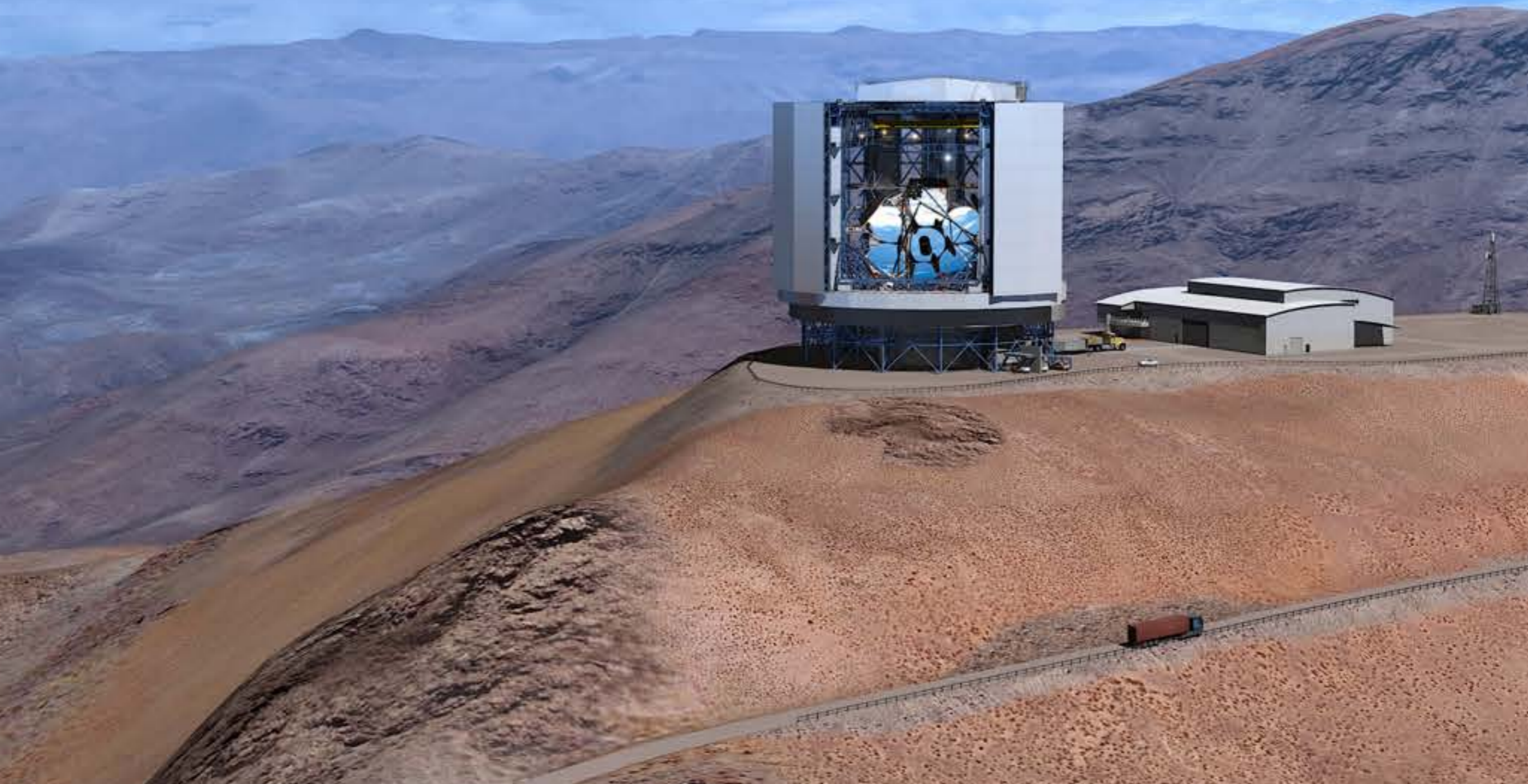


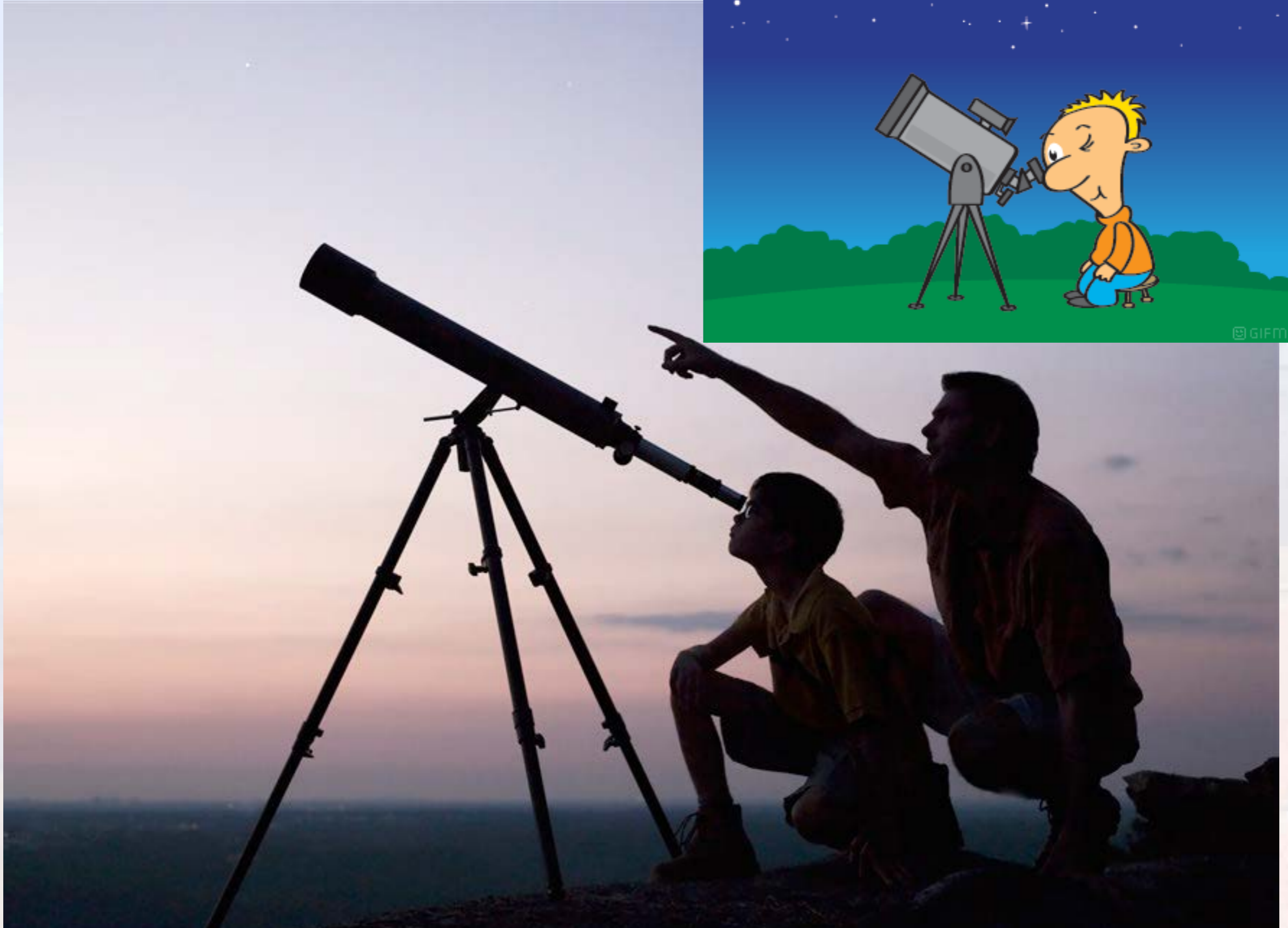
GIANT telescopes



Why to use telescopes?



Why to use telescopes?



Why to use telescopes?



Why to use telescopes?



Why to use telescopes?



Why to use telescopes?









A brief history of telescopes - and discoveries



A brief history of telescopes - and discoveries



A brief history of telescopes - and discoveries



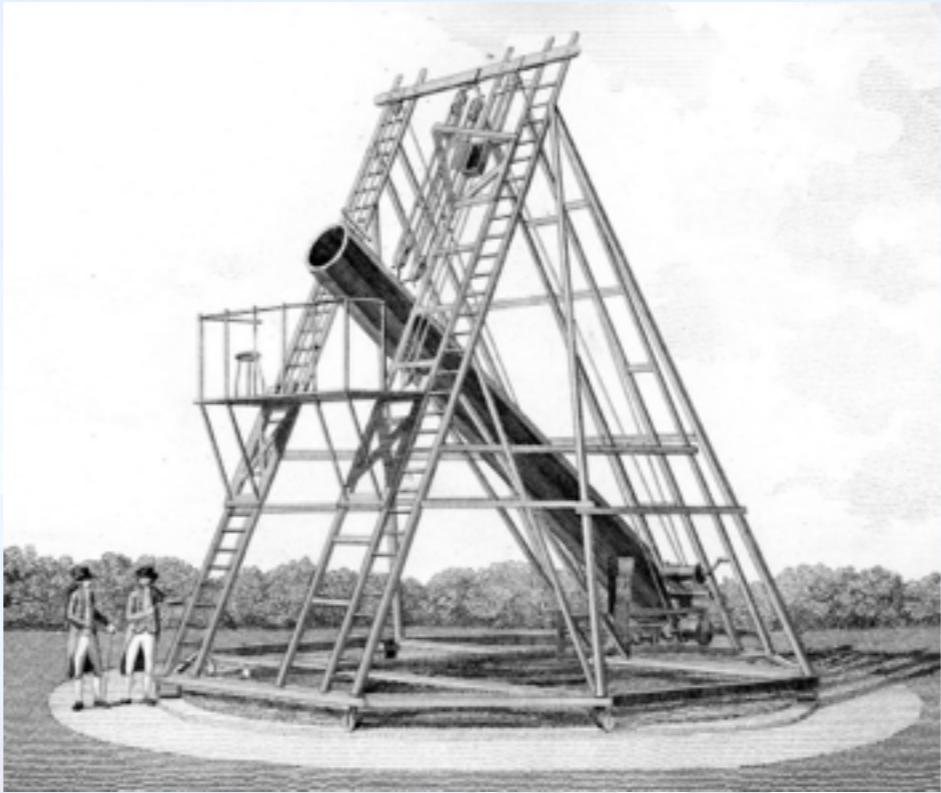
Observations Joviales
1610

20. Febr.	mar H. 12	○ * *
<hr/>		
30. marc		* * ○ *
<hr/>		
2. Febr.		○ * * *
<hr/>		
3. marc		○ * *

1610 - 2"



A brief history of telescopes - and discoveries



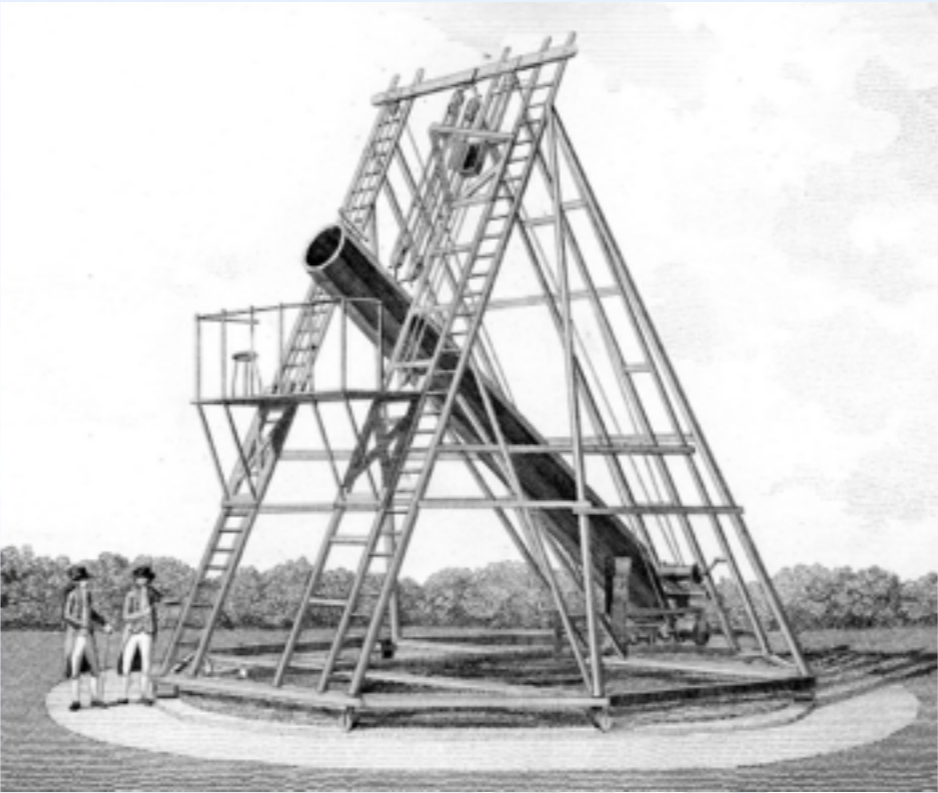
Observations Joviales
1610

20. Febr.	mar. H. 12	○ * *
30. marc		* * ○ *
2. Febr.		○ * * *
3. marc		○ * *

1610 - 2"



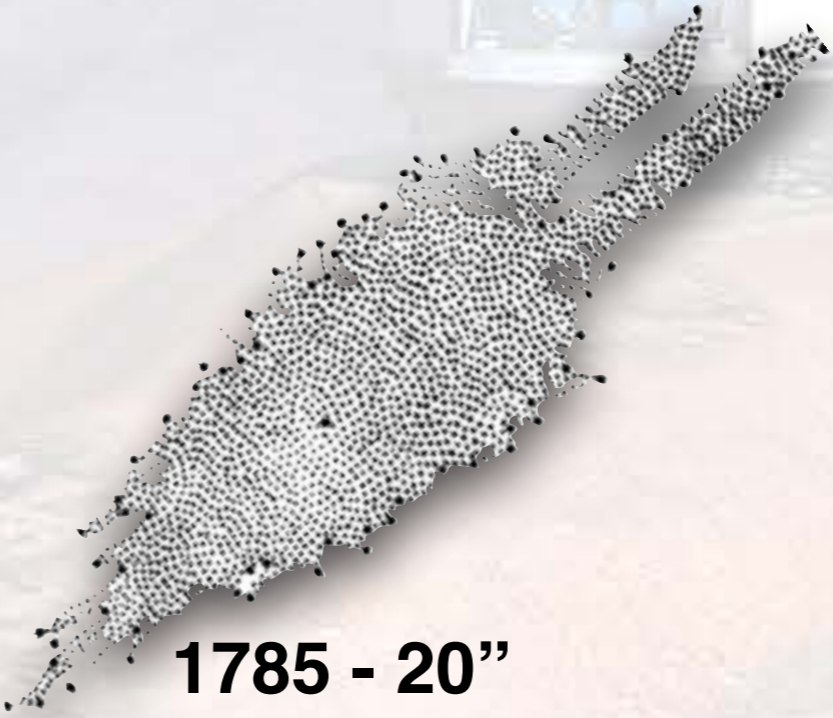
A brief history of telescopes - and discoveries



Observations Joviales
1610

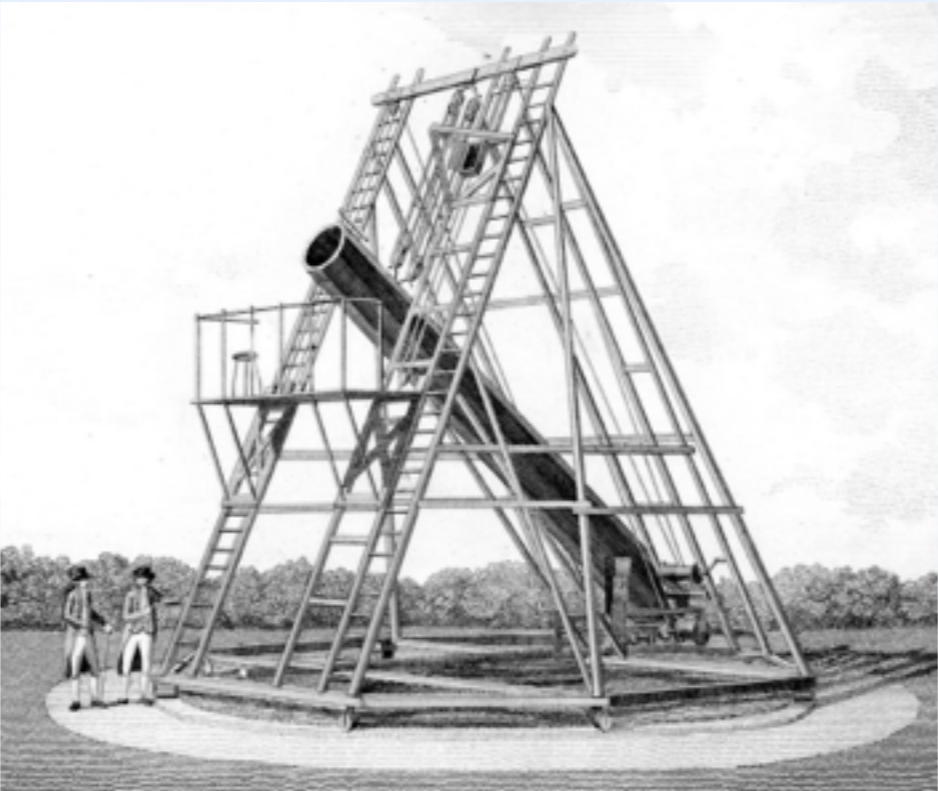
20. Febr.	mar. H. 12	○ * *
30. marc		* * ○ *
2. Febr.		○ * * *
3. marc		○ * *

1610 - 2"



1785 - 20"

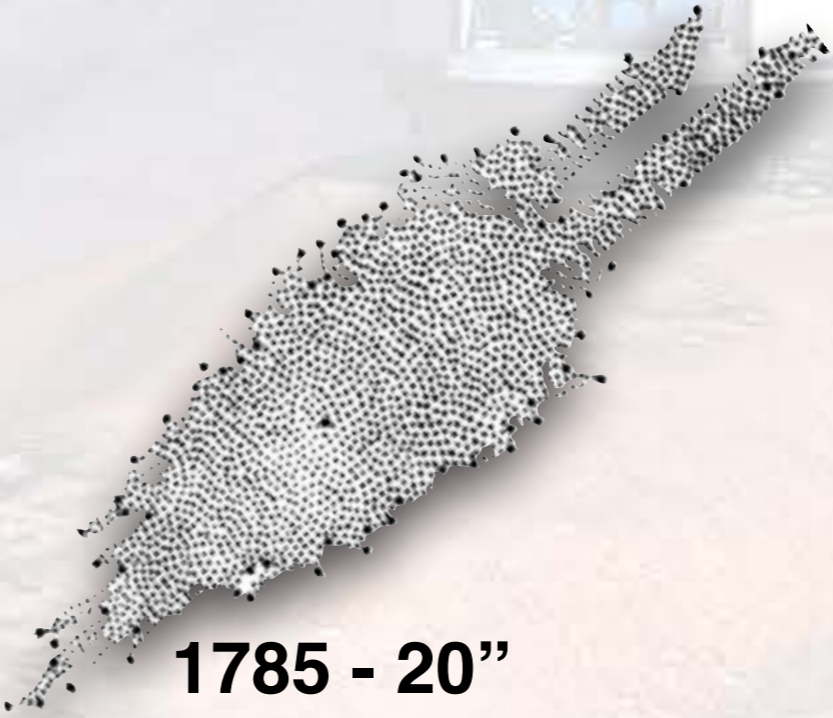
A brief history of telescopes - and discoveries



Observations Joviales
1610

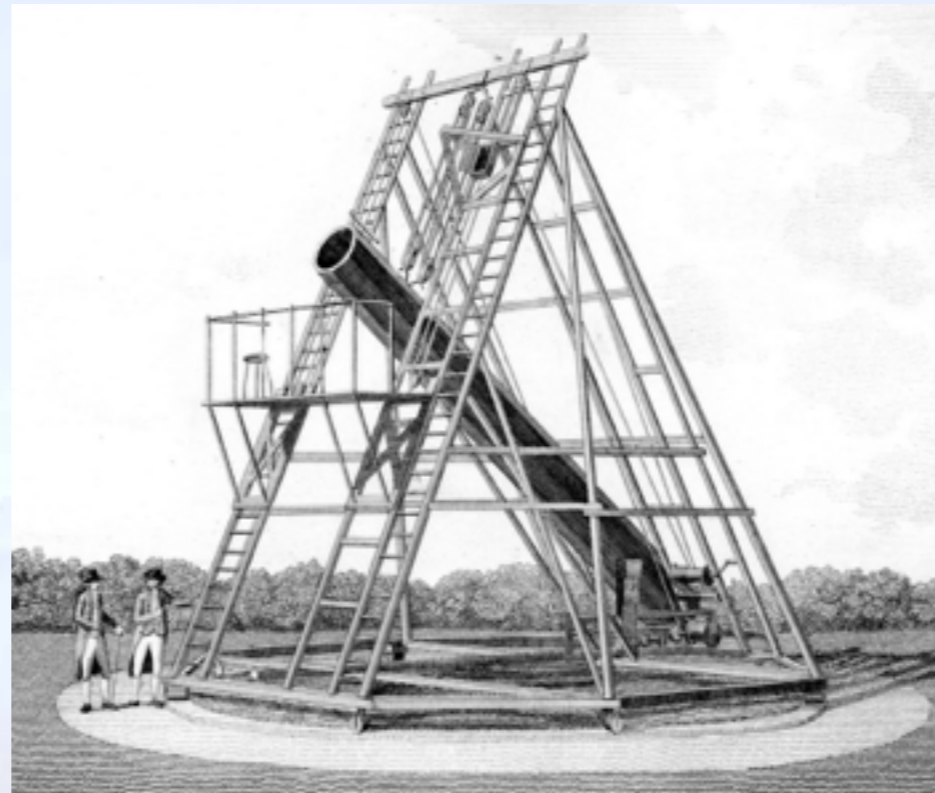
20. Febr.	mar H. 12	○ * *
30. Febr.		* * ○ *
2. Febr.		○ * * *
3. Febr.		○ * *

1610 - 2"



1785 - 20"

