



1
00:00:22,390 --> 00:00:19,590
swift is an extremely successful nasa

2
00:00:24,710 --> 00:00:22,400
satellite that's operating right now

3
00:00:27,189 --> 00:00:24,720
it's named after a bird which chases

4
00:00:31,509 --> 00:00:27,199
insects well the swift satellite doesn't

5
00:00:33,510 --> 00:00:31,519
chase insects it chases gamma-ray bursts

6
00:00:35,830 --> 00:00:33,520
the swift instrument

7
00:00:38,790 --> 00:00:35,840
sees bursts in a different energy range

8
00:00:40,389 --> 00:00:38,800
than blast will look at it and the goal

9
00:00:43,830 --> 00:00:40,399
of swift is to

10
00:00:45,750 --> 00:00:43,840
rapidly repoint to pick up optical and

11
00:00:47,830 --> 00:00:45,760
x-ray emission

12
00:00:50,950 --> 00:00:47,840
glass is primarily

13
00:00:53,350 --> 00:00:50,960

devoted to seeing in a new energy range

14

00:00:55,189 --> 00:00:53,360

it's designed to pick up at the upper

15

00:00:57,670 --> 00:00:55,199

end of the swift energy range and carry

16

00:01:00,069 --> 00:00:57,680

it on up to much higher energies and it

17

00:01:02,389 --> 00:01:00,079

allows you to just see you know stranger

18

00:01:05,910 --> 00:01:02,399

and more exotic things the further up in

19

00:01:10,390 --> 00:01:08,469

glast and swift are very different swift

20

00:01:12,070 --> 00:01:10,400

is like a nimble small satellite that

21

00:01:14,310 --> 00:01:12,080

points here and there but it isn't

22

00:01:16,630 --> 00:01:14,320

surveying the whole sky it's pointing in

23

00:01:19,270 --> 00:01:16,640

its particular objects glass looks in

24

00:01:21,910 --> 00:01:19,280

the high-energy gamma-ray sky looks over

25

00:01:24,230 --> 00:01:21,920

the whole sky at all times

26
00:01:26,950 --> 00:01:24,240
one of the wonderful things about glass

27
00:01:28,630 --> 00:01:26,960
is that we see the whole sky effectively

28
00:01:31,670 --> 00:01:28,640
all the time you need to follow the

29
00:01:34,550 --> 00:01:31,680
object all the time in order to see its

30
00:01:36,390 --> 00:01:34,560
entire range of behavior

31
00:01:38,230 --> 00:01:36,400
we hope when glass and swift are up

32
00:01:40,710 --> 00:01:38,240
together that we can use them working

33
00:01:43,910 --> 00:01:40,720
simultaneously so when we see something

34
00:01:45,270 --> 00:01:43,920
interesting with glass we can ask swift

35
00:01:47,429 --> 00:01:45,280
to go look at it with their other

36
00:01:49,270 --> 00:01:47,439
telescopes and gain additional

37
00:01:51,749 --> 00:01:49,280
information about it

38
00:01:53,109 --> 00:01:51,759

we can use them working together to

39

00:01:55,990 --> 00:01:53,119

really do the gamma-ray science and