

Steps in using heavens-above web site for selection of Sentinel-1 passes:

1. Select your location. From <http://www.heavens-above.com/> under the Configuration menu, select 'Change your observation location'. Enter Devarakaggalahalli in the 'Enter place to search for' and once found, press the Update button at the bottom of the page. Note that the time is local time (not UT).
2. You can save the web address in your favourites list for future reference.
3. Select Sentinel-1A from the Satellite Database link (under the Satellites menu). In the satellite number range input 39634 twice:



User: anonymous [Login](#)
 Location: Devarakaggalahalli
 (12.6528°N, 77.4501°E)
 Time: 13:31:22
 (UTC+05:30)
 Language: English

Satellite database

[Home](#)

Name

Year of launch

Satellite number range -

Include objects in Earth orbit only

Sat. ID	Name	Orbital status	Designation	Name in Spacetrack catalog	Orbit			
1	Sputnik 1 rocket	decayed	1957-001-A	SL-1 R/B				
2	Sputnik 1	decayed	1957-001-B	SPUTNIK 1				
3	Sputnik 2	decayed	1957-002-A	SPUTNIK 2				
4	Explorer 1	decayed	1958-001-A	EXPLORER 1				
5	Vanguard 1	in Earth orbit	1958-002-B	VANGUARD 1	653 x 3831 km; 34.2°	Visible Passes	All Passes	Close encounters
6	Explorer 3	decayed	1958-003-A	EXPLORER 3				
7	SL-1 Rocket	decayed	1958-004-A	SL-1 R/B				
8	Sputnik 3	decayed	1958-004-B	SPUTNIK 3				
9	Explorer 4	decayed	1958-005-A	EXPLORER 4				
10	SCORE	decayed	1958-006-A	SCORE				
11	Vanguard 2	in Earth orbit	1959-001-A	VANGUARD 2	554 x 2940 km; 32.9°	Visible Passes	All Passes	Close encounters
12	Vanguard 2 Rocket	in Earth orbit	1959-001-B	VANGUARD R/B	554 x 3328 km; 32.9°	Visible Passes	All Passes	Close encounters
13	Discoverer 1	decayed	1959-002-A	DISCOVERER 1				

and press Update to give the following:



User: anonymous [Login](#)
 Location: Devarakaggalahalli
 (12.6528°N, 77.4501°E)
 Time: 13:32:24
 (UTC+05:30)
 Language: English

Satellite database

[Home](#)

Name

Year of launch

Satellite number range -

Include objects in Earth orbit only

Sat. ID	Name	Orbital status	Designation	Name in Spacetrack catalog	Orbit			
39634	SENTINEL 1A	in Earth orbit	2014-016-A	SENTINEL 1A	695 x 697 km; 98.2°	Visible Passes	All Passes	Close encounters

4. Now select 'All Passes' to show when Sentinel-1A is above your horizon:



SENTINEL 1A - All Passes

Search period start: 07 July 2017 00:00

Search period end: 17 July 2017 00:00



Orbit: 695 x 697 km, 98.2° (Epoch: 06 July)

Passes to include: visible only all

Click on the date to see the ground track during the pass.

Date	Brightness (mag)	Start			Highest point			End			Pass type
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.	
07 Jul	-	06:21:38	10°	NNE	06:26:21	85°	ESE	06:31:05	10°	S	daylight
07 Jul	-	17:13:15	10°	ESE	17:16:08	16°	ENE	17:18:59	10°	NE	daylight
07 Jul	-	18:49:29	10°	SSW	18:53:25	27°	W	18:57:23	10°	NW	daylight
08 Jul	-	05:26:45	10°	ENE	05:29:28	15°	E	05:32:12	10°	SE	visible
08 Jul	-	07:02:53	10°	NNW	07:06:53	28°	WNW	07:10:52	10°	SW	daylight
08 Jul	-	17:52:00	10°	SSE	17:56:35	53°	ENE	18:01:10	10°	N	daylight
09 Jul	-	06:05:33	10°	NNE	06:10:07	51°	ESE	06:14:41	10°	S	daylight
09 Jul	-	18:32:42	10°	S	18:37:10	43°	W	18:41:39	10°	NNW	daylight
10 Jul	-	06:46:12	10°	N	06:50:41	45°	WNW	06:55:10	10°	SSW	daylight
10 Jul	-	17:36:12	10°	SE	17:40:23	32°	ENE	17:44:34	10°	NNE	daylight
10 Jul	-	19:15:42	10°	SW	19:17:50	13°	W	19:19:58	10°	WNW	visible
11 Jul	-	05:49:42	10°	NE	05:53:52	31°	E	05:58:01	10°	SSE	daylight
11 Jul	-	07:28:46	10°	NW	07:31:08	14°	WNW	07:33:30	10°	WSW	daylight
11 Jul	-	18:16:14	10°	S	18:20:55	73°	WSW	18:25:37	10°	NNW	daylight
12 Jul	-	06:29:46	10°	N	06:34:28	75°	WNW	06:39:10	10°	SSW	daylight
12 Jul	-	17:20:45	10°	ESE	17:24:13	20°	ENE	17:27:39	10°	NNE	daylight
12 Jul	-	18:58:01	10°	SSW	19:01:34	21°	W	19:05:06	10°	NW	daylight

I have highlighted the pass for 9th July at 06:10 local time (00:40 UT).