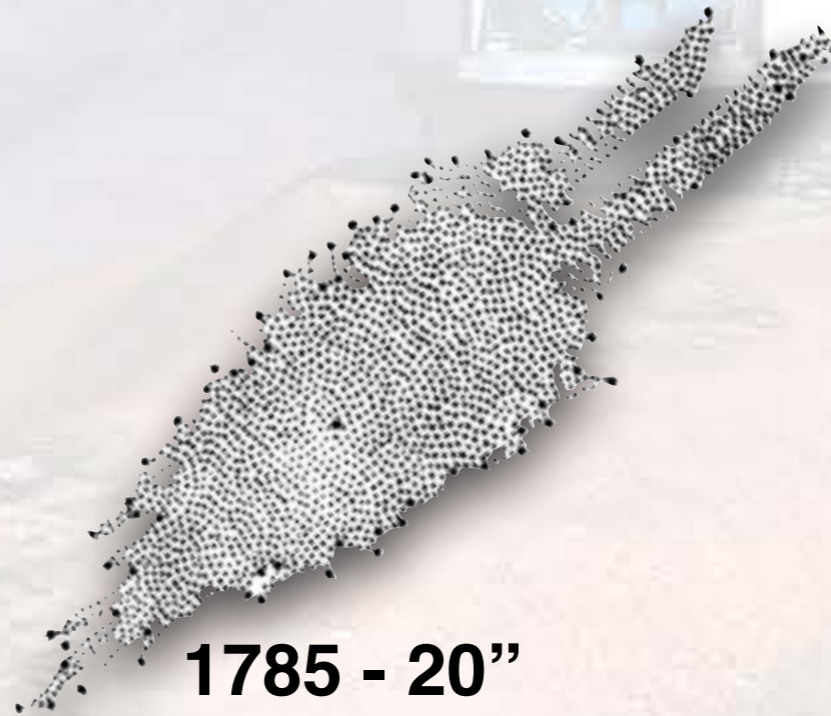
A brief history of telescopes - and discoveries



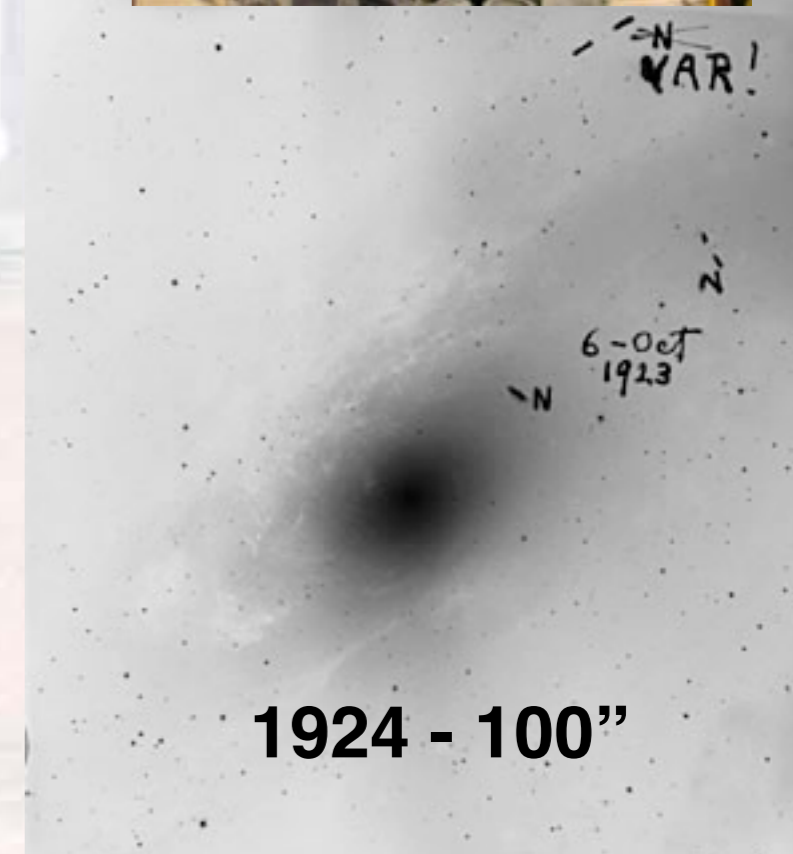
Observations Jovianae
1610

20. Febr.	mar H. 12	○ * *
30. marc		* * ○ *
2. Apr.		○ * * *
3. marc		○ * *

1610 - 2"

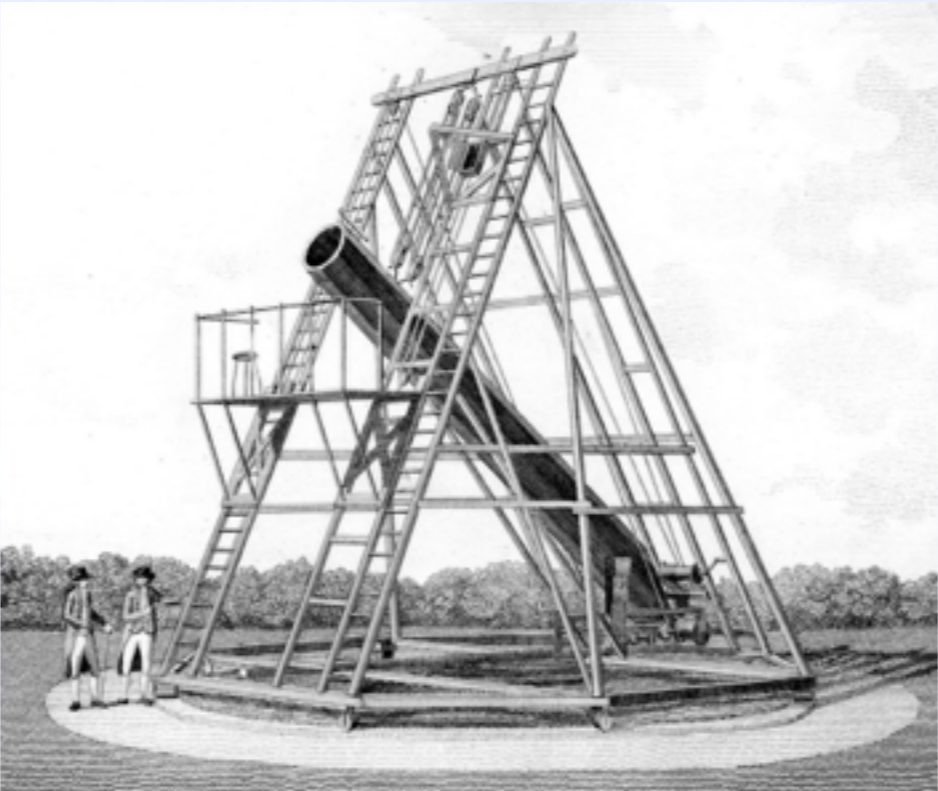


1785 - 20"



1924 - 100"

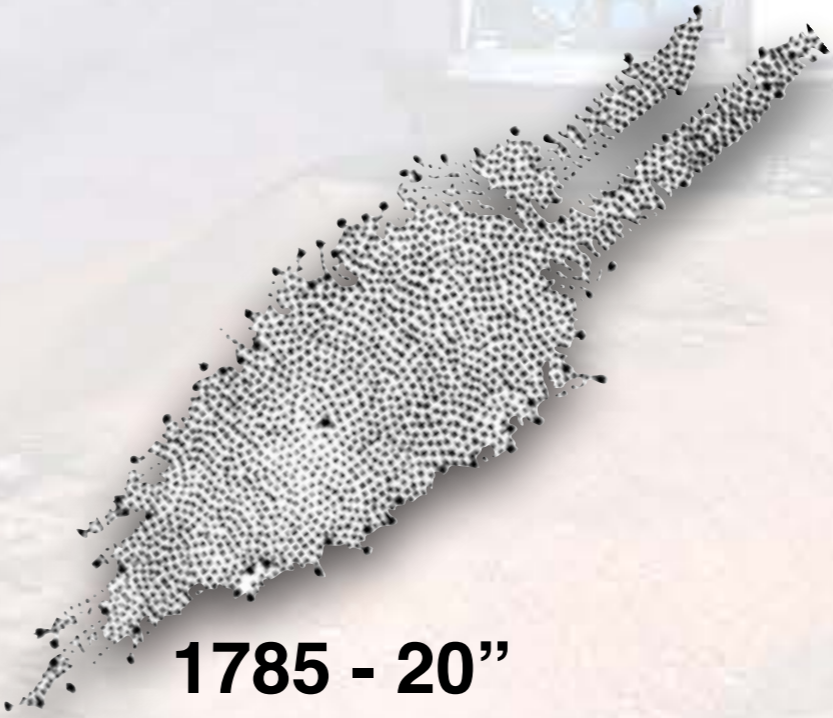
A brief history of telescopes - and discoveries



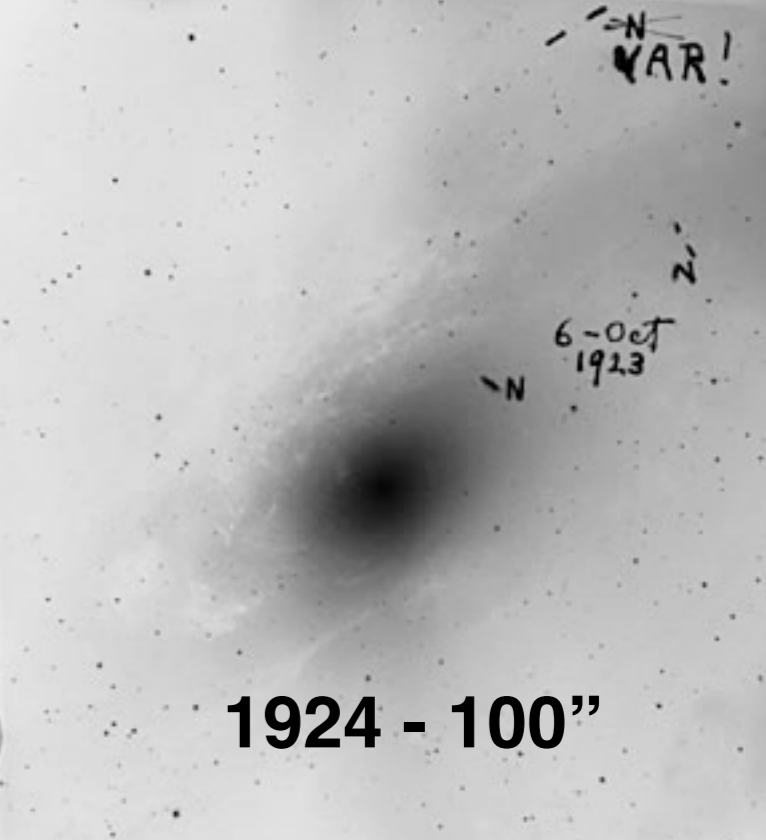
Observations Joviales
1610

20. Febr.	mar H. 12	○ * *
30. marc		* * ○ *
2. Febr.		○ * * *
3. marc		○ * *

1610 - 2"



1785 - 20"



1924 - 100"

every time a larger telescope was built, it brought fundamental new discoveries

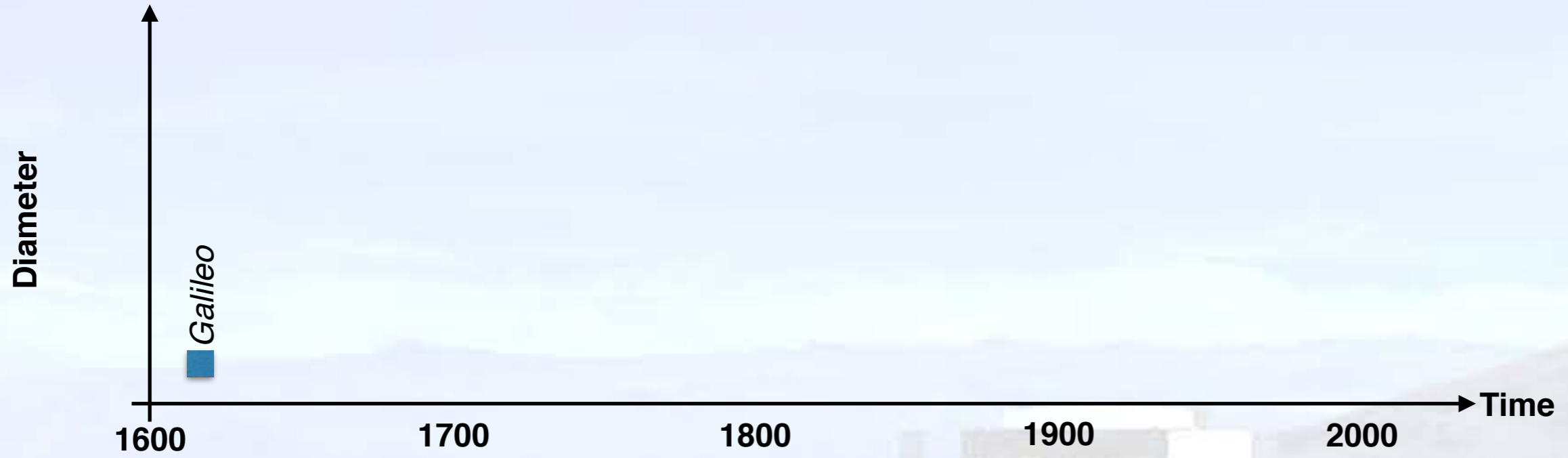
The evolution of the telescope



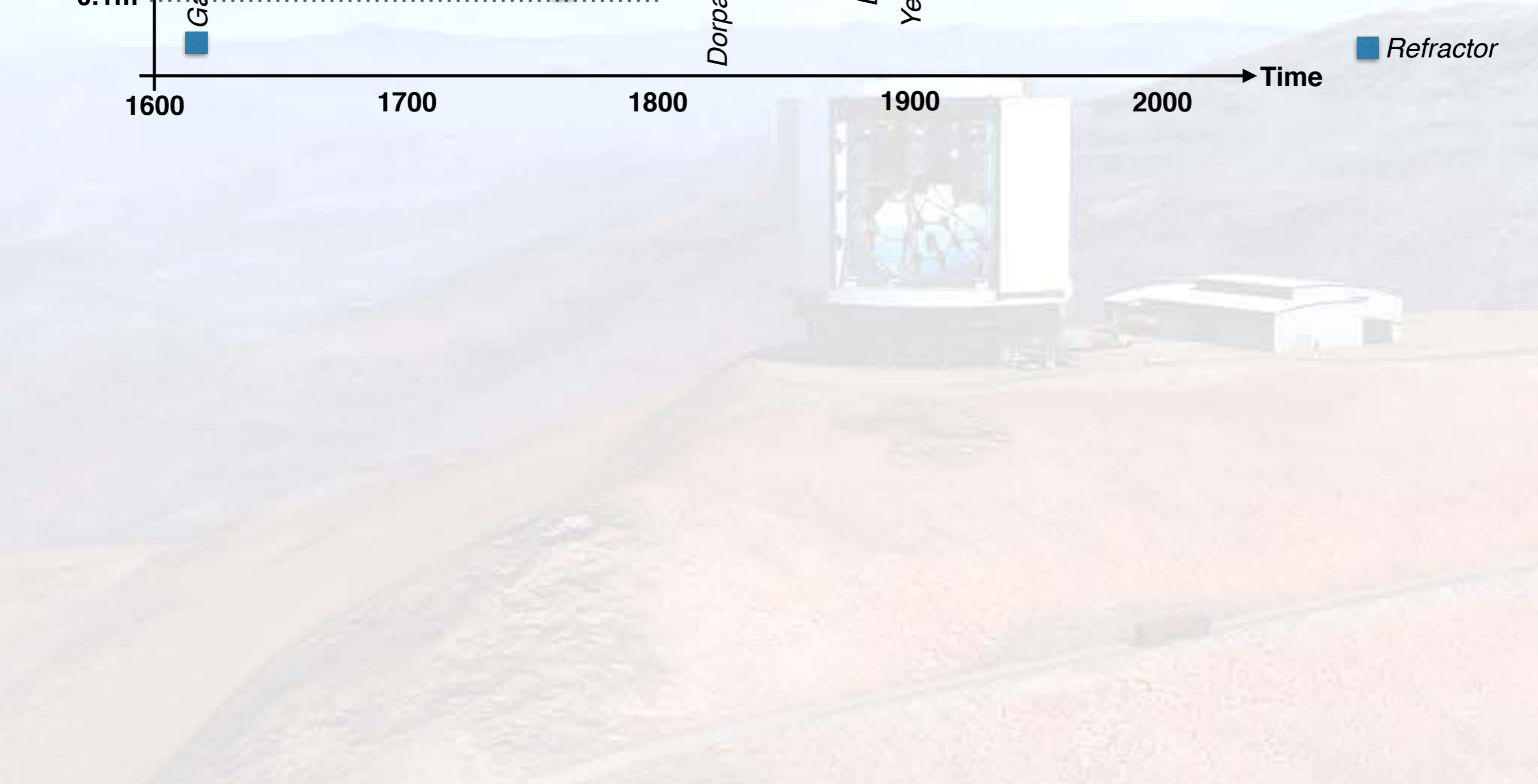
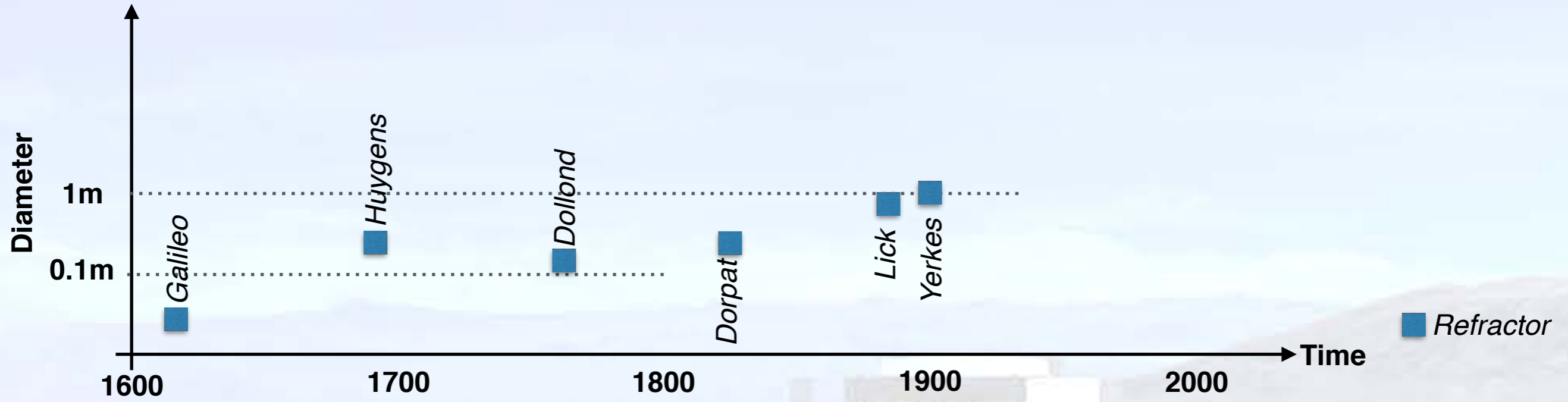
The evolution of the telescope



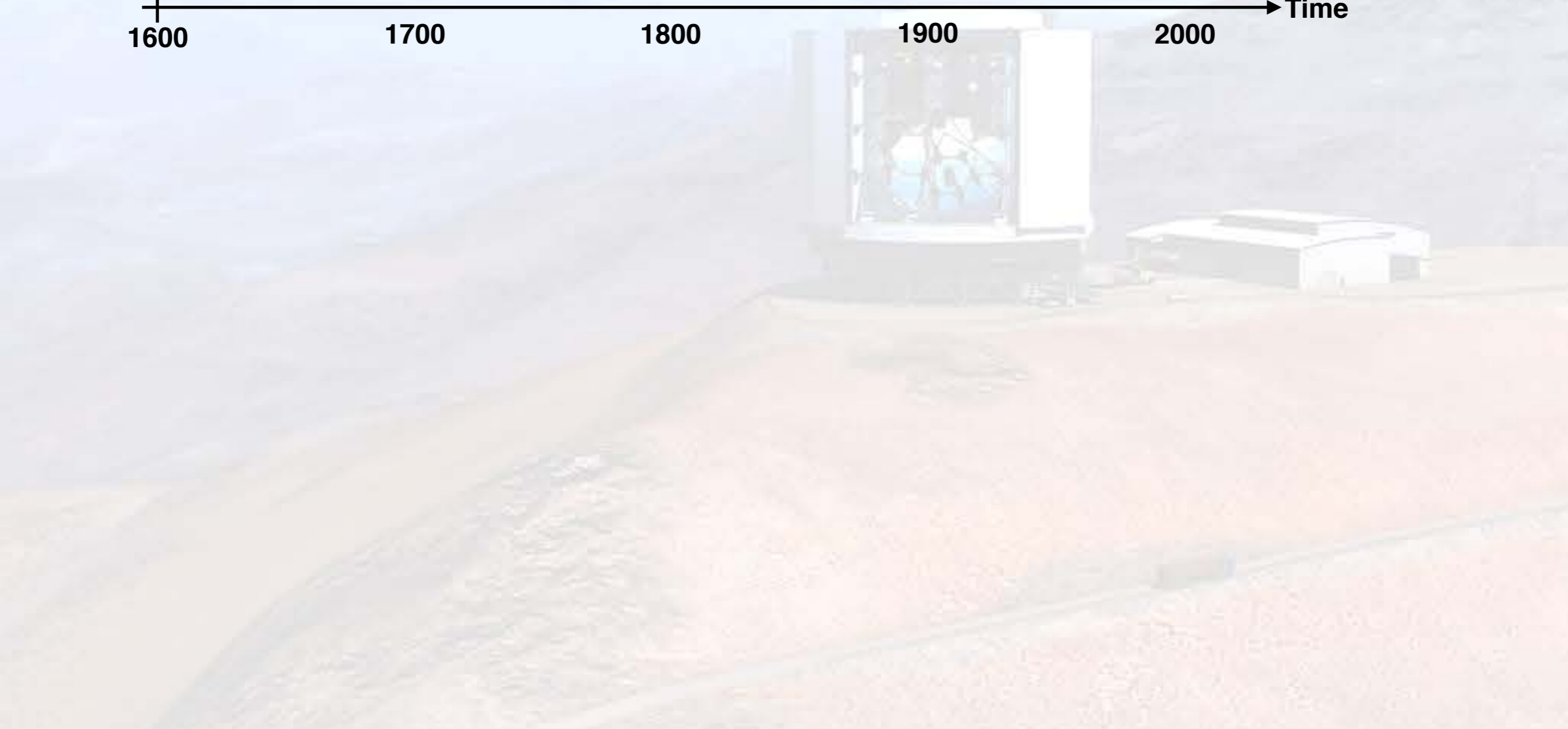
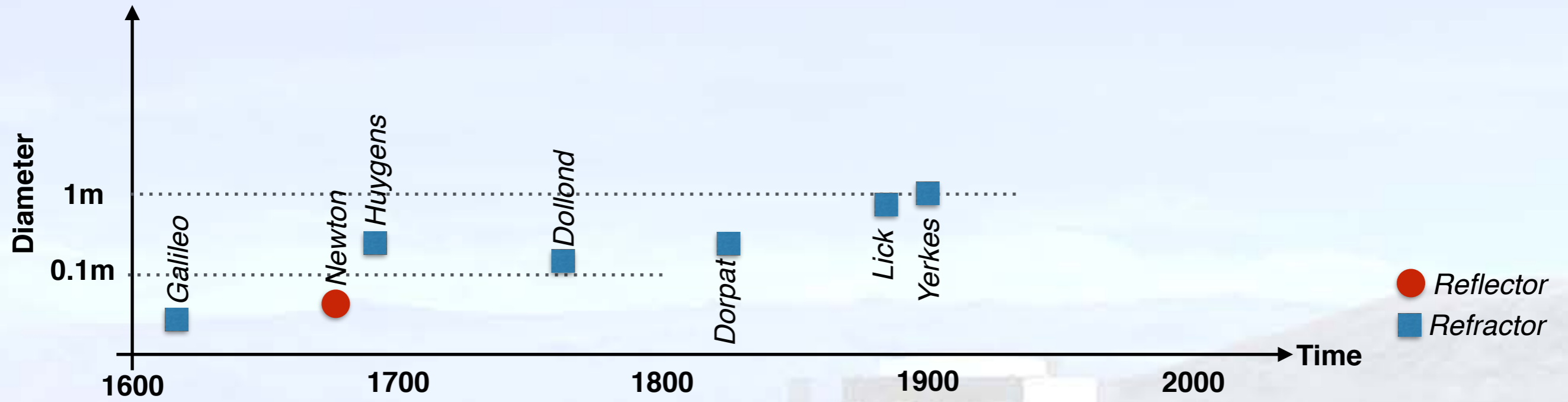
The evolution of the telescope



