

Hourly Sun Positions

La Plata County, Colorado

Time Zone: Mountain Latitude: 37° 30' North Longitude: 108° 00' West
(Azimuth of 0° = North; 90° = East; 180° = South; 270° = West)
Note: Adjacent dates follow similar sun paths (except the solstices).

JANUARY 21 (Standard Time)			NOVEMBER 21 (Standard Time)		
TIME	AZIMUTH ANGLE	ALTITUDE ANGLE	TIME	AZIMUTH ANGLE	ALTITUDE ANGLE
8:00 AM	120° 38'	5° 28'	8:00 AM	125° 5'	9° 30'
9:00 AM	131° 4'	15° 7'	9:00 AM	136° 11'	18° 32'
10:00 AM	143° 16'	23° 13'	10:00 AM	149° 13'	25° 46'
11:00 AM	157° 32'	29° 7'	11:00 AM	164° 14'	30° 29'
NOON	173° 32'	32° 6'	NOON	180° 35'	32° 4'
1:00 PM	190° 8'	31° 43'	1:00 PM	196° 53'	30° 14'
2:00 PM	205° 49'	28° 2'	2:00 PM	211° 47'	25° 19'
3:00 PM	219° 37'	21° 35'	3:00 PM	224° 40'	17° 56'
4:00 PM	231° 24'	13° 5'	4:00 PM	235° 39'	8° 48'
5:00 PM	241° 30'	3° 10'			

