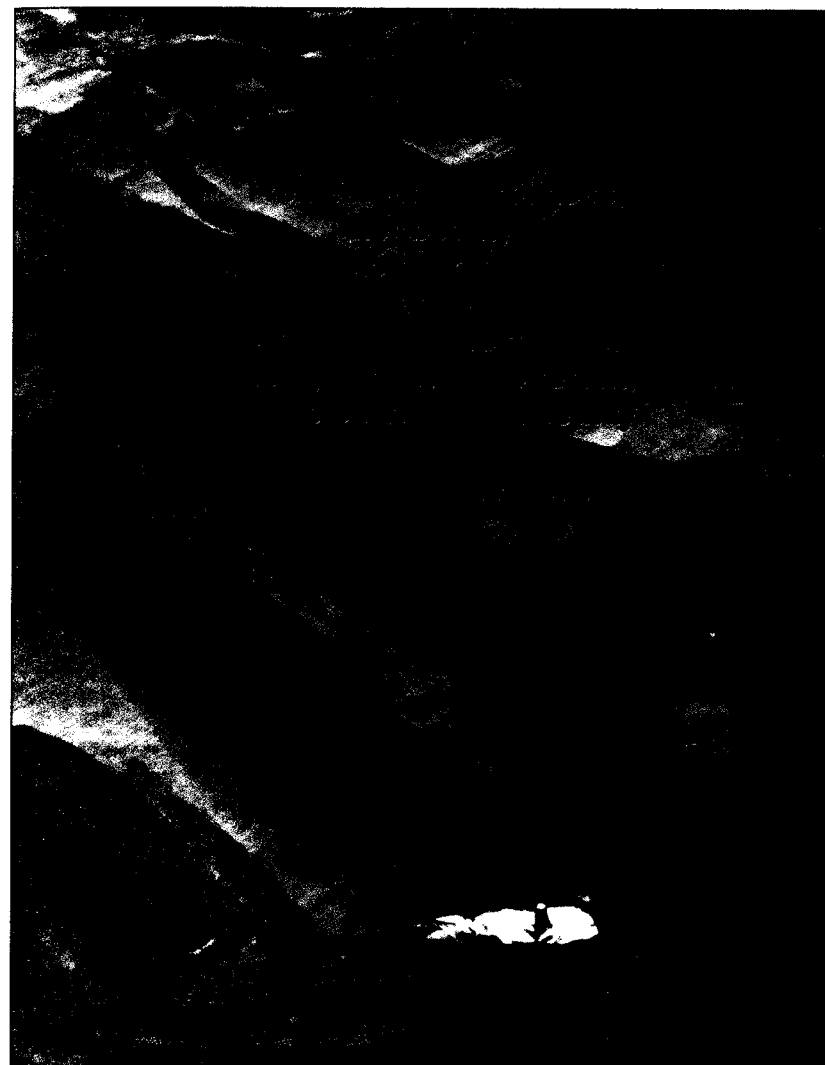
(lower camp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	11:30	16:00
FEB	10:00	16:00
MAR	9:30	16:30
APR	8:30	17:30
MAY	8:00	17:00
JUN	8:00	17:30
JUL	8:00	17:00
AUG	8:30	17:00
SEP	9:00	16:30
OCT	10:00	16:00
NOV	11:30	16:00
DEC	12:00	16:00

DIAMOND CREEK

(cobble area of ramp)

<u>Month</u>	<u>Sunrise</u>	<u>Sunset</u>
JAN	8:30	16:00
FEB	7:30	16:30
MAR	7:00	16:30
APR	7:00	16:30
MAY	7:00	16:30
JUN	6:30	16:30
JUL	6:30	16:30
AUG	7:00	16:30
SEP	7:00	16:30
OCT	7:30	16:30
NOV	8:30	16:00
DEC	9:00	16:00



About the Author

Jeff Sorensen is a wildlife biologist with the Arizona Game & Fish Department. Over the last six years, Jeff participated in studies of the Kanab ambersnail at Vaseys Paradise. He has also surveyed numerous springs & seeps along the river corridor & remote backcountry of Grand Canyon.