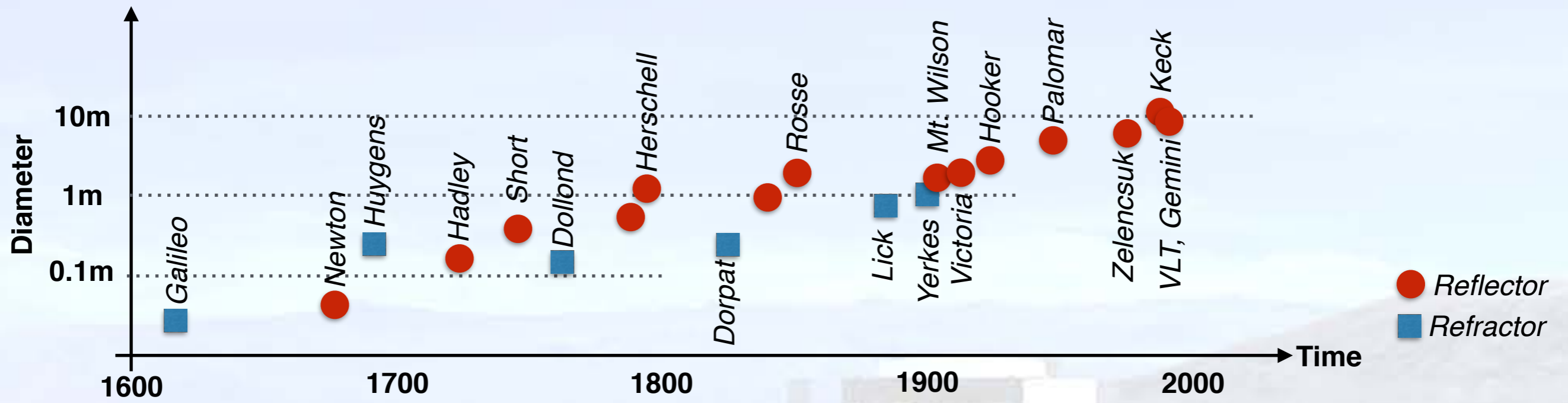
The evolution of the telescope



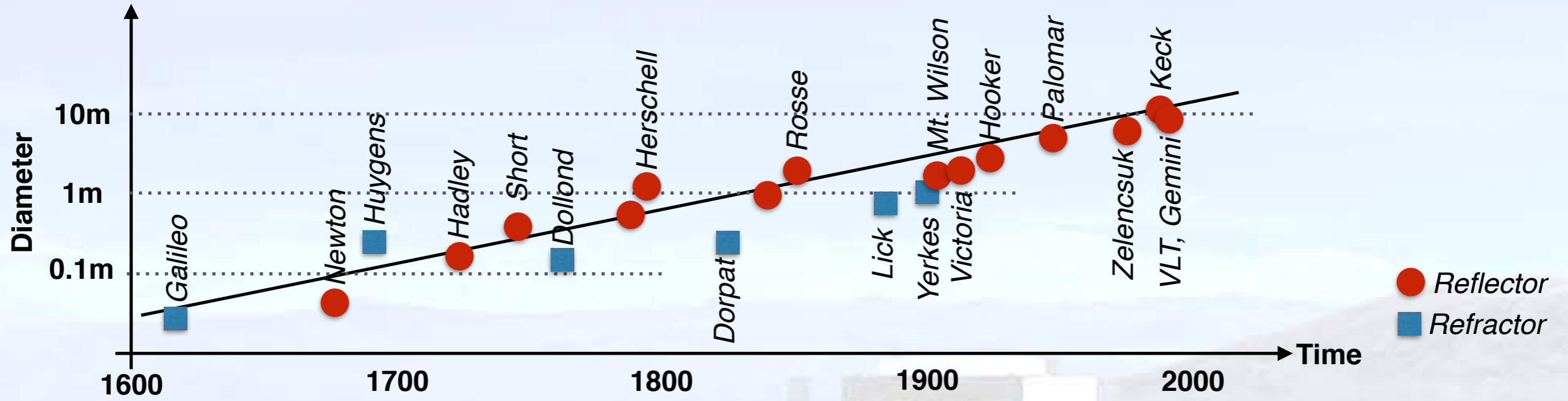
The evolution of the telescope



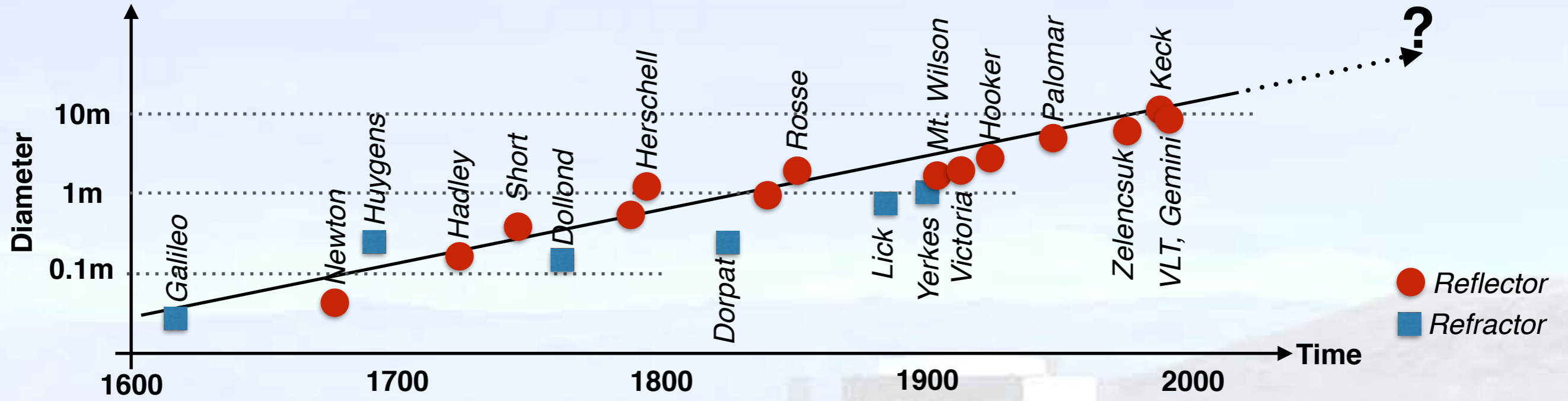
The evolution of the telescope



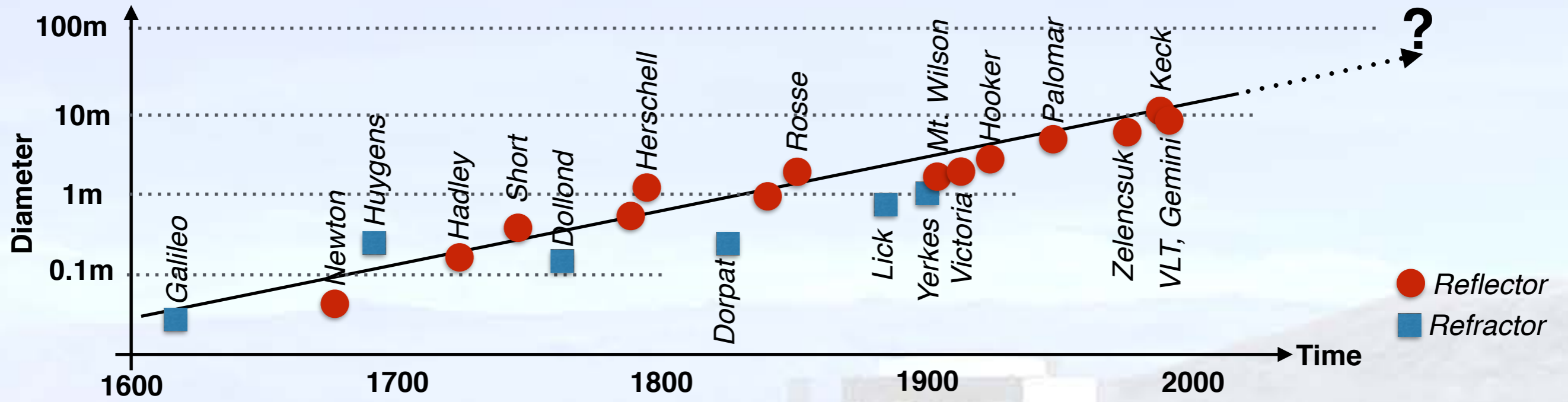
The evolution of the telescope



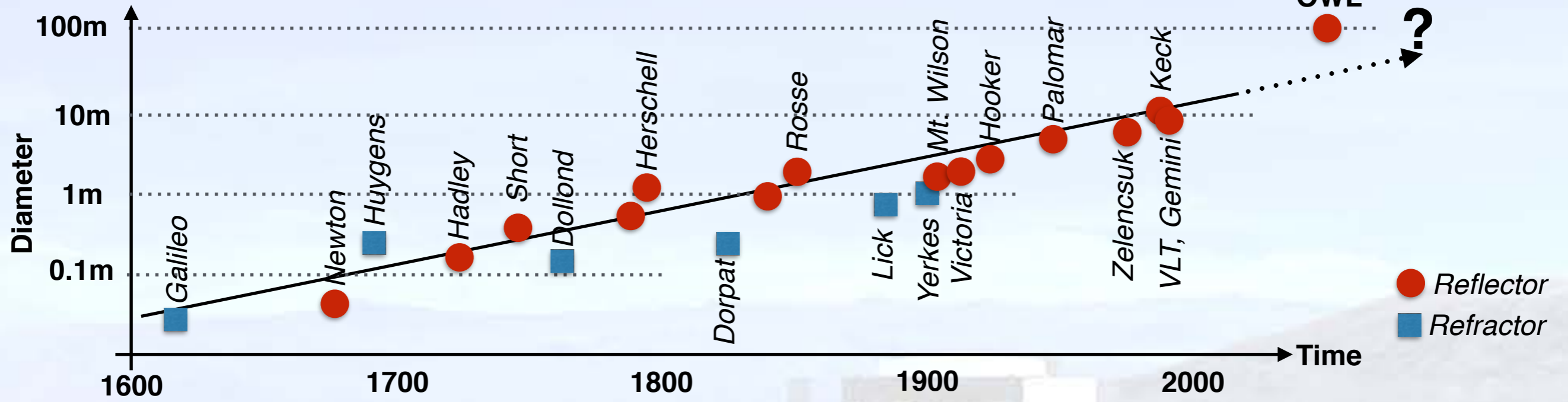
The evolution of the telescope



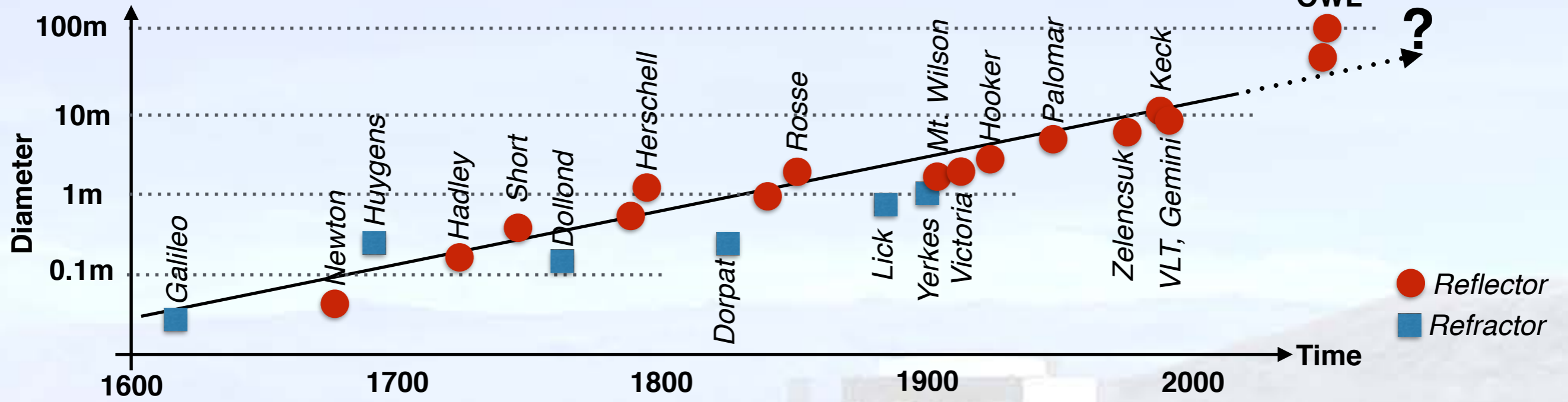
The evolution of the telescope



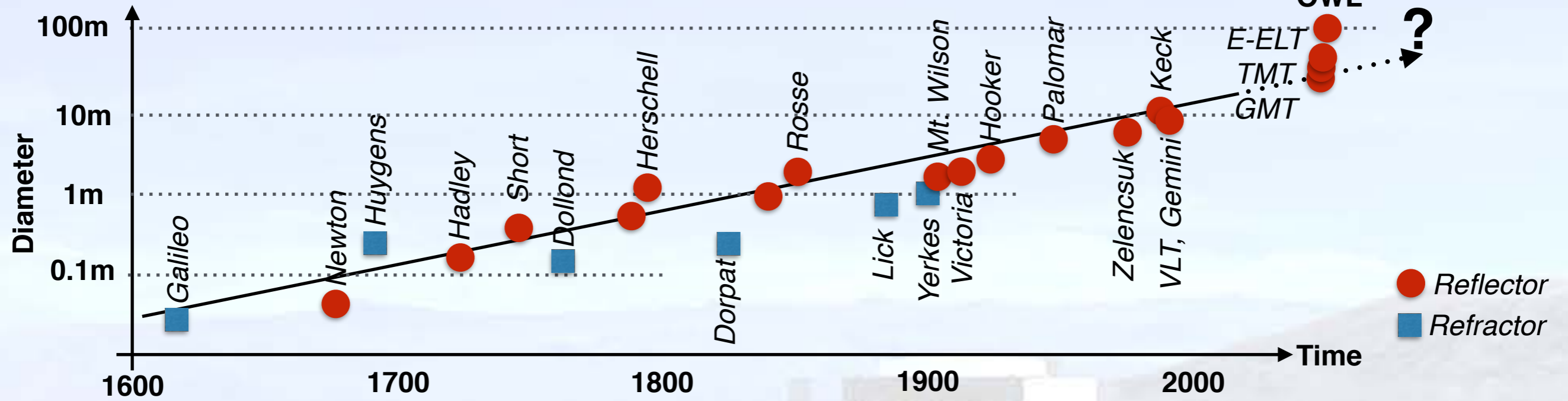
The evolution of the telescope



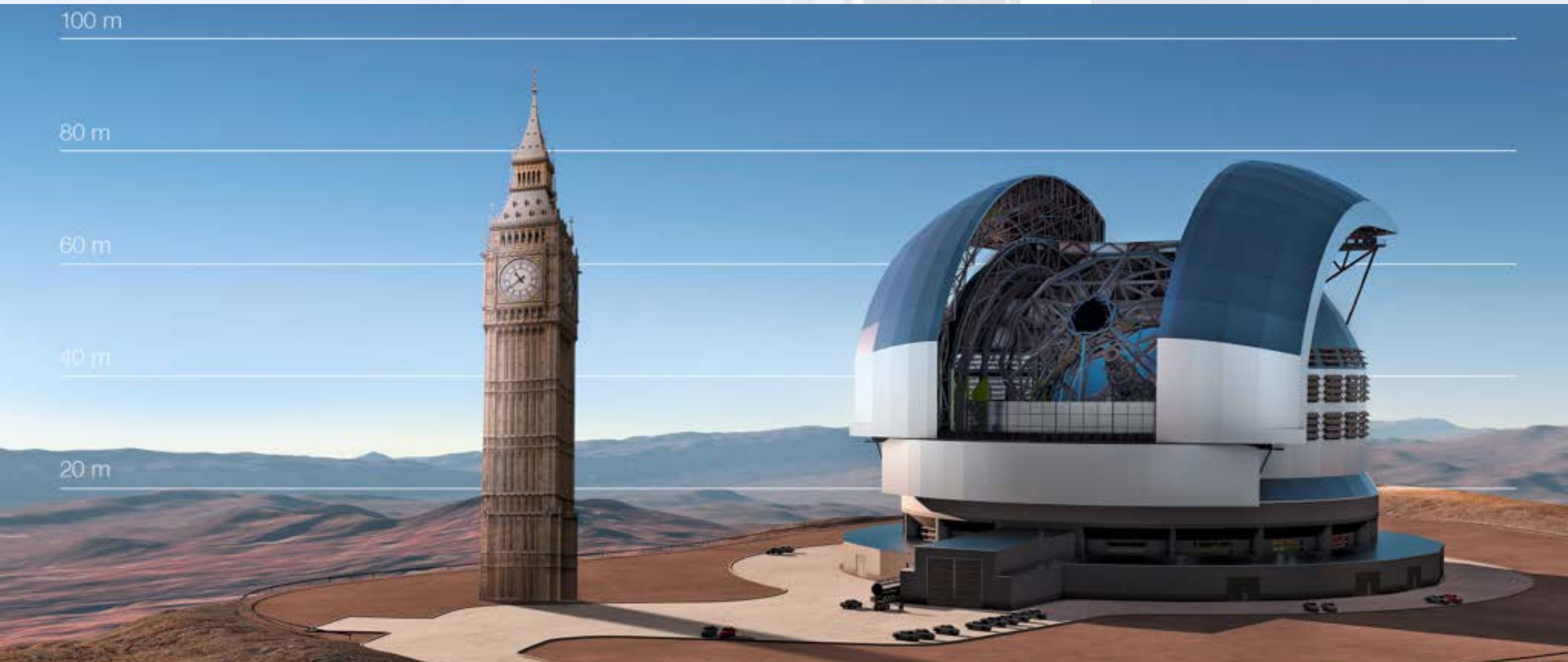
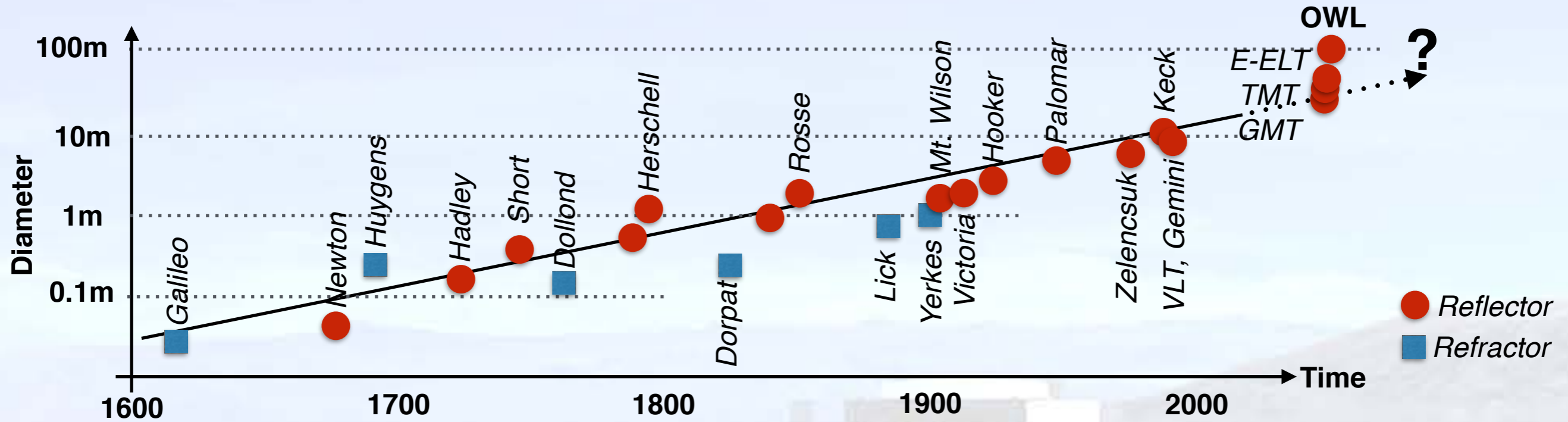
The evolution of the telescope