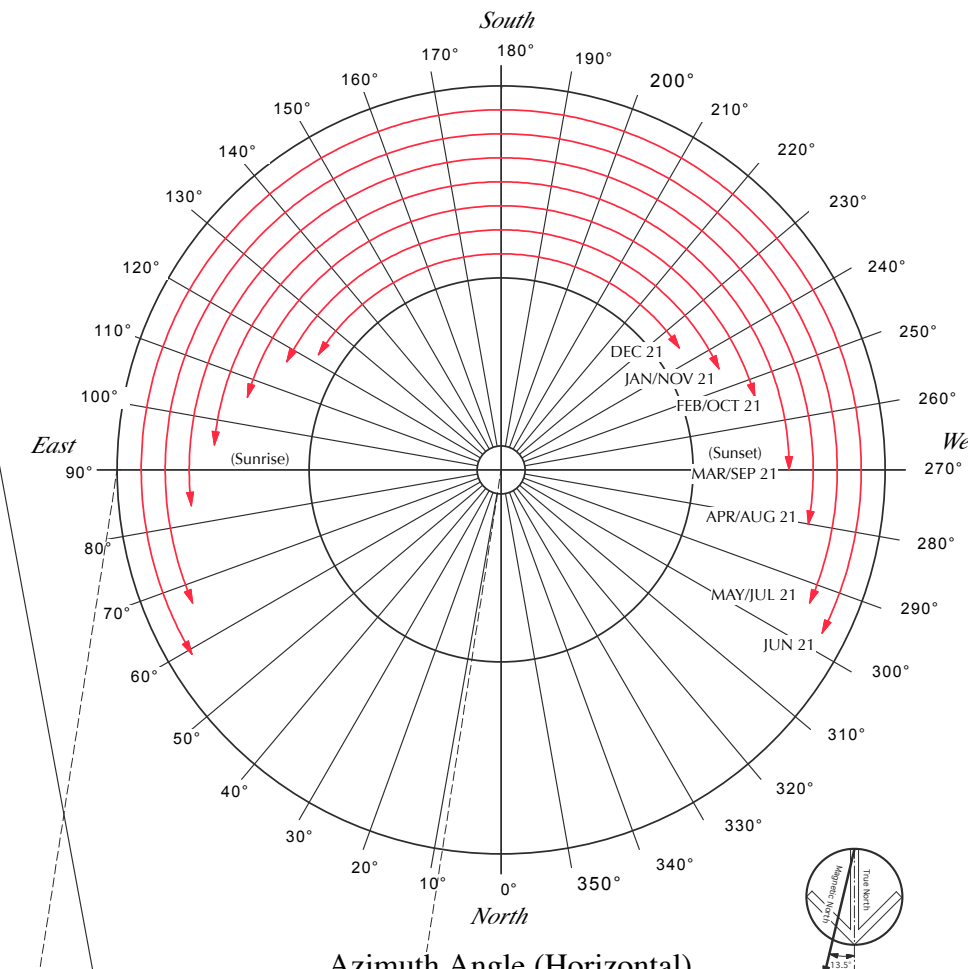
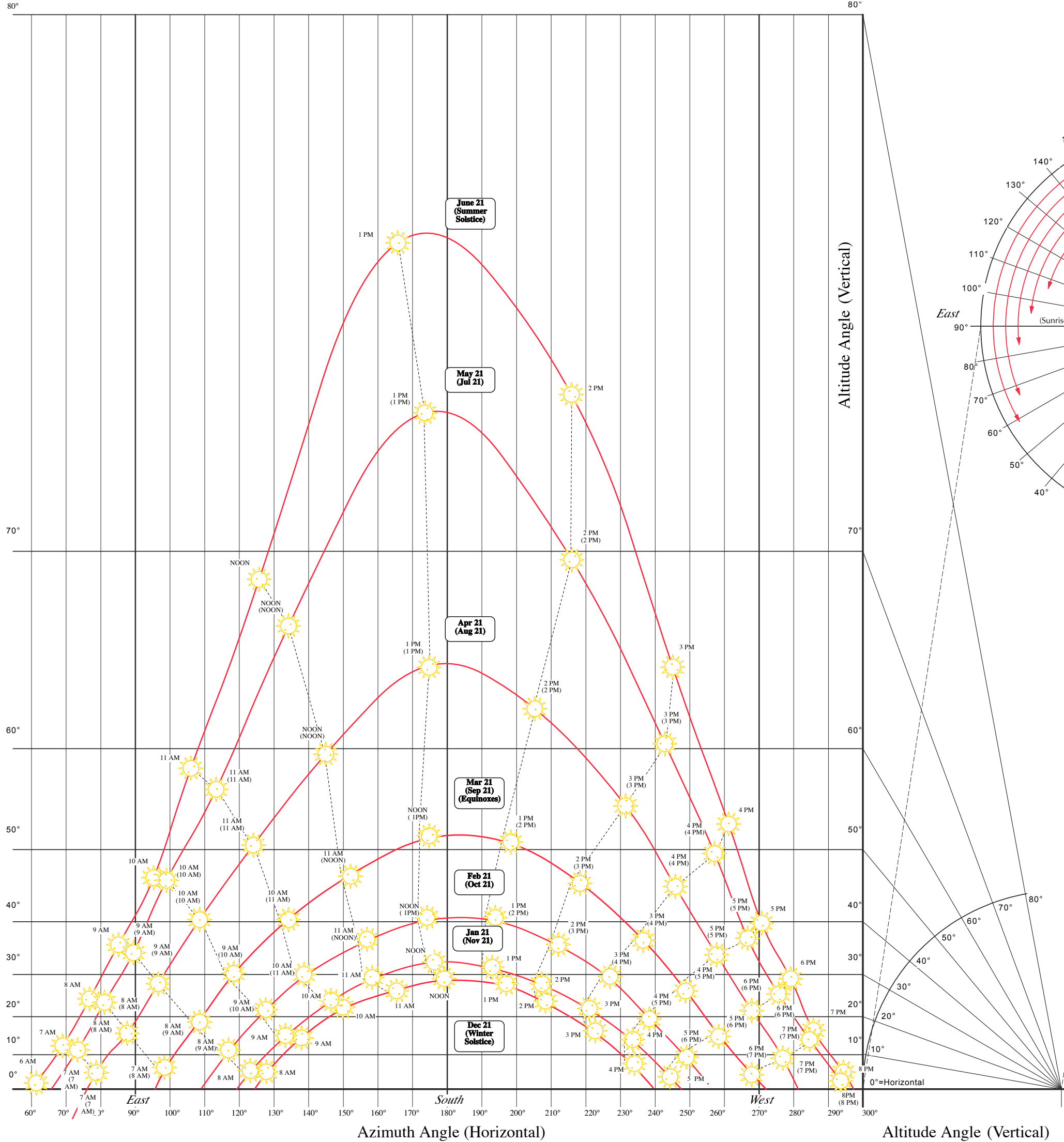
FEBRUARY 21 (Standard Time)			OCTOBER 21 (Savings Time)		
TIME	AZIMUTH ANGLE	ALTITUDE ANGLE	TIME	AZIMUTH ANGLE	ALTITUDE ANGLE
8:00 AM	113° 38'	11° 7'	8:00 AM	108° 59'	5° 2'
9:00 AM	124° 30'	21° 31'	9:00 AM	119° 4'	15° 55'
10:00 AM	137° 29'	30° 31'	10:00 AM	130° 49'	25° 40'
11:00 AM	153° 15'	37° 18'	11:00 AM	145° 1'	33° 40'
NOON	171° 40'	40° 54'	NOON	162° 3'	38° 59'
1:00 PM	191° 7'	40° 37'	1:00 PM	181° 5'	40° 44'
2:00 PM	209° 13'	36° 29'	2:00 PM	199° 58'	38° 33'
3:00 PM	224° 34'	29° 19'	3:00 PM	216° 41'	32° 53'
4:00 PM	237° 11'	20° 5'	4:00 PM	230° 36'	24° 40'
5:00 PM	247° 49'	9° 32'	5:00 PM	242° 8'	14° 45'
			6:00 PM	252° 3'	3° 47'

