



Goddard
GLOSSARY

he•li•o•sphere

1
00:00:03,236 --> 00:00:04,004
Heliosphere.

2
00:00:04,004 --> 00:00:05,472
If you were to break down the word

3
00:00:05,472 --> 00:00:06,906
you'd have helio meaning Sun

4
00:00:06,906 --> 00:00:09,309
and sphere meaning, well spherical.

5
00:00:09,309 --> 00:00:11,144
The heliosphere is basically

6
00:00:11,144 --> 00:00:12,746
a big bubble created by the Sun

7
00:00:12,746 --> 00:00:14,948
that surrounds the planets in our solar system.

8
00:00:14,948 --> 00:00:16,783
Think of the Sun as a huge fan,

9
00:00:16,783 --> 00:00:18,184
except instead of normal wind,

10
00:00:18,184 --> 00:00:20,353
it's blowing a mixture of charged particles

11
00:00:20,353 --> 00:00:22,756
away from the Sun, known as solar wind.

12
00:00:22,756 --> 00:00:27,560
And these can reach speeds of 300km/s to up to 700 km/s.

13
00:00:28,194 --> 00:00:29,763

The heliosphere is all the region

14

00:00:29,763 --> 00:00:30,797

affected by this solar wind.

15

00:00:31,898 --> 00:00:33,666

The outer boundary of the heliosphere

16

00:00:33,666 --> 00:00:35,301

is where the solar wind merges with

17

00:00:35,301 --> 00:00:36,636

the particles of deep space.

18

00:00:37,270 --> 00:00:39,205

The heliosphere is our neighborhood in space,

19

00:00:39,205 --> 00:00:40,240

and it's also the habitat

20

00:00:40,240 --> 00:00:41,875

in which our solar system evolved,

21

00:00:41,875 --> 00:00:43,643

so studying the heliosphere

22

00:00:43,643 --> 00:00:44,744

allows us to understand