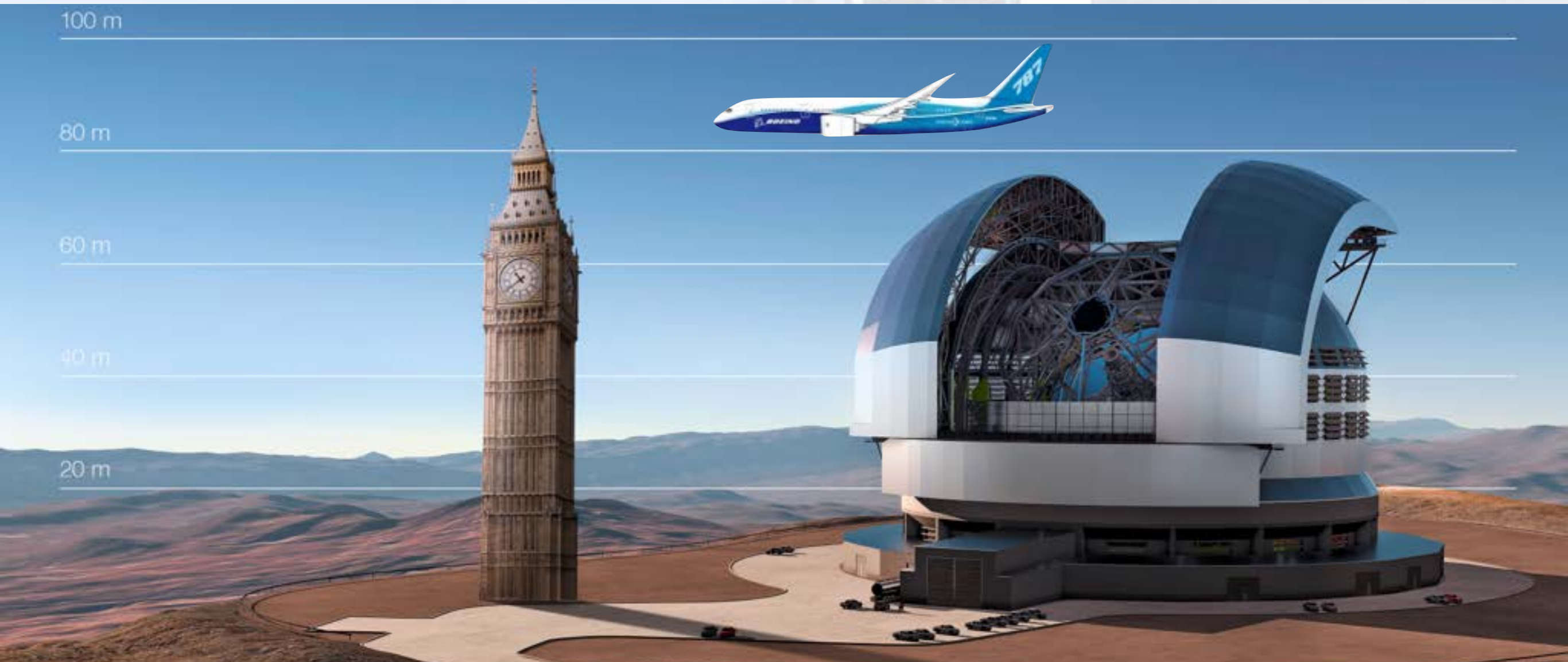
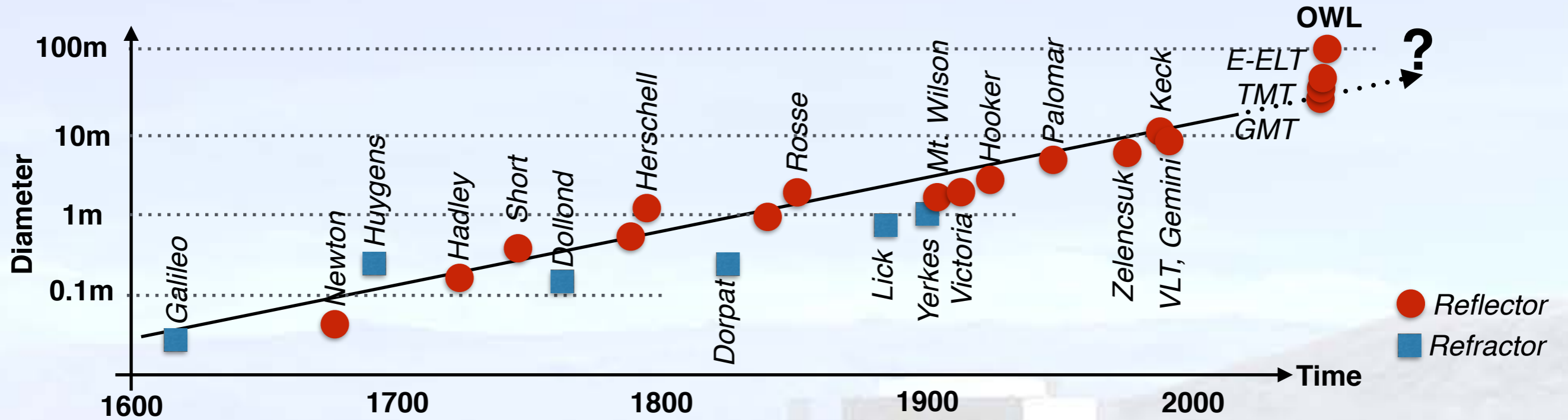
The evolution of the telescope



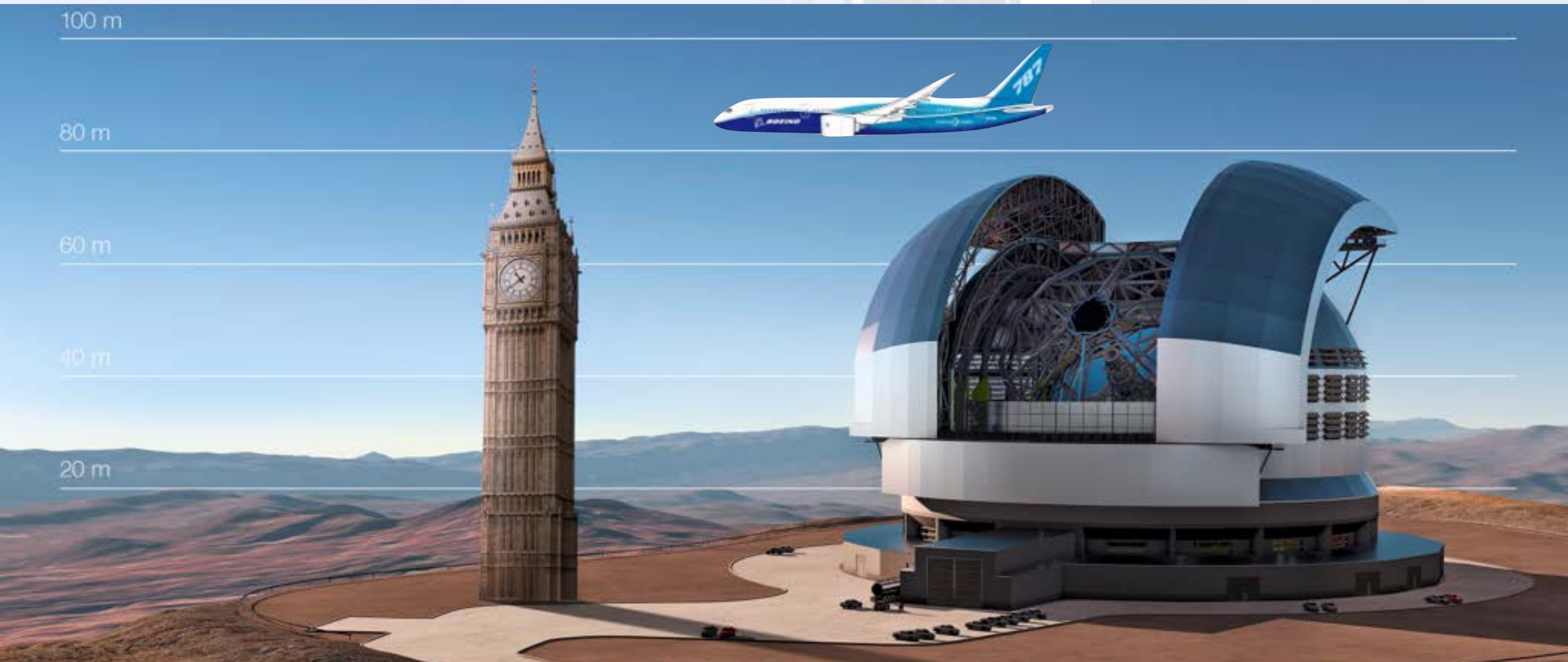
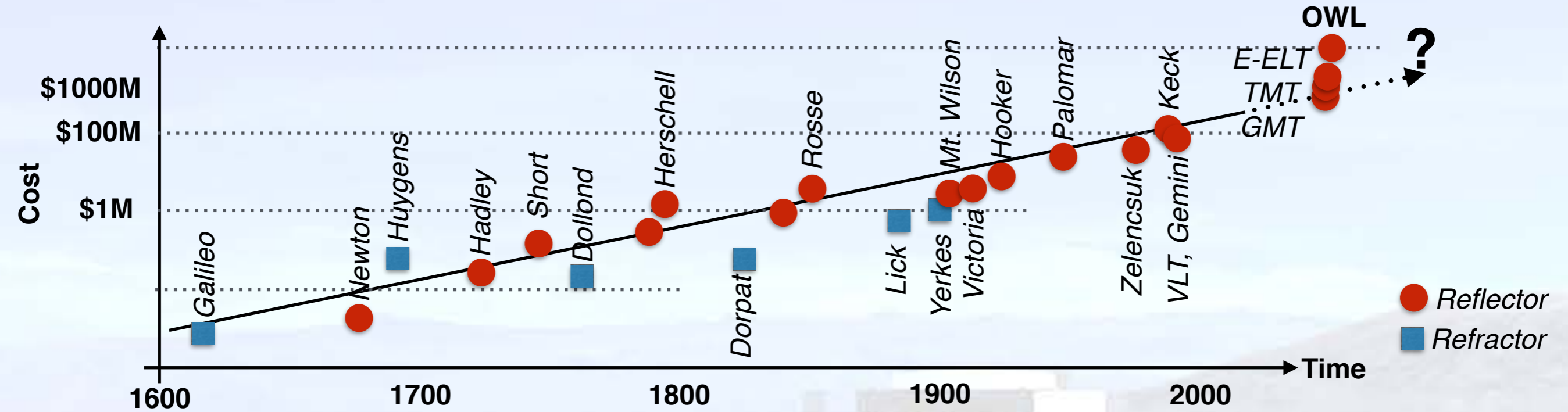
The evolution of the telescope



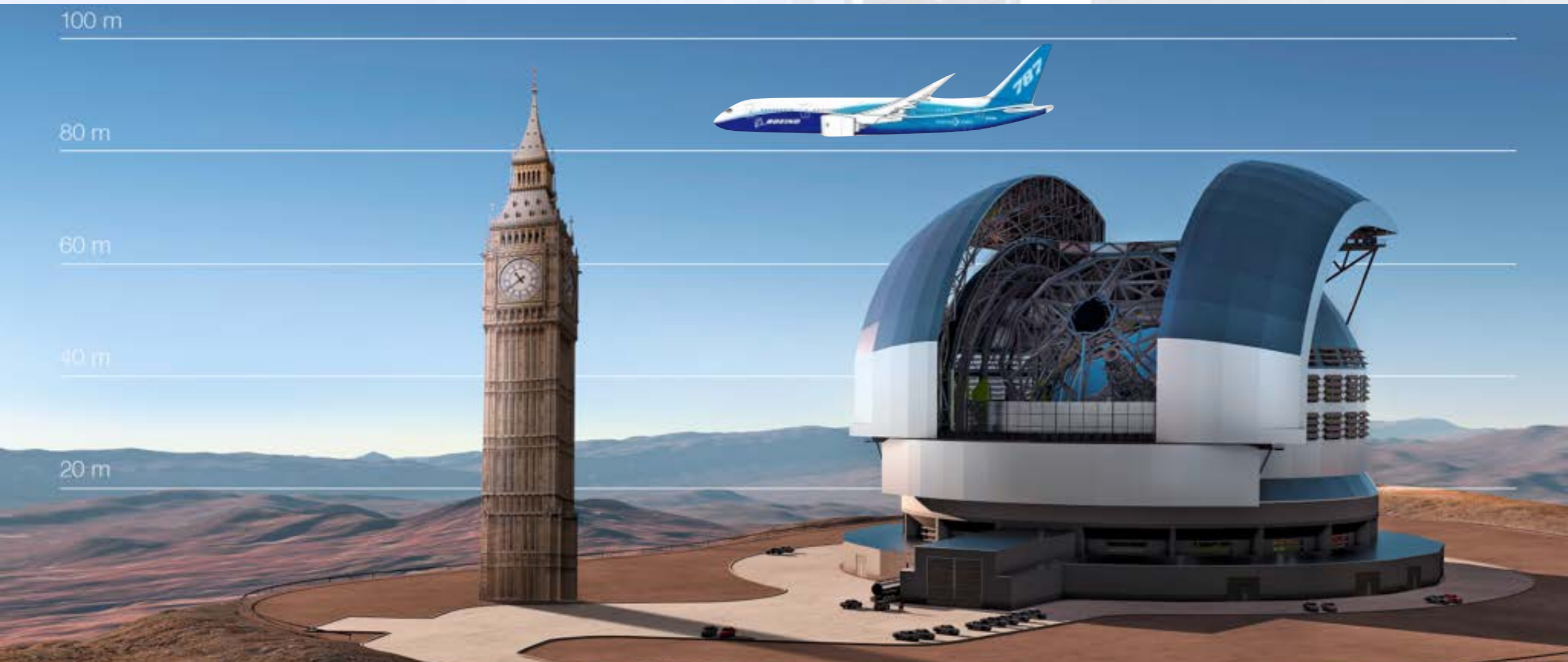
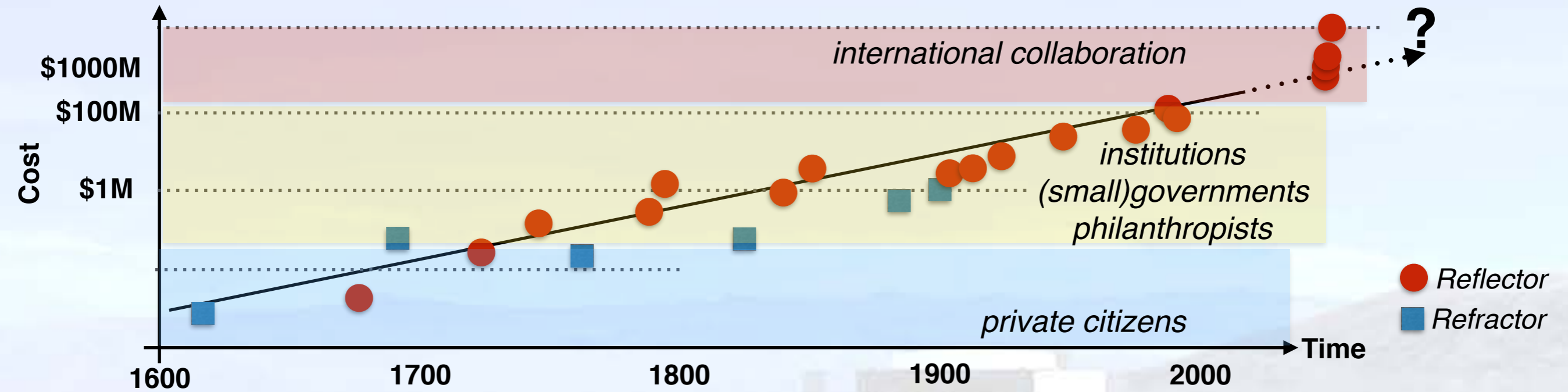
The evolution of the telescope