MARCH 21 (Standard Time)			SEPTEMBER 21 (Savings Time)		
Vernal Equinox			Autumnal Equinox		
TIME	AZIMUTH ANGLE	ALTITUDE ANGLE	TIME	AZIMUTH ANGLE	ALTITUDE ANGLE
7:00 AM	96° 34'	7° 49'	8:00 AM	98° 38'	10° 44'
8:00 AM	106° 17'	19° 28'	9:00 AM	108° 37'	22° 17'
9:00 AM	117° 32'	30° 30'	10:00 AM	120° 23'	33° 7'
10:00 AM	131° 30'	40° 19'	11:00 AM	135° 14'	42° 32'
11:00 AM	149° 37'	47° 54'	NOON	154° 30'	49° 25'
NOON	172° 10'	51° 50'	1:00 PM	177° 56'	52° 17'
1:00 PM	196° 17'	50° 57'	2:00 PM	201° 47'	50° 13'
2:00 PM	217° 23'	45° 32'	3:00 PM	221° 52'	43° 55'
3:00 PM	233° 53'	37° 1'	4:00 PM	237° 22'	34° 49'
4:00 PM	246° 43'	26° 40'	5:00 PM	249° 33'	24° 11'
5:00 PM	257° 18'	15° 21'	6:00 PM	259° 46'	12° 43'
6:00 PM	266° 44'	3° 35'	7:00 PM	269° 4'	0° 53'

APRIL 21 (Savings Time)			AUGUST 21 (Savings Time)		
TIME	AZIMUTH ANGLE	ALTITUDE ANGLE	TIME	AZIMUTH ANGLE	ALTITUDE ANGLE
7:00 AM	79° 11'	4° 56'	7:00 AM	78° 23'	4° 11'
8:00 AM	88° 6'	16° 46'	8:00 AM	87° 17'	15° 59'
9:00 AM	97° 31'	28° 38'	9:00 AM	96° 37'	27° 52'
10:00 AM	108° 31'	40° 13'	10:00 AM	107° 26'	39° 29'
11:00 AM	122° 58'	50° 56'	11:00 AM	121° 32'	50° 20'
NOON	144° 0'	59° 38'	NOON	141° 58'	59° 15'
1:00 PM	174° 4'	63° 58'	1:00 PM	171° 34'	64° 2'
2:00 PM	206° 19'	61° 49'	2:00 PM	204° 17'	62° 22'
3:00 PM	230° 32'	54° 21'	3:00 PM	229° 15'	55° 10'
4:00 PM	246° 53'	44° 10'	4:00 PM	246° 4'	45° 5'
5:00 PM	258° 51'	32° 47'	5:00 PM	258° 14'	33° 46'
6:00 PM	268° 40'	20° 58'	6:00 PM	268° 8'	21° 57'
7:00 PM	277° 40'	9° 6'	7:00 PM	277° 9'	10° 5'