5. Obtain more information about the 9th July pass by clicking on the date in the left column:

SENTINEL 1A - Pass Details

[Home](#) | [Ground track](#) | [Info](#) | [Orbit](#) | [Close encounters](#)

Click on the chart to zoom in on that part of the sky

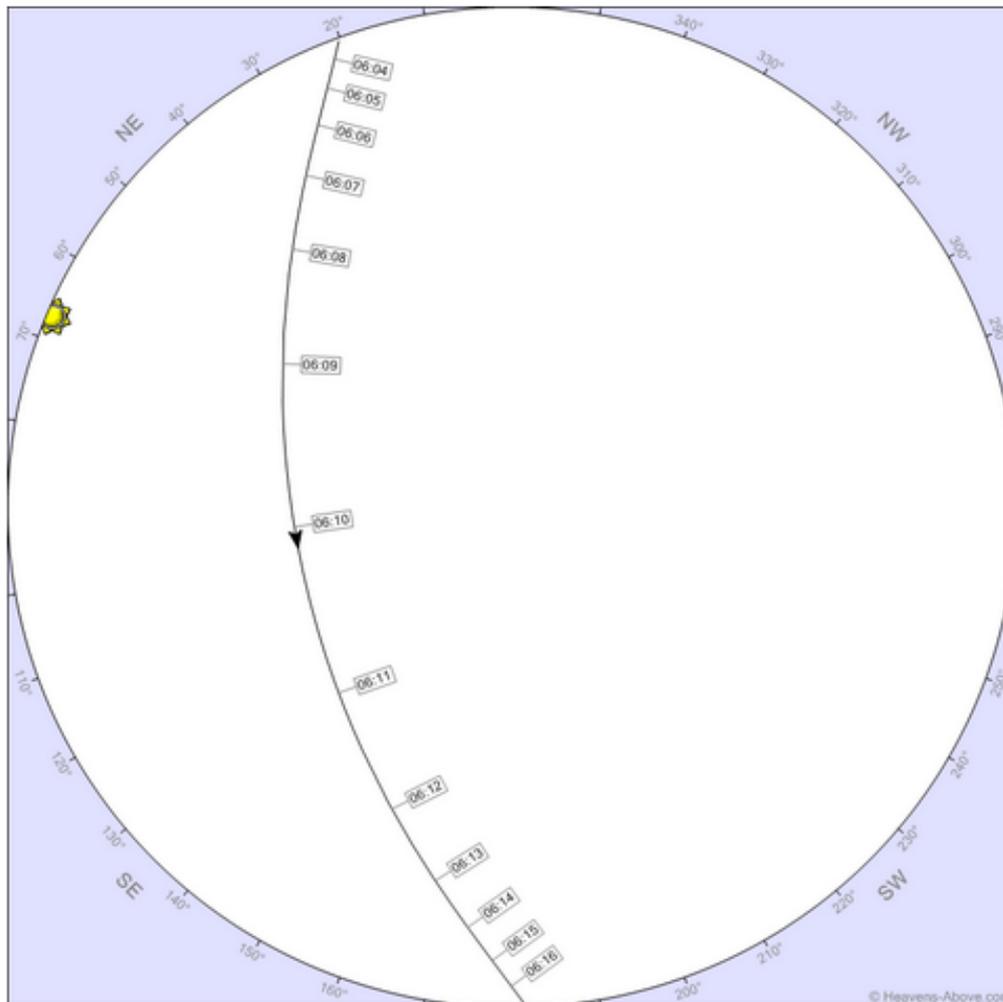


Chart size (500 - 1600)

Date: 09 July 2017

Orbit: 695 x 697 km, 98.2° (Epoch: 06 July)

Event	Time	Altitude	Azimuth	Distance (km)	Brightness	Sun altitude
Rises	06:03:15	0°	20° (NNE)	3,062	9.6	-0.2°
Reaches altitude 10°	06:05:33	10°	25° (NNE)	2,145	9.0	0.3°
Maximum altitude	06:10:07	51°	101° (E)	869	6.7	1.3°
Drops below altitude 10°	06:14:41	10°	177° (S)	2,146	8.0	2.3°
Sets	06:16:58	0°	182° (S)	3,063	8.7	2.9°

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At the bottom of this page is the altitude and azimuth information:

Date: 09 July 2017

Orbit: 695 x 697 km, 98.2° (Epoch: 06 July)

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I have highlighted the altitude and azimuth angles to orientate your corner reflector.