The evolution of the telescope



The evolution of the telescope



Technology — and Economy

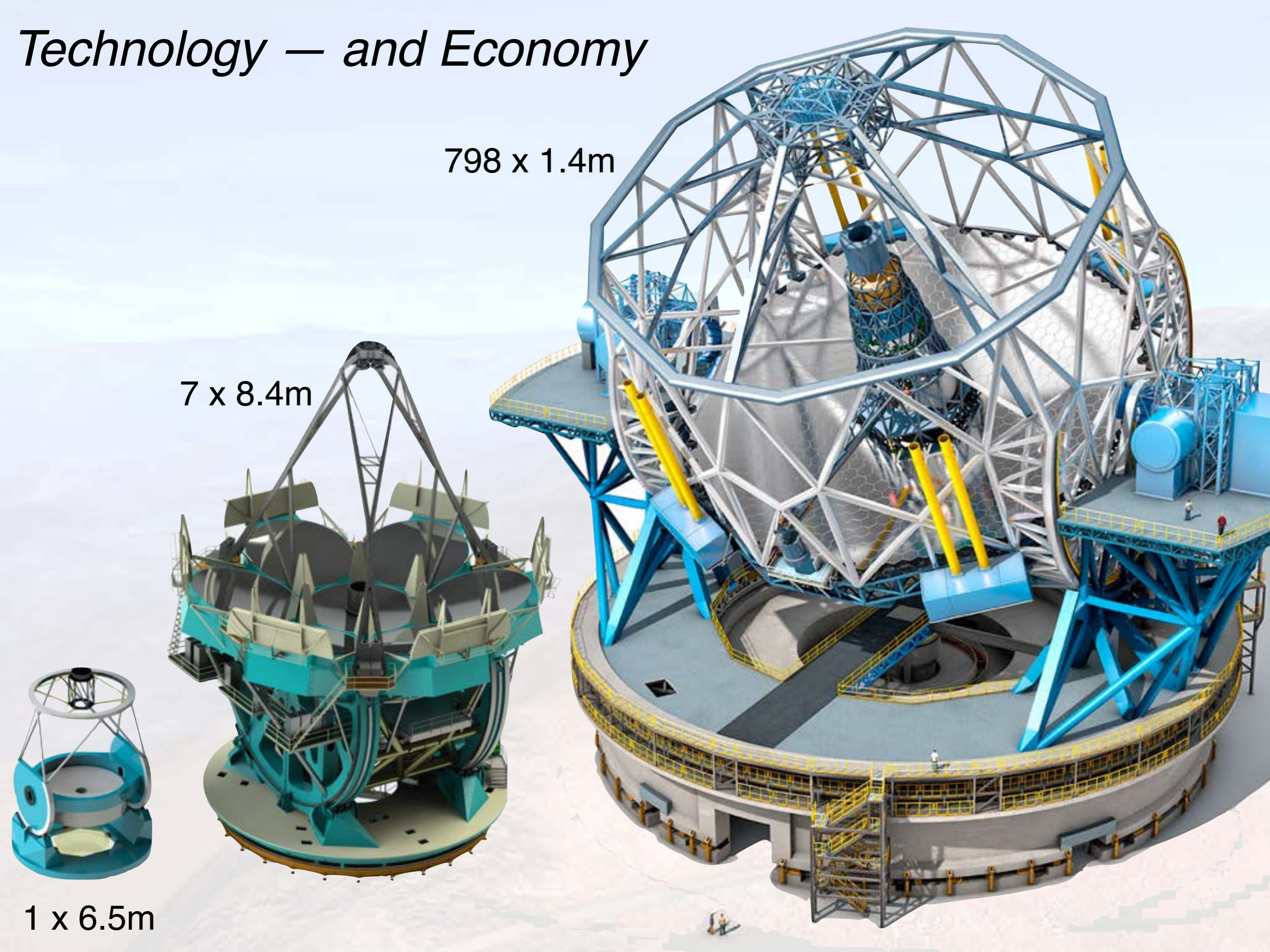


Technology — and Economy

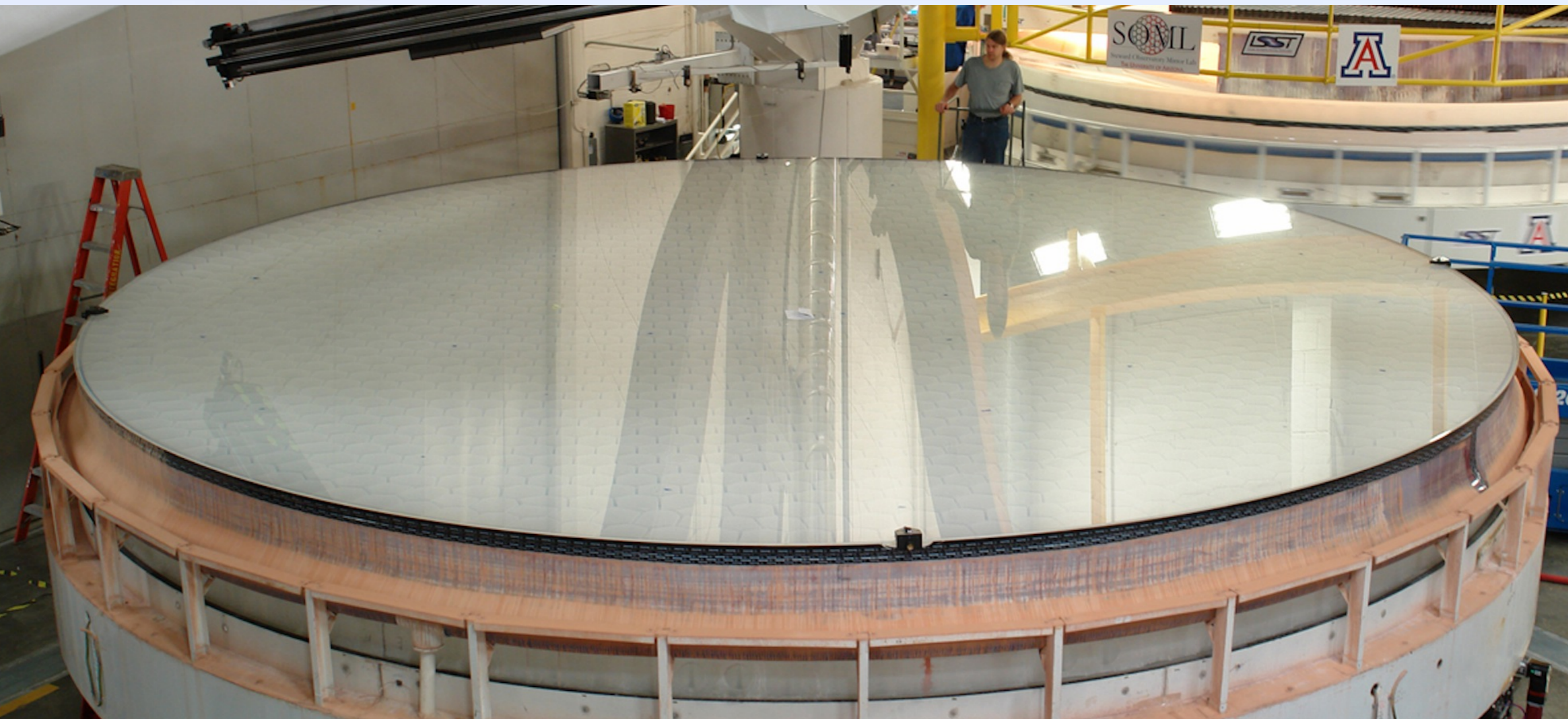
798 x 1.4m

7 x 8.4m

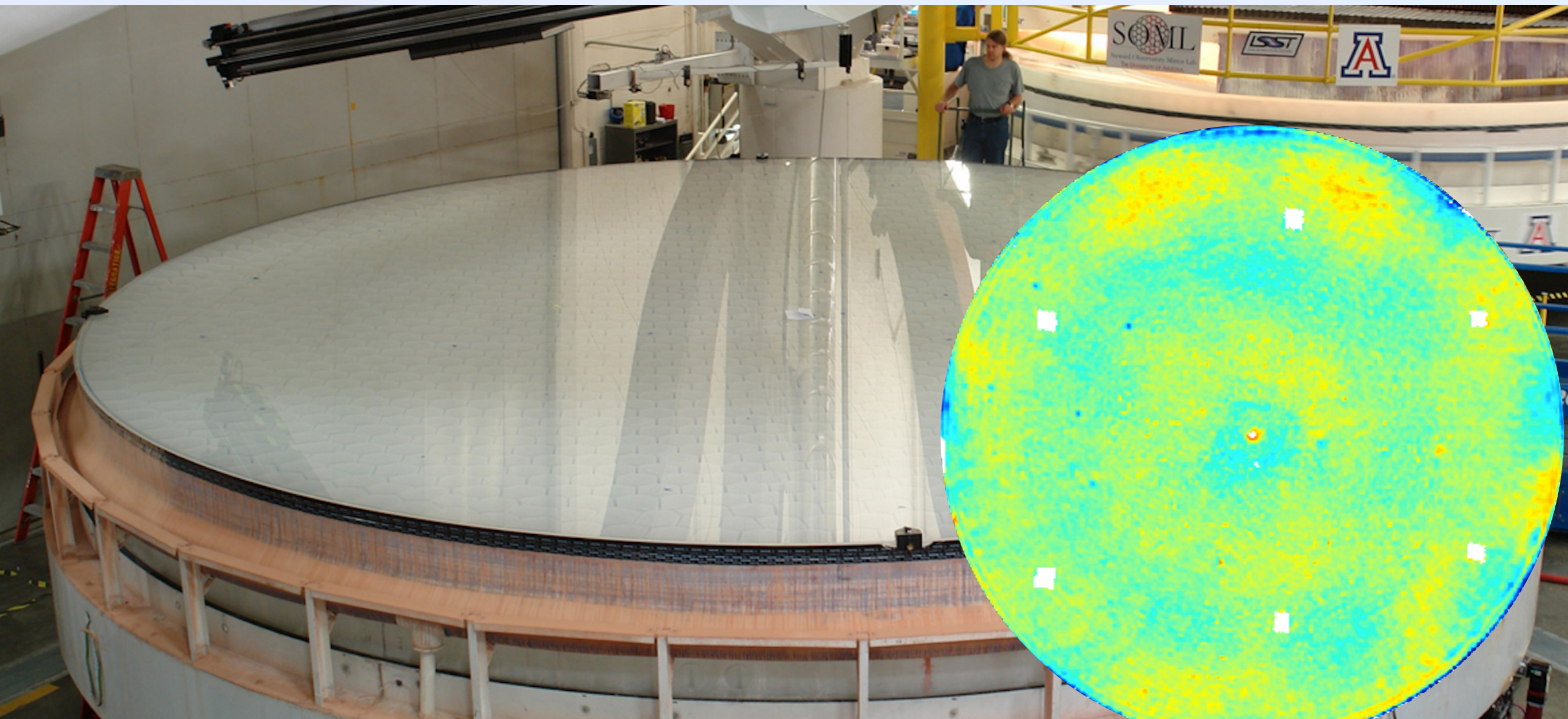
1 x 6.5m



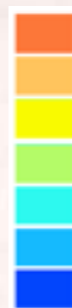
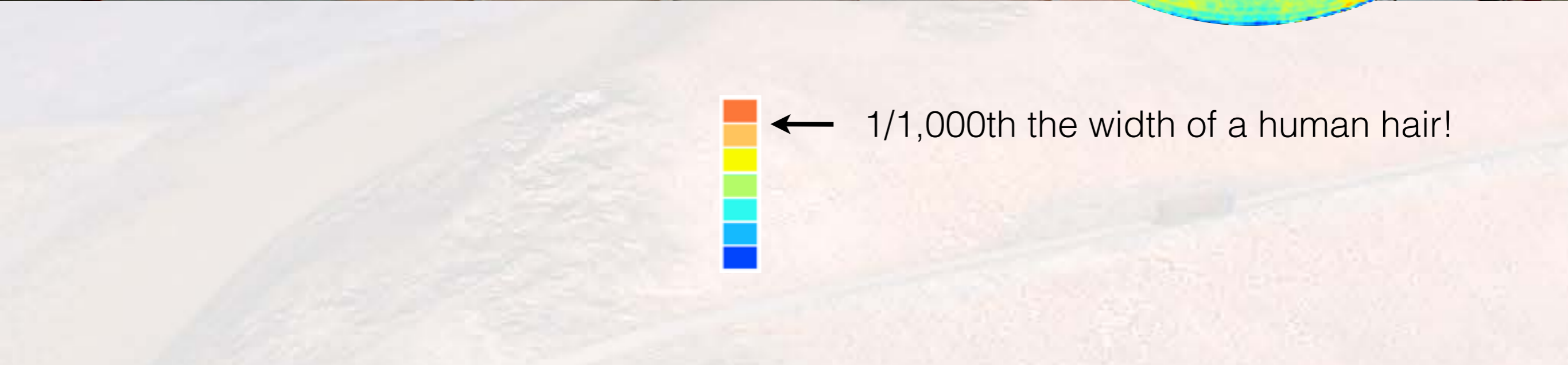
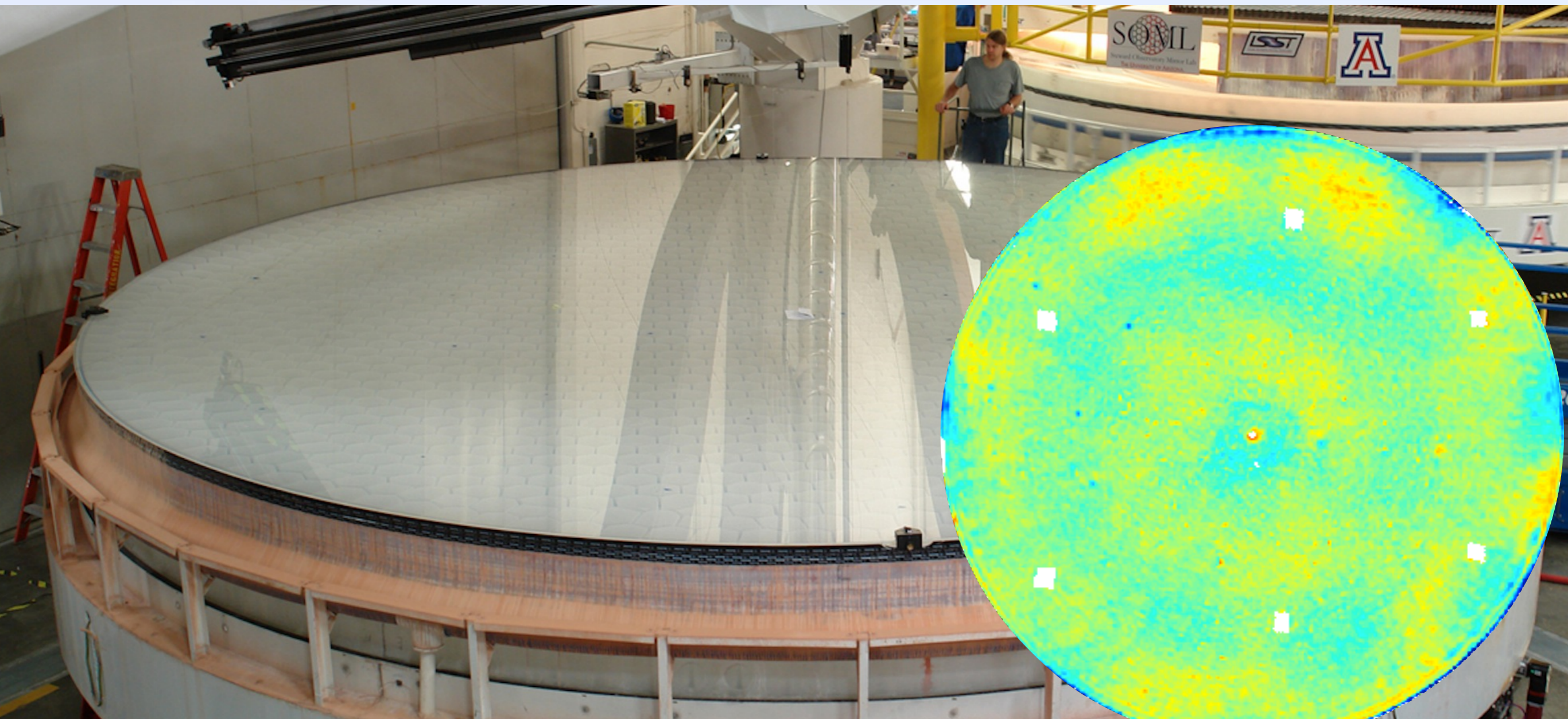
That's smooooooth!



That's smooooooth!

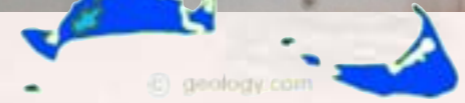
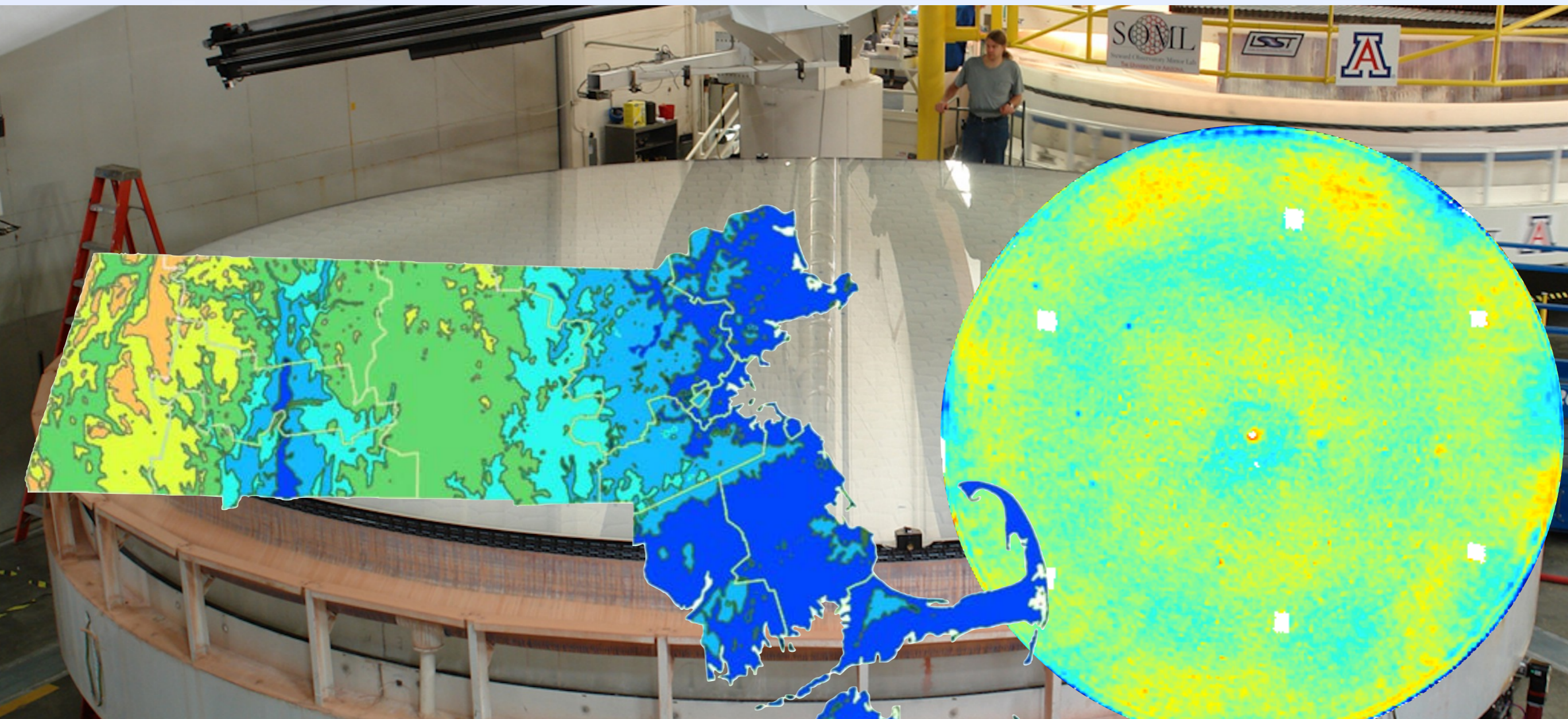


That's smooooooth!

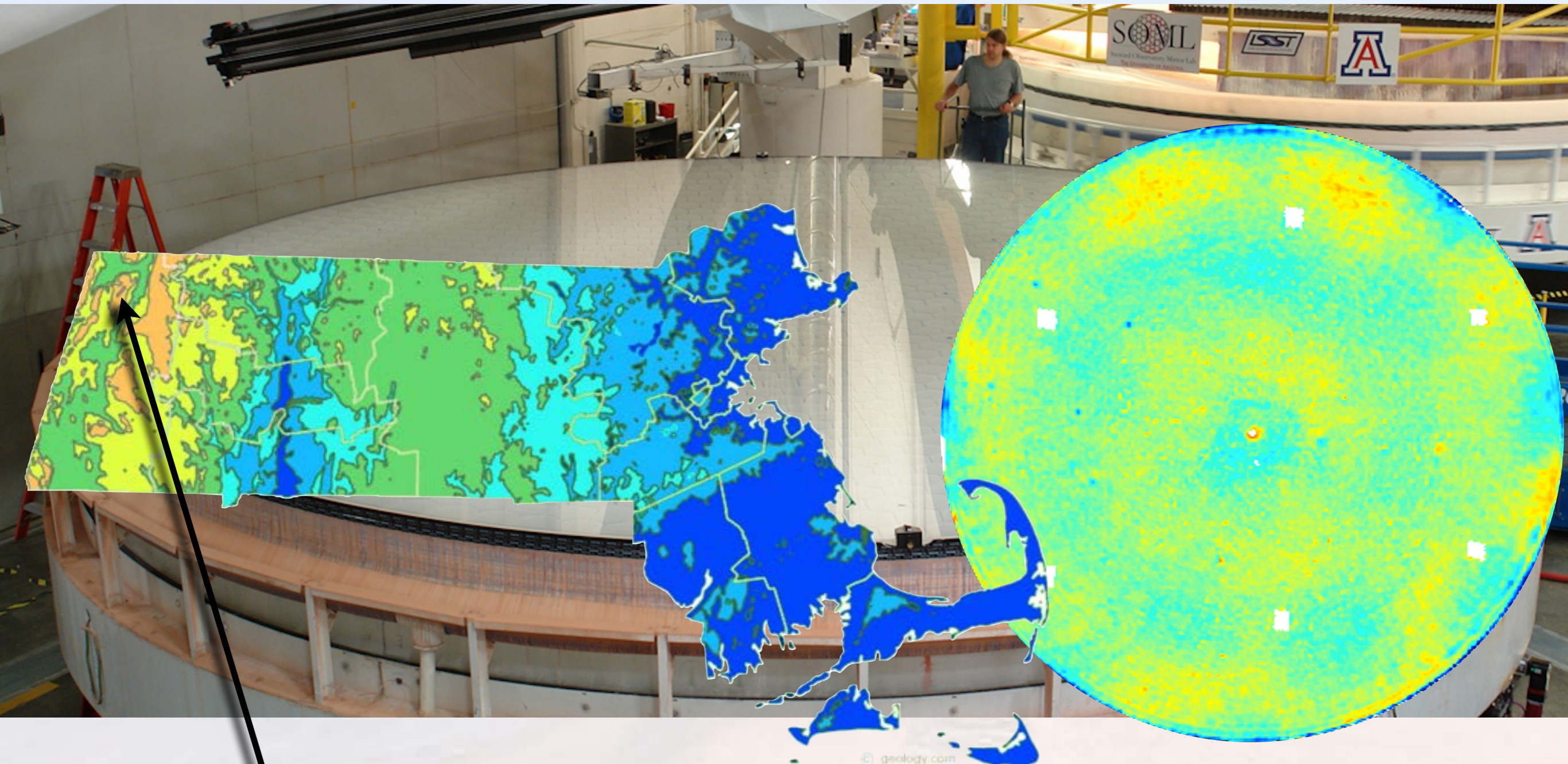


← 1/1,000th the width of a human hair!

That's smooooooth!



That's smooooooth!

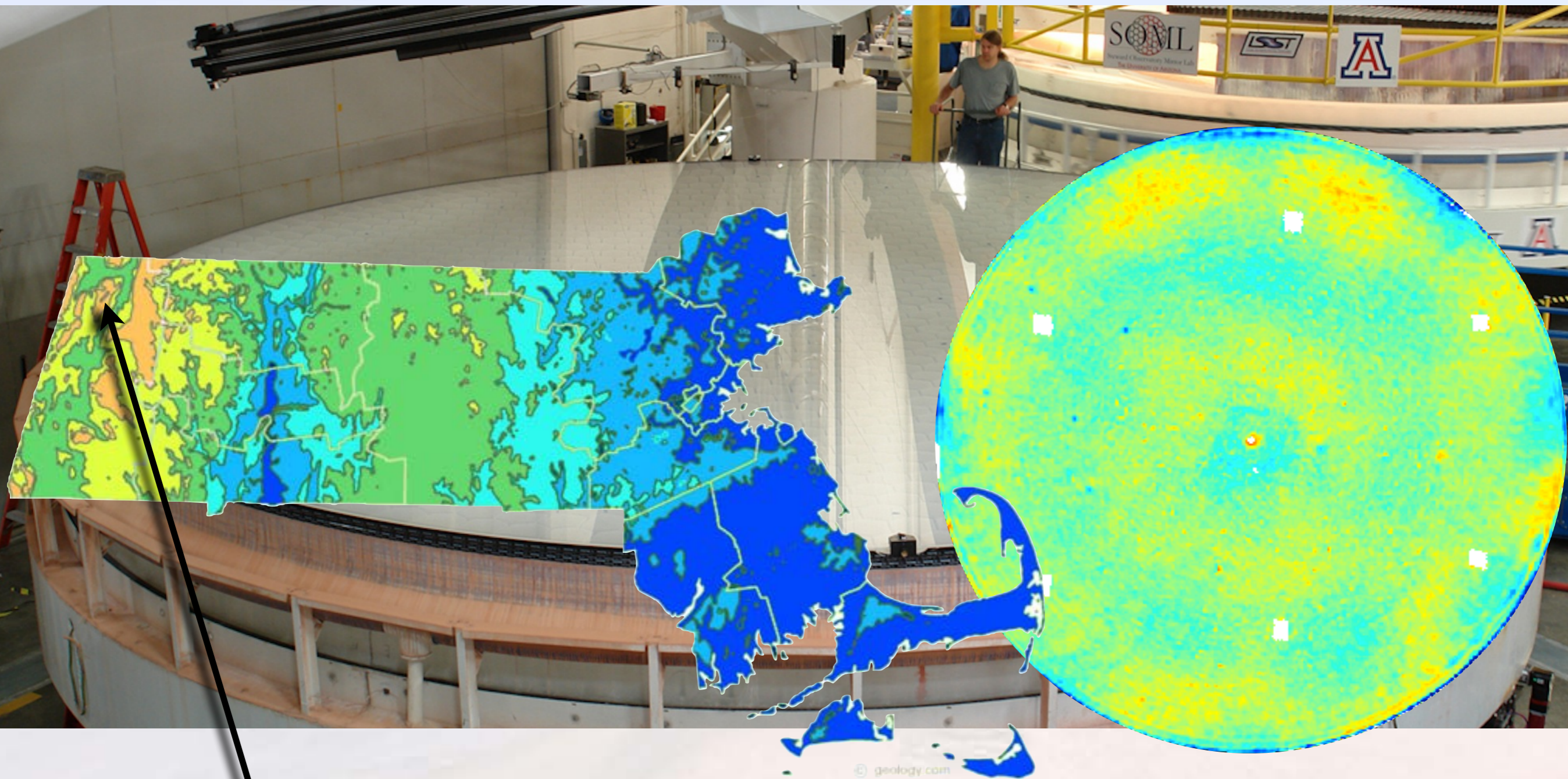


**Mt Greylock
(3,491 ft)**

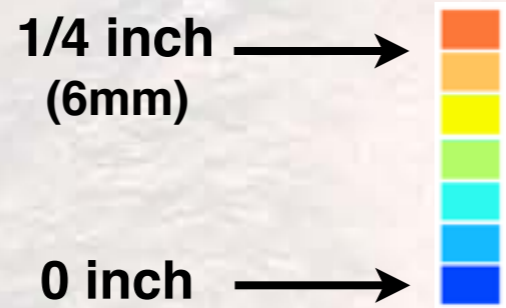


© geology.com

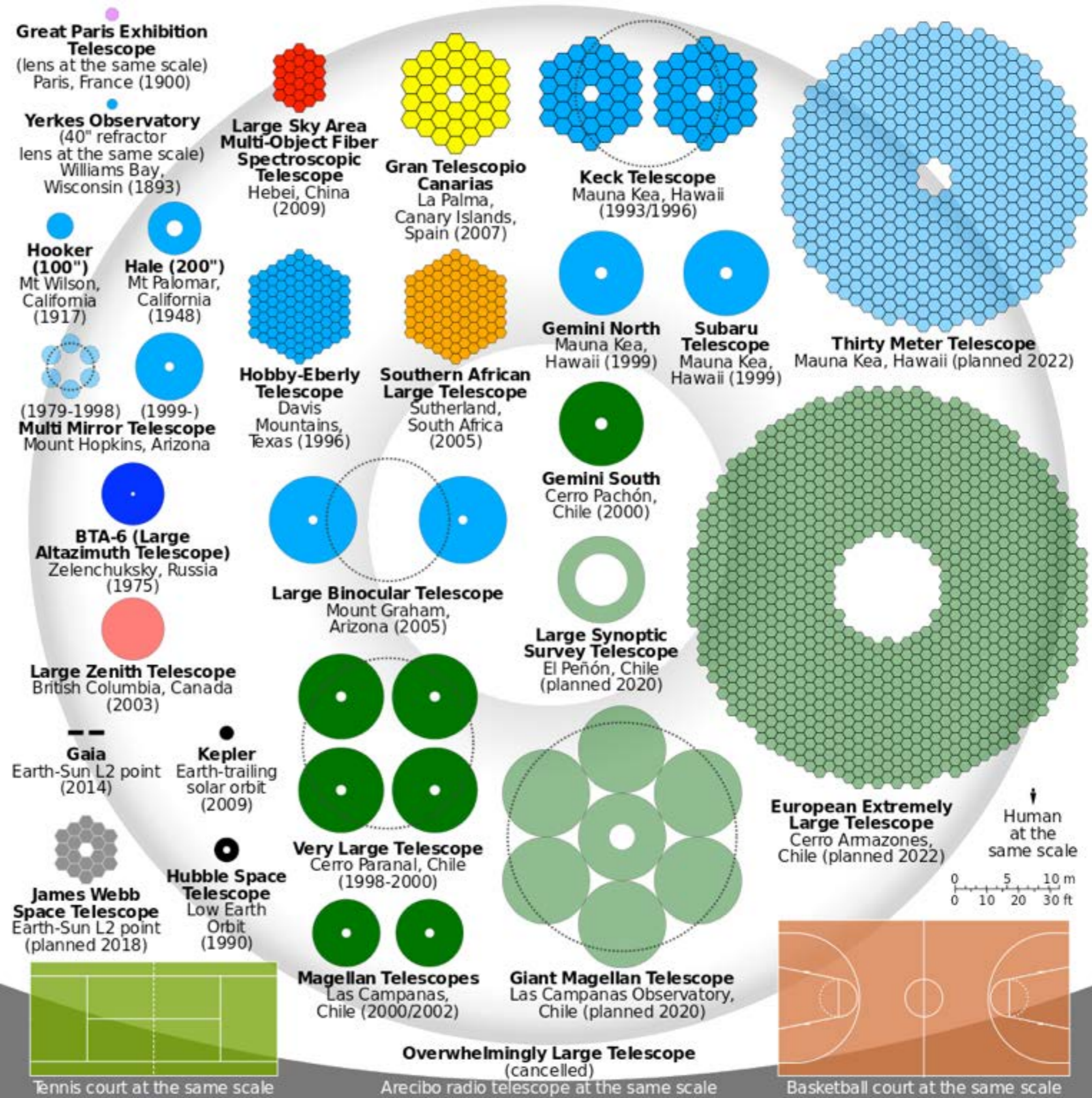
That's smooooooth!