MAY 21 (Savings Time)			JULY 21 (Savings Time)		
TIME	AZIMUTH ANGLE	ALTITUDE ANGLE	TIME	AZIMUTH ANGLE	ALTITUDE ANGLE
7:00 AM	72° 37'	10° 31'	7:00 AM	70° 58'	8° 51'
8:00 AM	80° 59'	22° 6'	8:00 AM	79° 20'	20° 20'
9:00 AM	89° 37'	33° 56'	9:00 AM	87° 50'	32° 10'
10:00 AM	99° 35'	45° 47'	10:00 AM	97° 26'	44° 2'
11:00 AM	112° 57'	57° 13'	11:00 AM	109° 57'	55° 35'
NOON	134° 44'	67° 10'	NOON	129° 44'	65° 57'
1:00 PM	173° 29'	72° 32'	1:00 PM	165° 44'	72° 29'
2:00 PM	216° 29'	69° 19'	2:00 PM	210° 56'	70° 40'
3:00 PM	242° 11'	60° 12'	3:00 PM	239° 26'	62° 6'
4:00 PM	257° 11'	49° 2'	4:00 PM	255° 32'	51° 6'
5:00 PM	267° 49'	37° 14'	5:00 PM	266° 34'	39° 21'
6:00 PM	276° 41'	25° 22'	6:00 PM	275° 35'	27° 28'
7:00 PM	285° 4'	13° 41'	7:00 PM	283° 57'	15° 45'
8:00 PM	293° 40'	2° 28'	8:00 PM	292° 27'	4° 27'

JUNE 21 (Savings Time)			DECEMBER 21 (Standard Time)		
Summer Solstice			Winter Solstice		
TIME	AZIMUTH ANGLE	ALTITUDE ANGLE	TIME	AZIMUTH ANGLE	ALTITUDE ANGLE
6:00 AM	60° 33'	0° 45'	8:00 AM	125° 11'	5° 24'
7:00 AM	69° 10'	11° 31'	9:00 AM	135° 43'	14° 28'
8:00 AM	77° 16'	22° 54'	10:00 AM	147° 57'	21° 49'
9:00 AM	85° 27'	34° 39'	11:00 AM	162° 1'	26° 52'
10:00 AM	94° 37'	46° 32'	NOON	177° 24'	29° 1'
11:00 AM	106° 38'	58° 14'	1:00 PM	193° 1'	27° 55'
NOON	126° 34'	68° 55'	2:00 PM	207° 35'	23° 47'
1:00 PM	167° 28'	75° 40'	3:00 PM	220° 27'	17° 7'
2:00 PM	218° 41'	72° 46'	4:00 PM	231° 30'	8° 33'
3:00 PM	245° 58'	63° 14'			
4:00 PM	260° 32'	51° 50'			
5:00 PM	270° 38'	39° 59'			
6:00 PM	279° 7'	28° 8'			
7:00 PM	287° 10'	16° 33'			
8:00 PM	295° 29'	5° 28'			



TMA
design

Terry Ackerman

- 3-D CAD
- GRAPHICS,
- ANIMATIONS, &
- DRAFTING

(970) 247-5570

Terry@TMAdesign.com
TMAdesign.com
114 County Road 246
Durango, Colorado 81301

Since 1989

Sun Path Diagram

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