**Mt Greylock
(3,491 ft)**

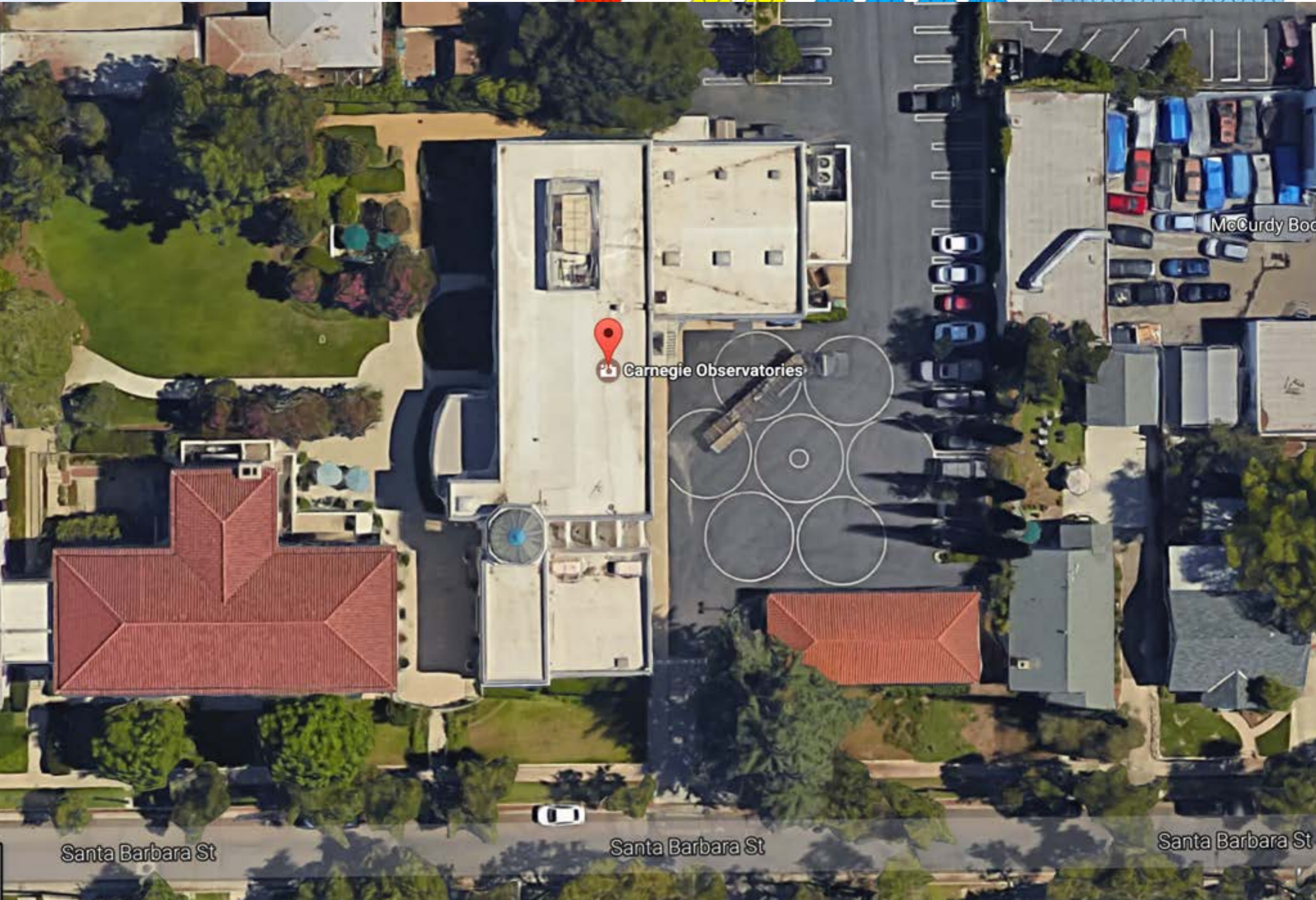
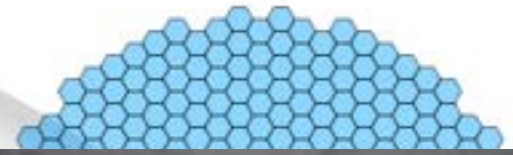


Size matters!



Size

Great Paris Exhibition
Telescope
(lens at the same scale)
Paris, France (1900)



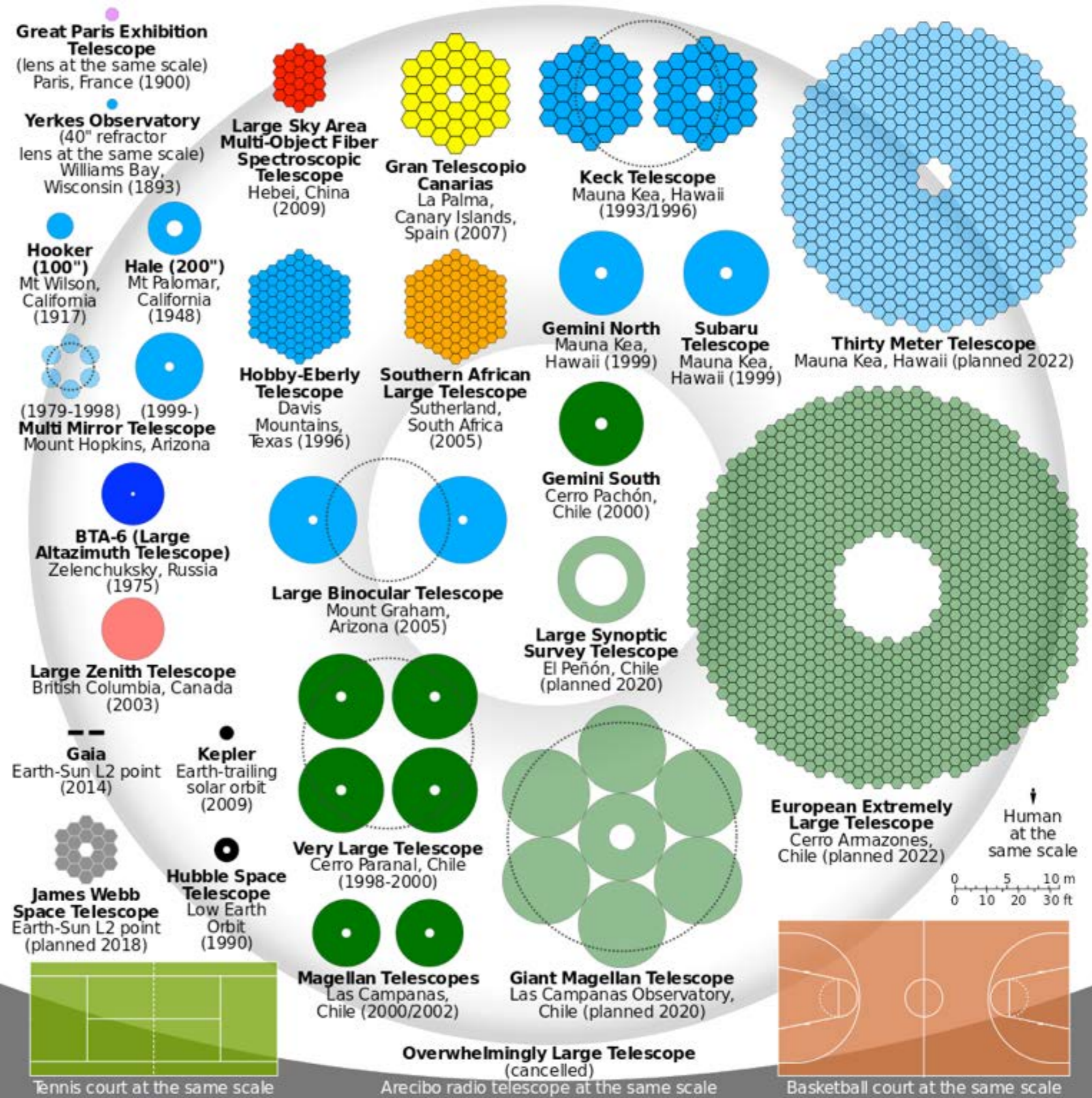
Santa Barbara St

Santa Barbara St

Santa Barbara St

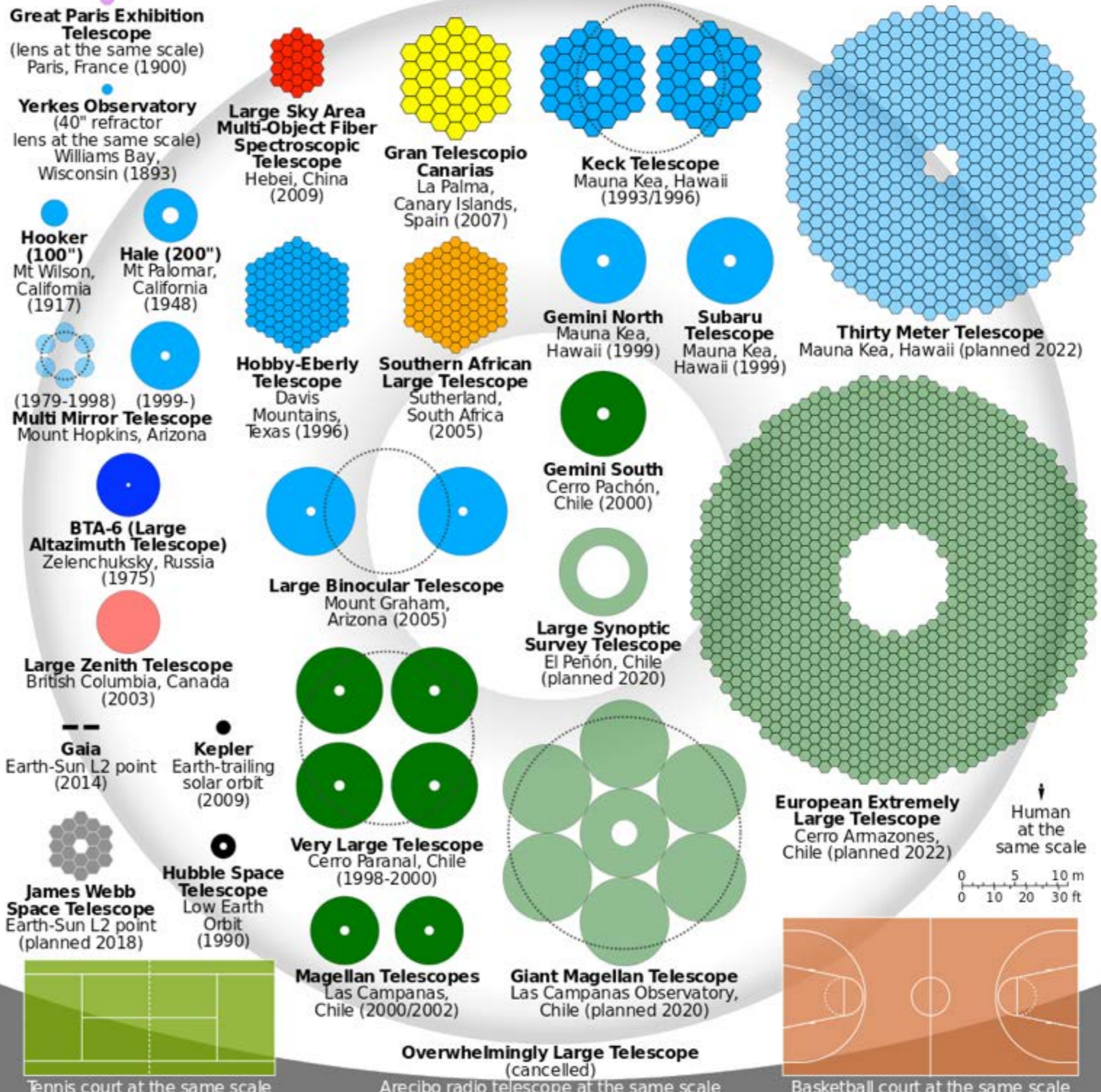
McCurdy Blvd

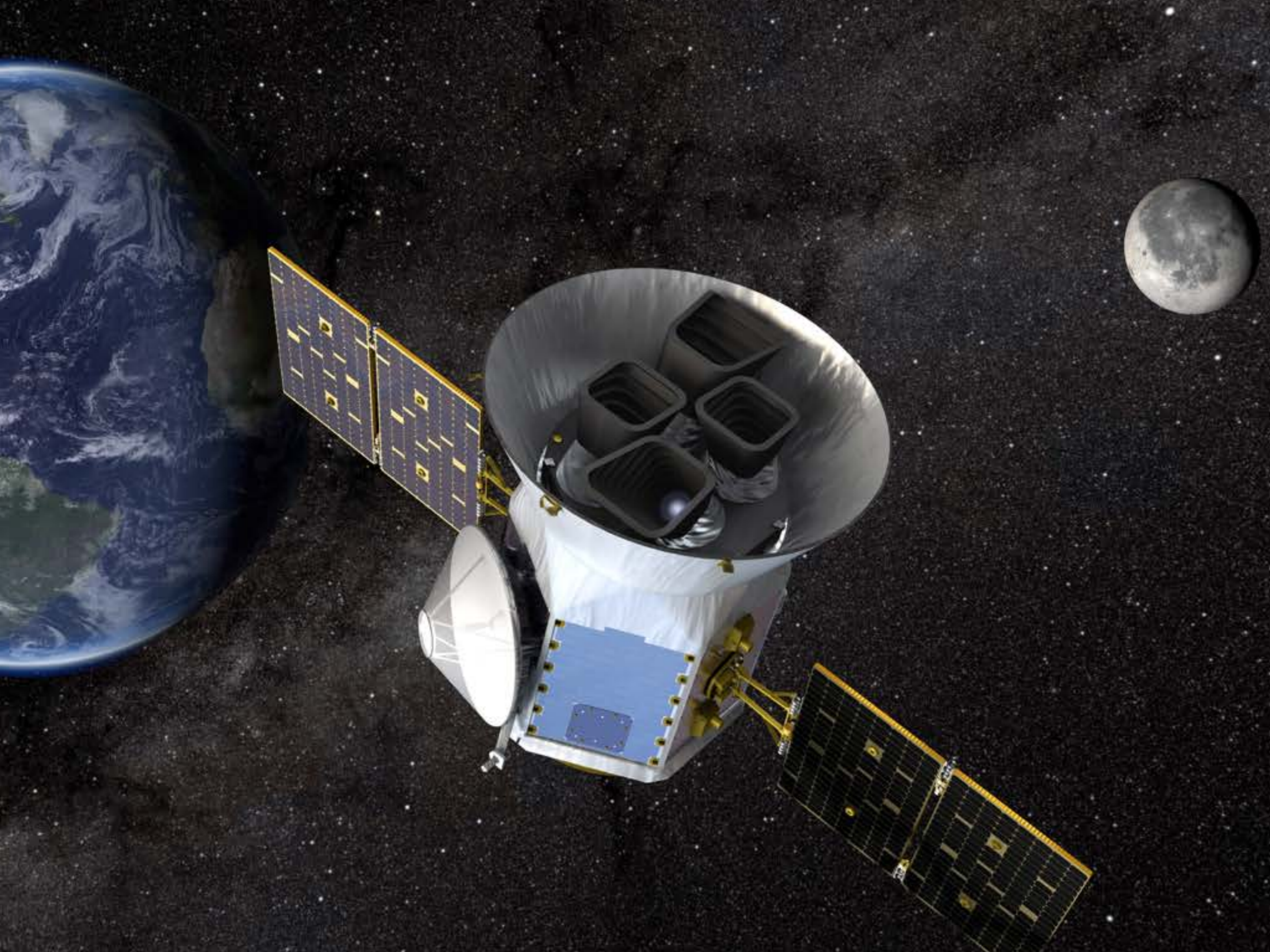
Size matters!

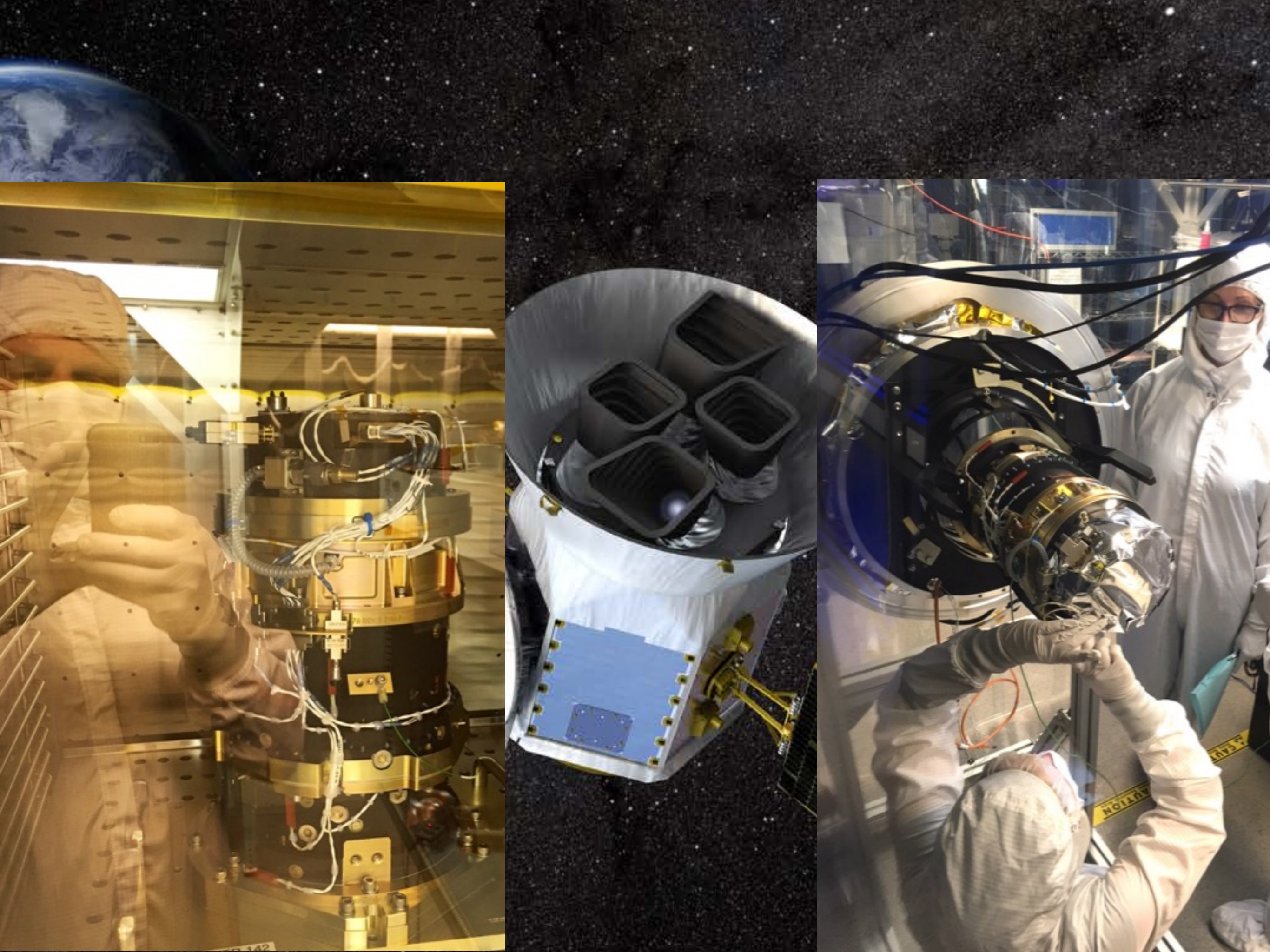


Size matters!

...but not always







Seeing...



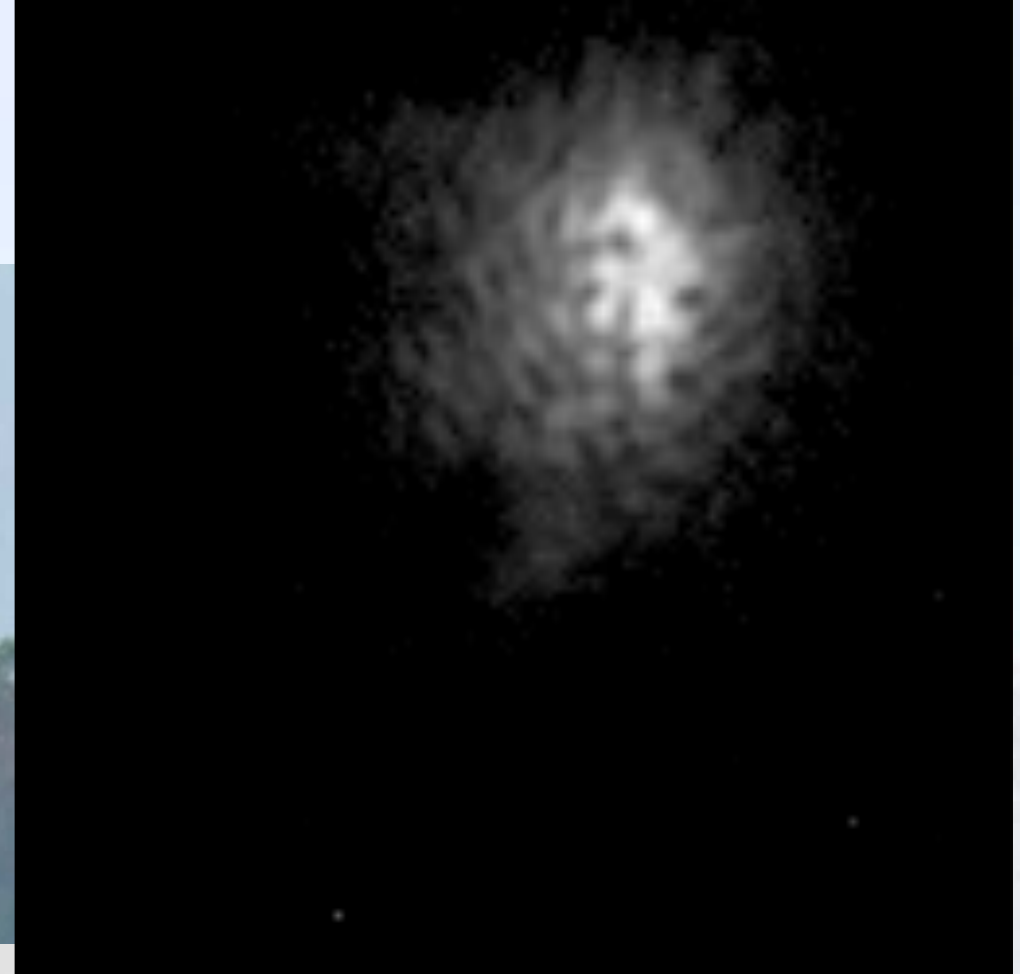
Seeing... ...is believing



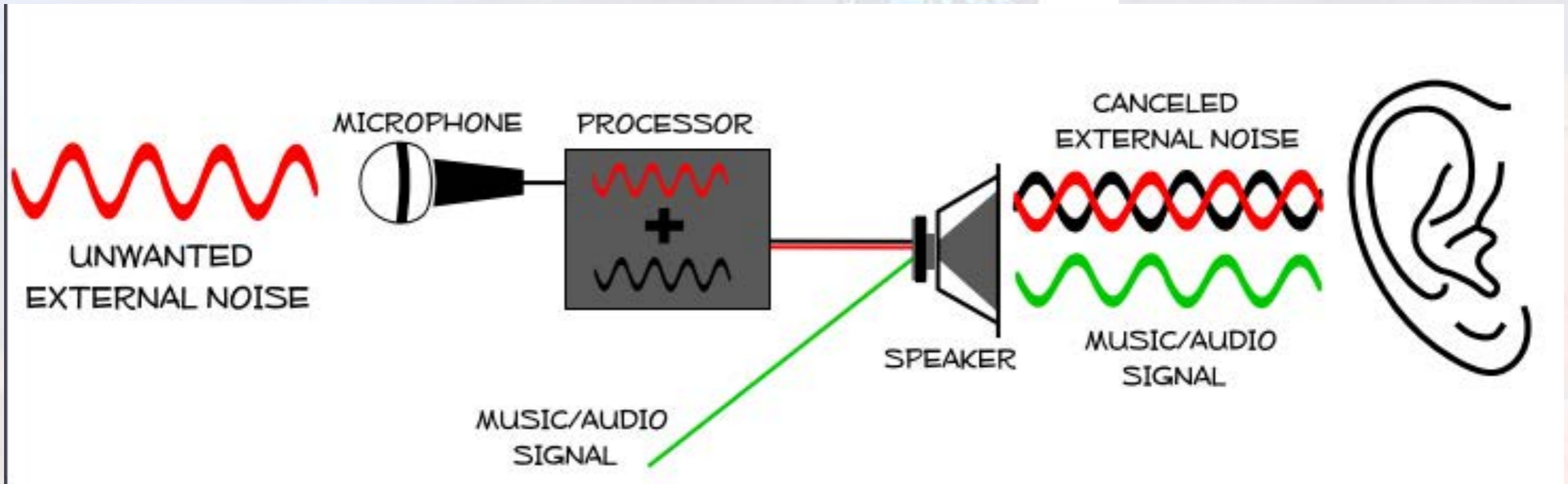
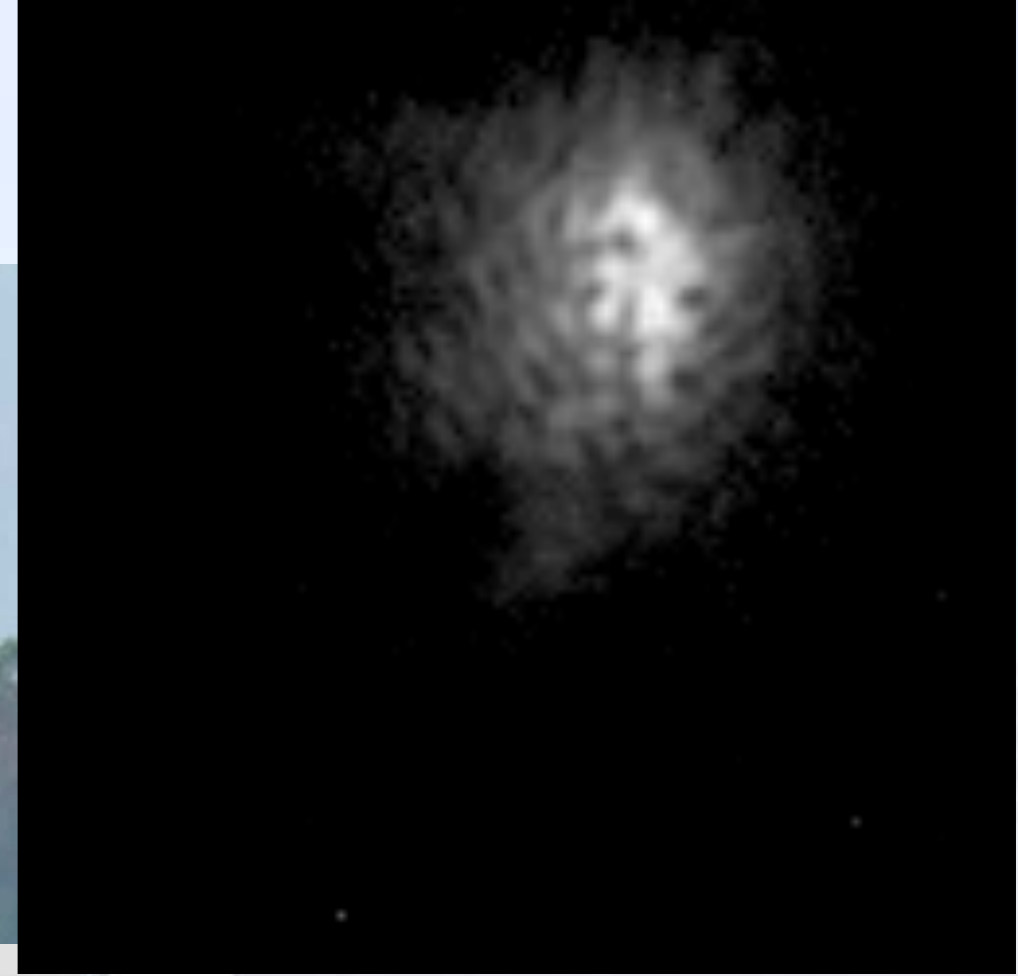
Seeing... ...is believing



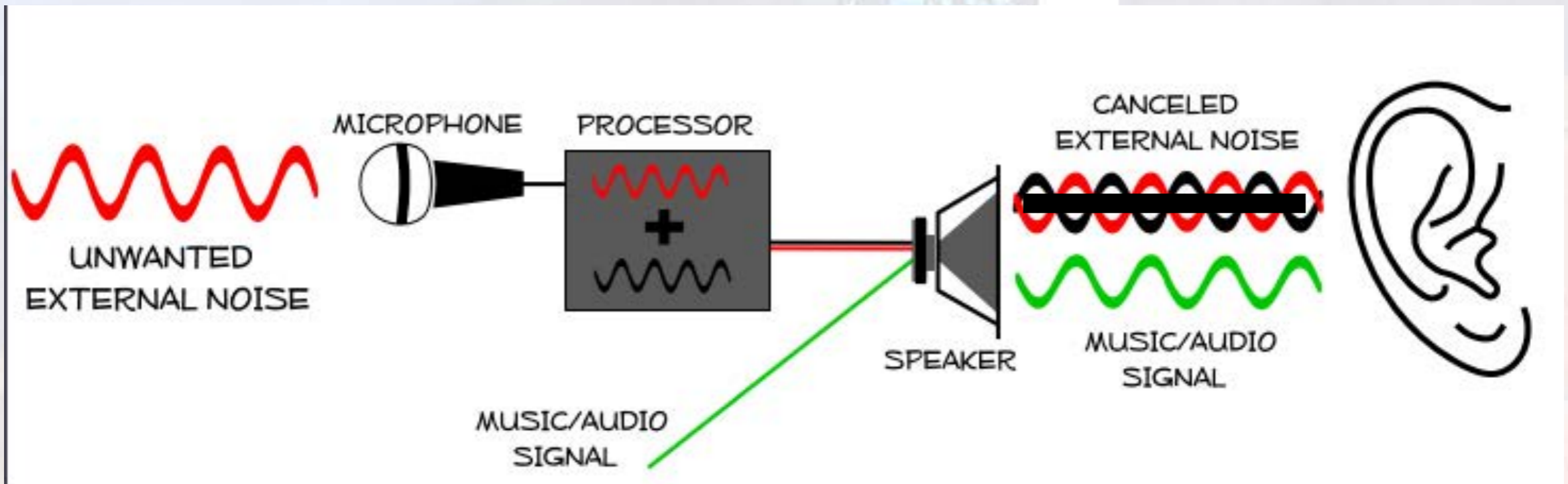
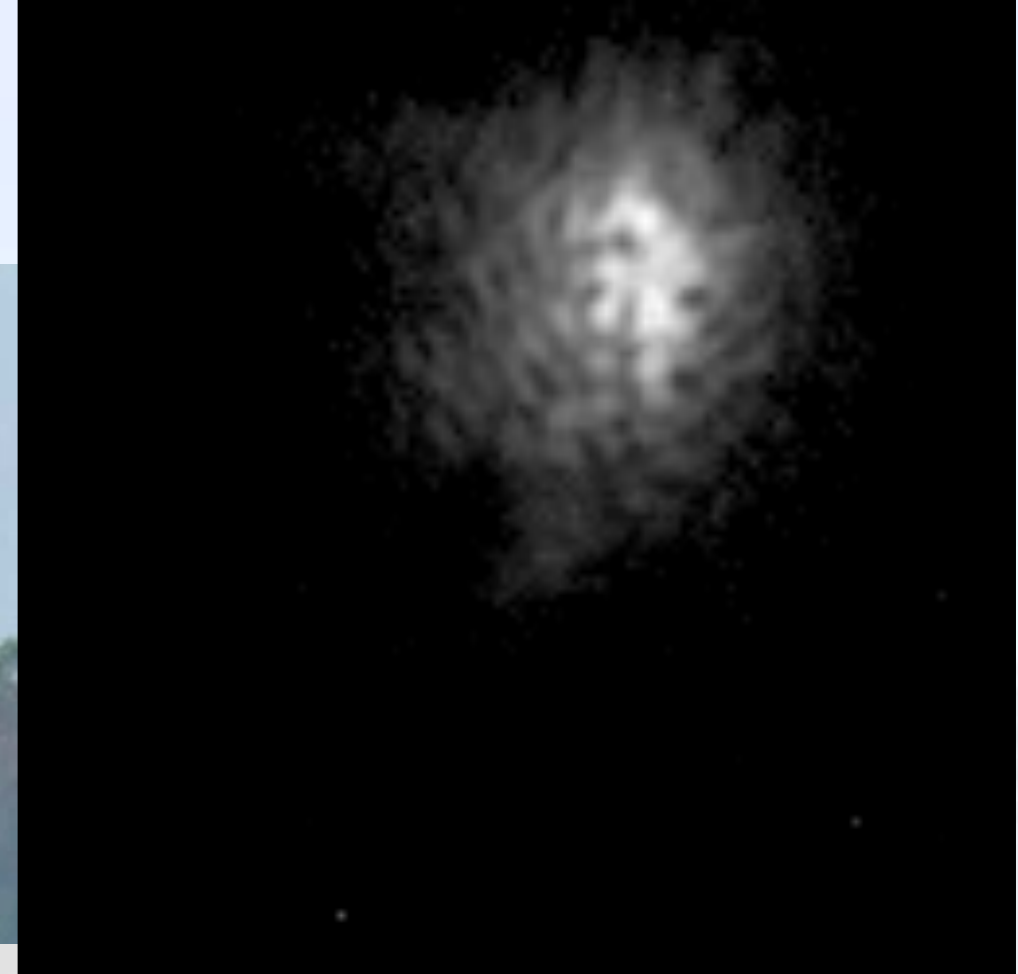
Seeing... ...is believing



Seeing... ...is believing

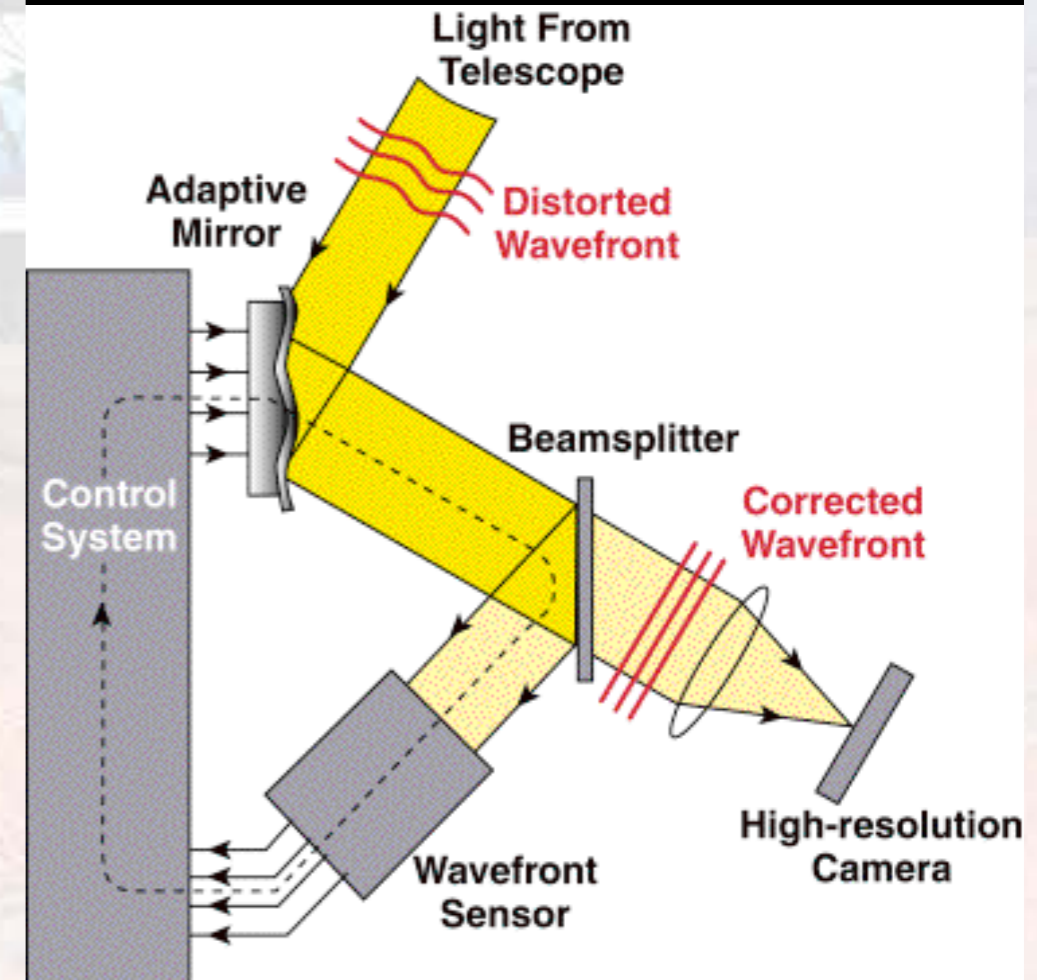
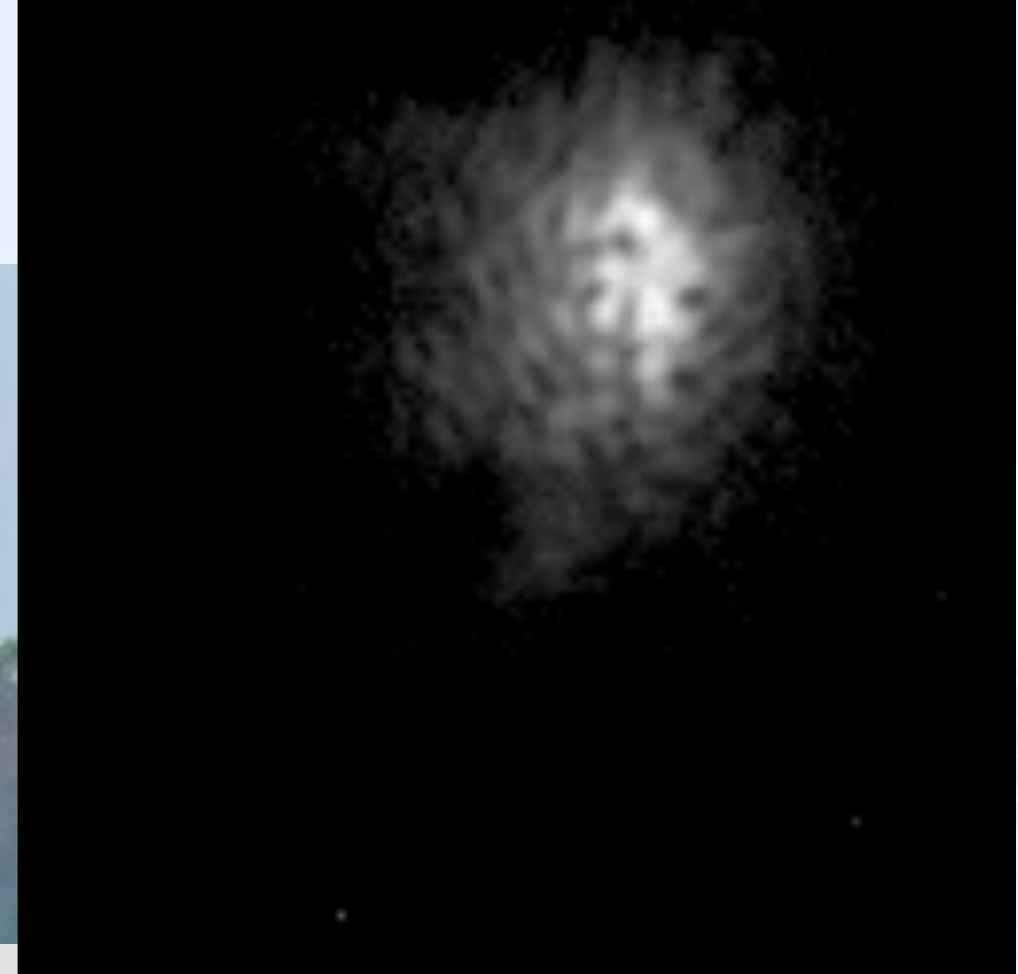


Seeing... ...is believing



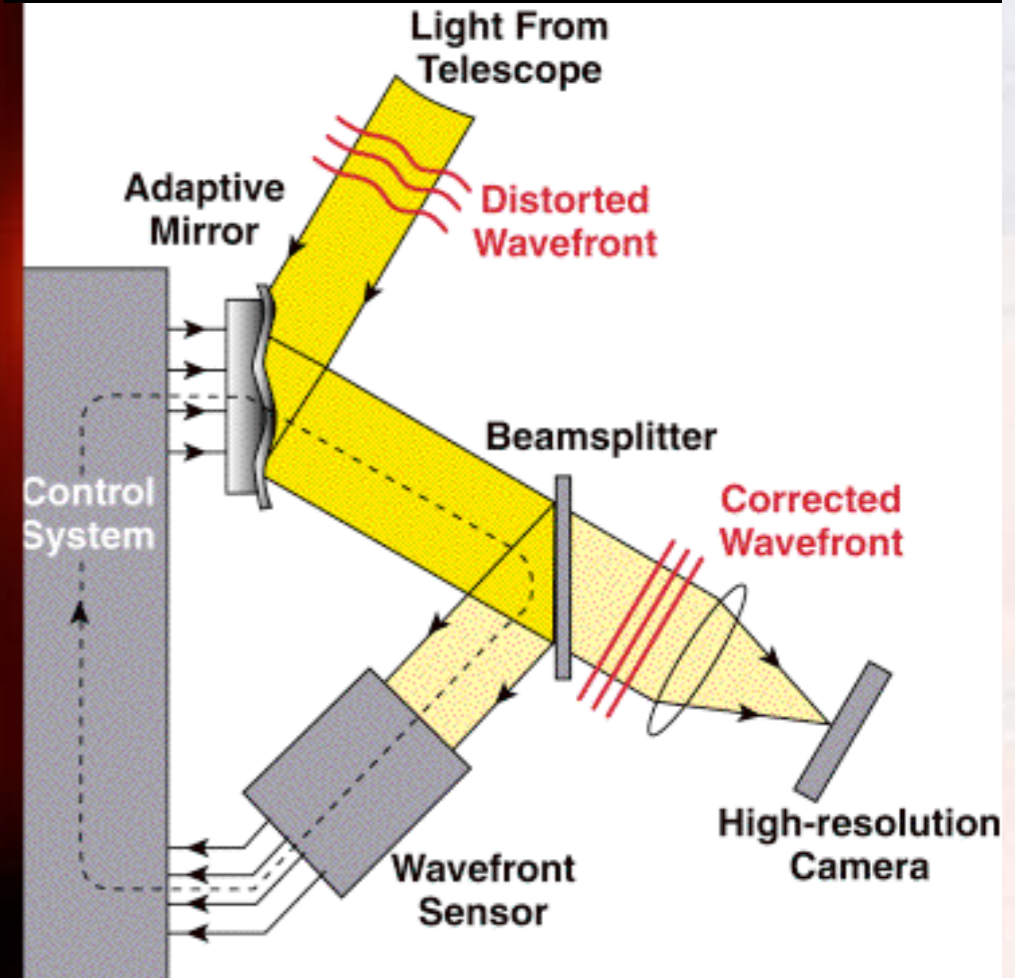
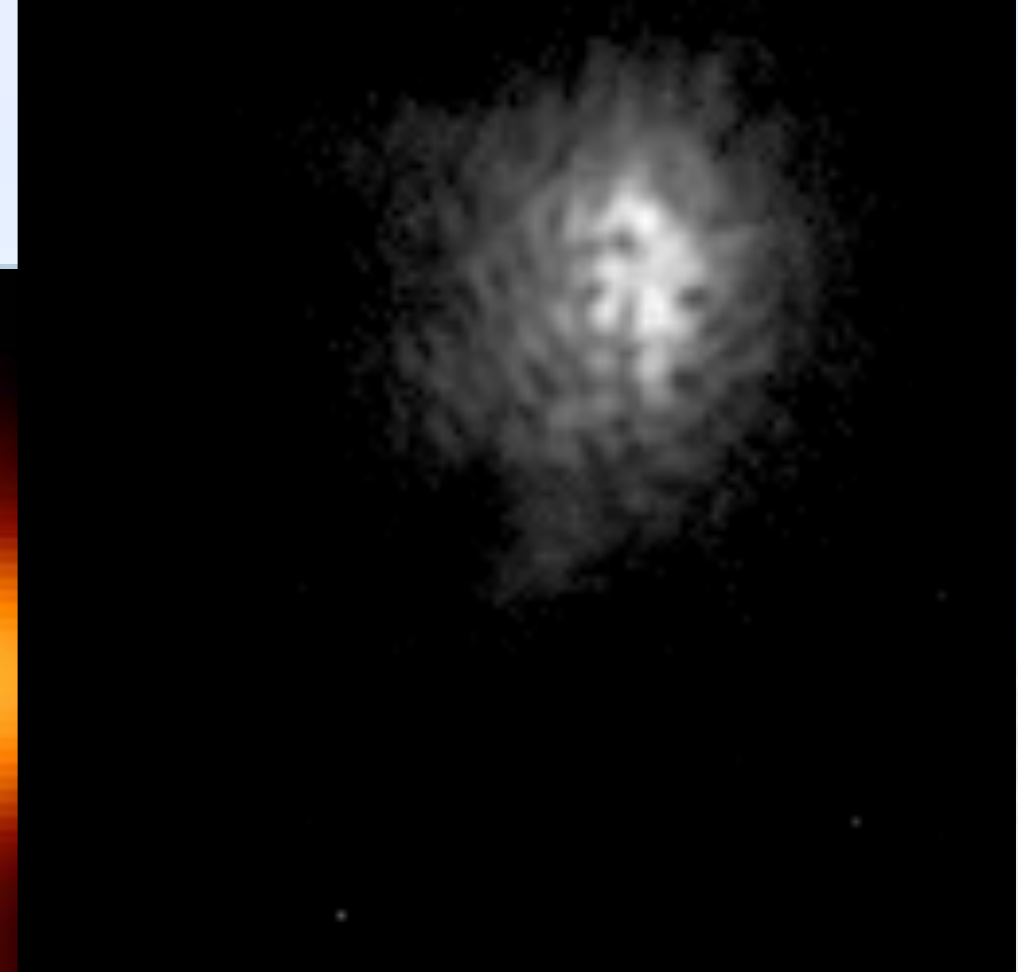
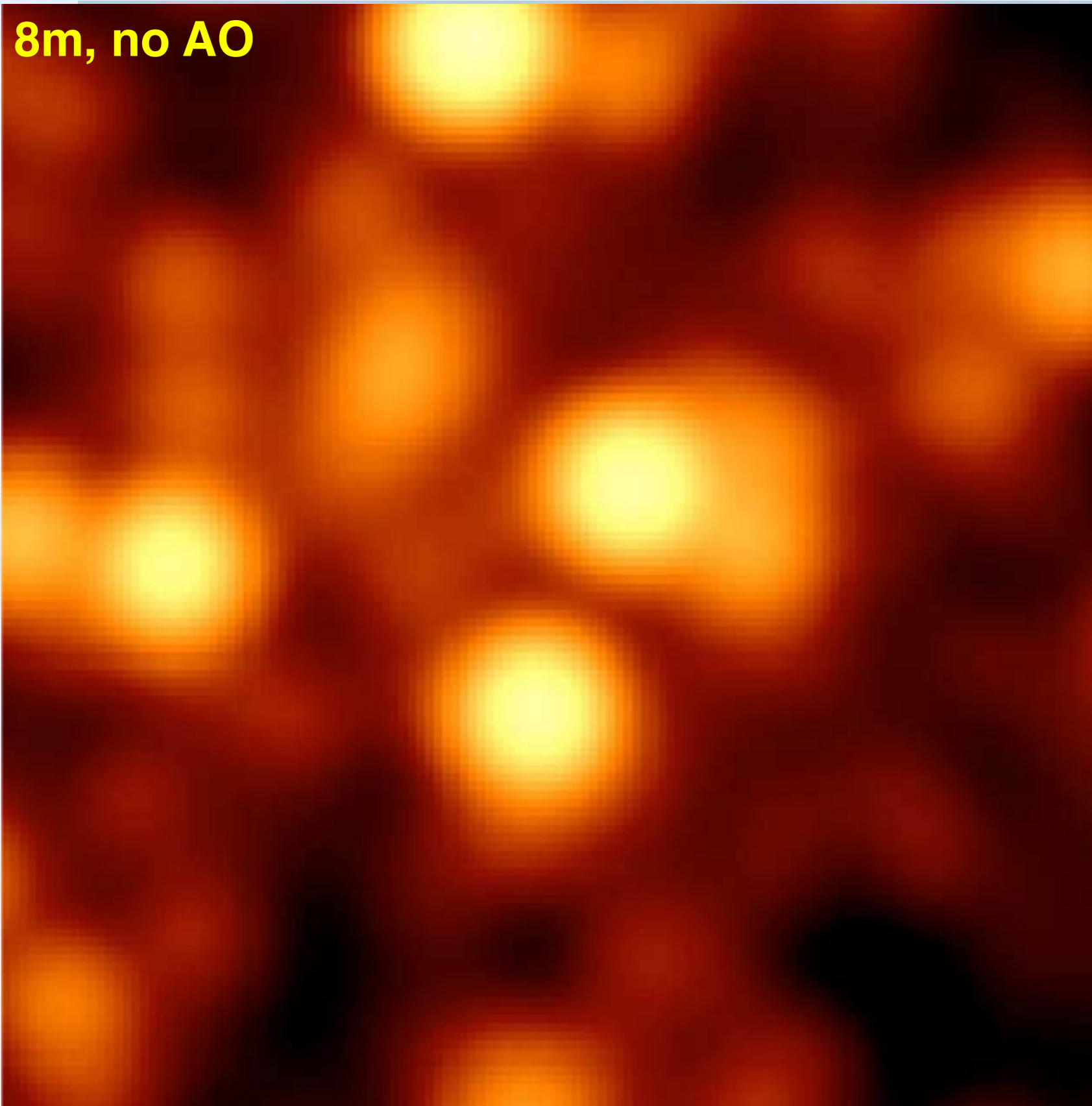
Seeing...

...is believing



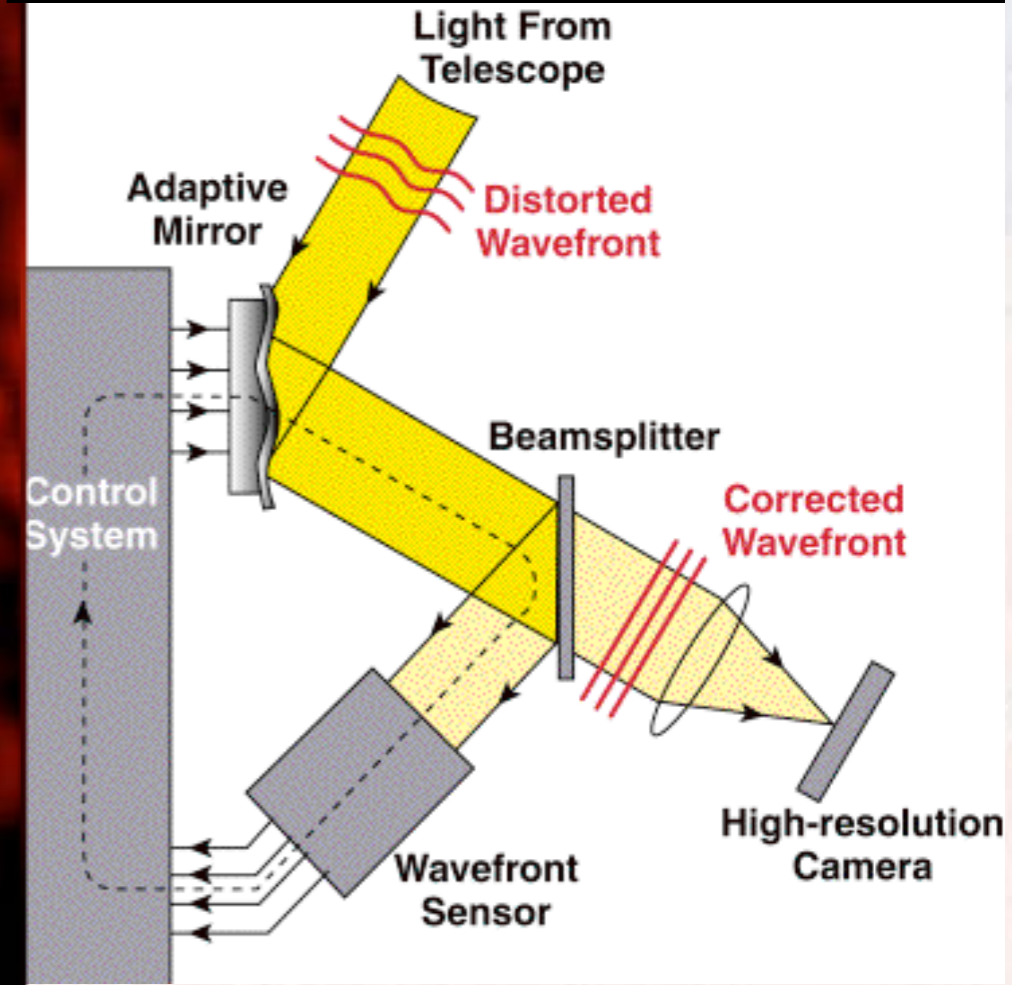
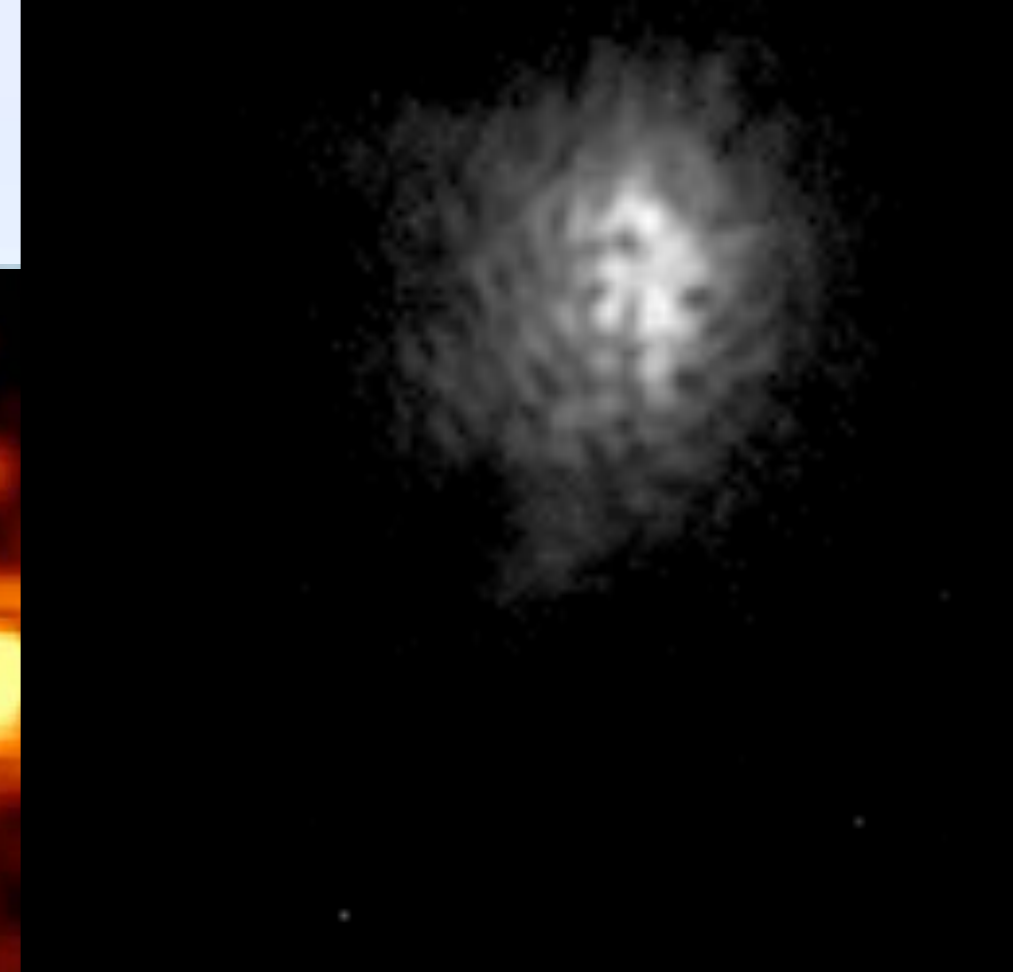
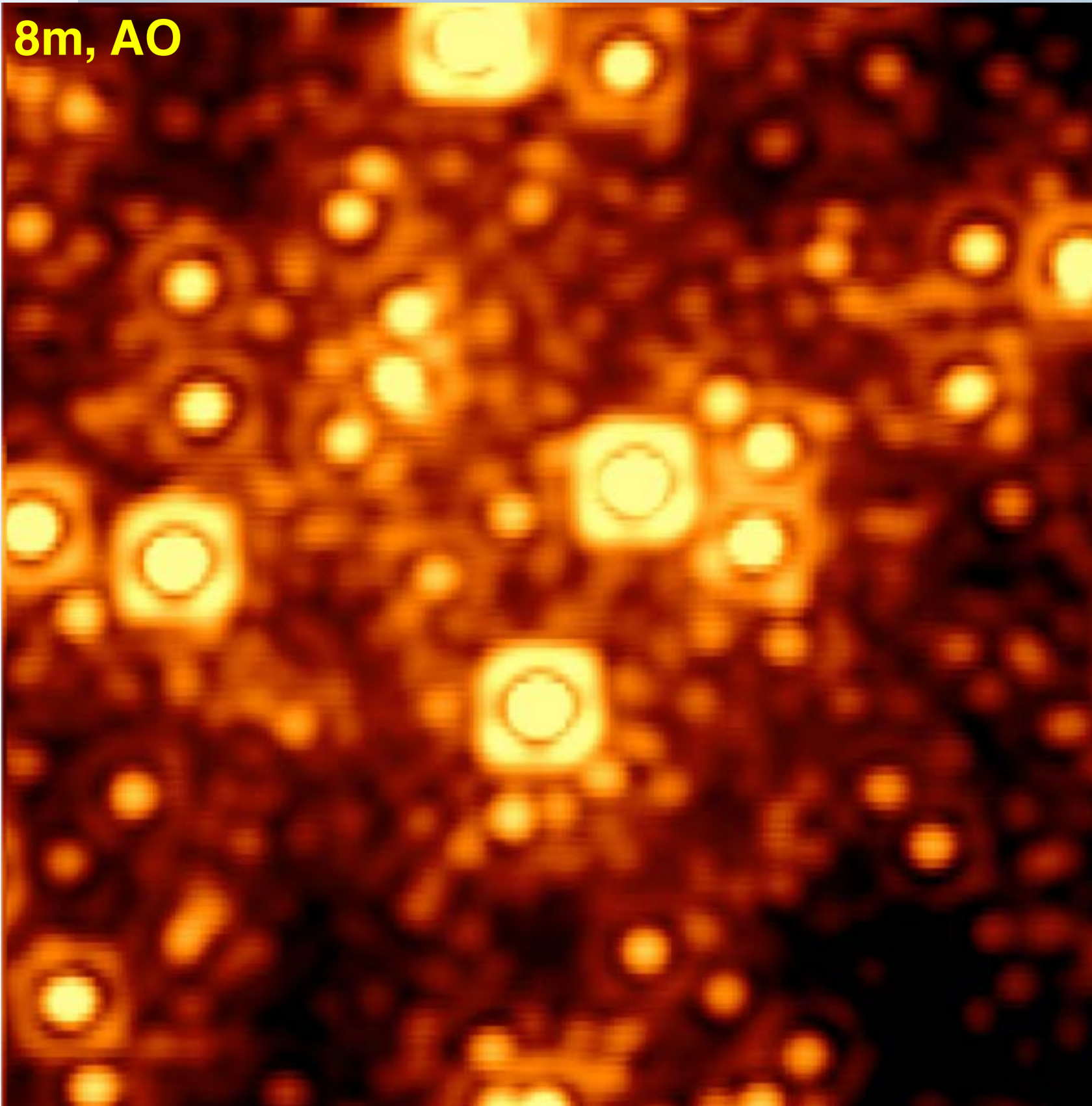
Seeing... ...is believing

8m, no AO



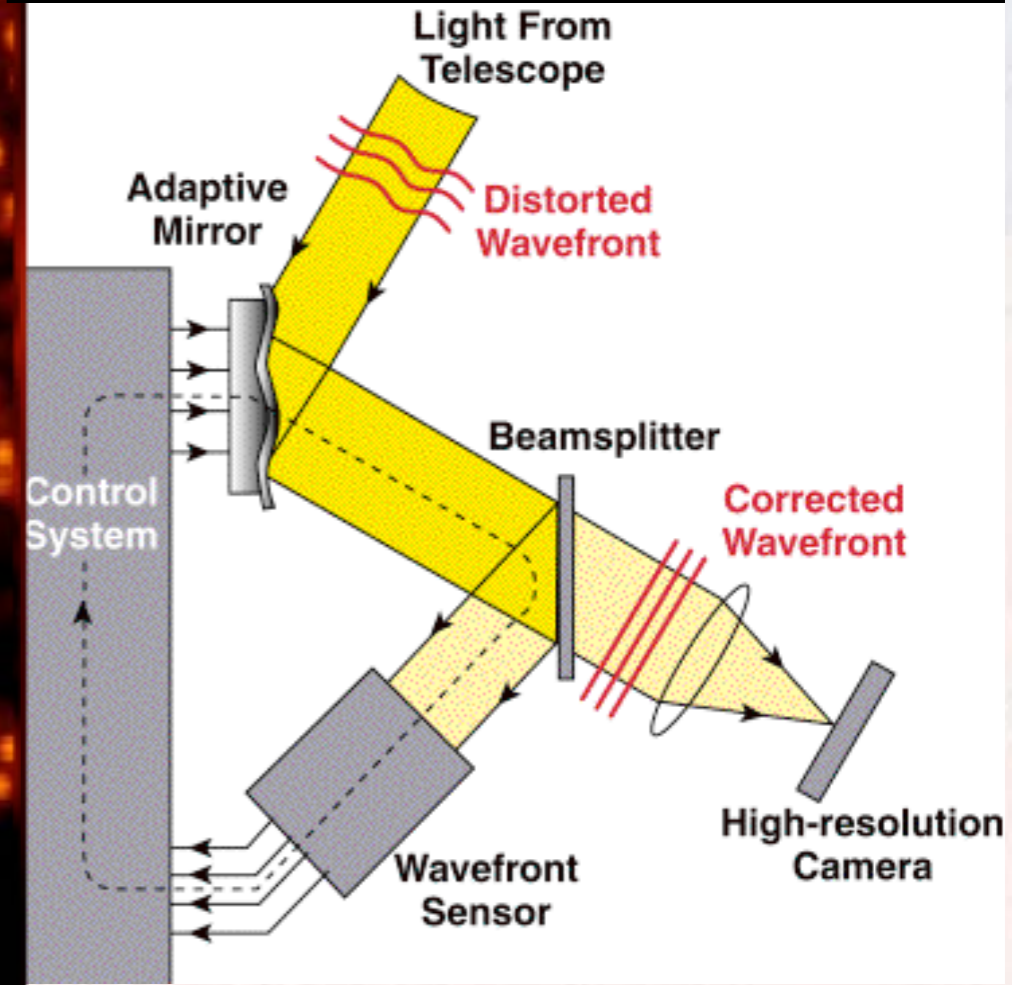
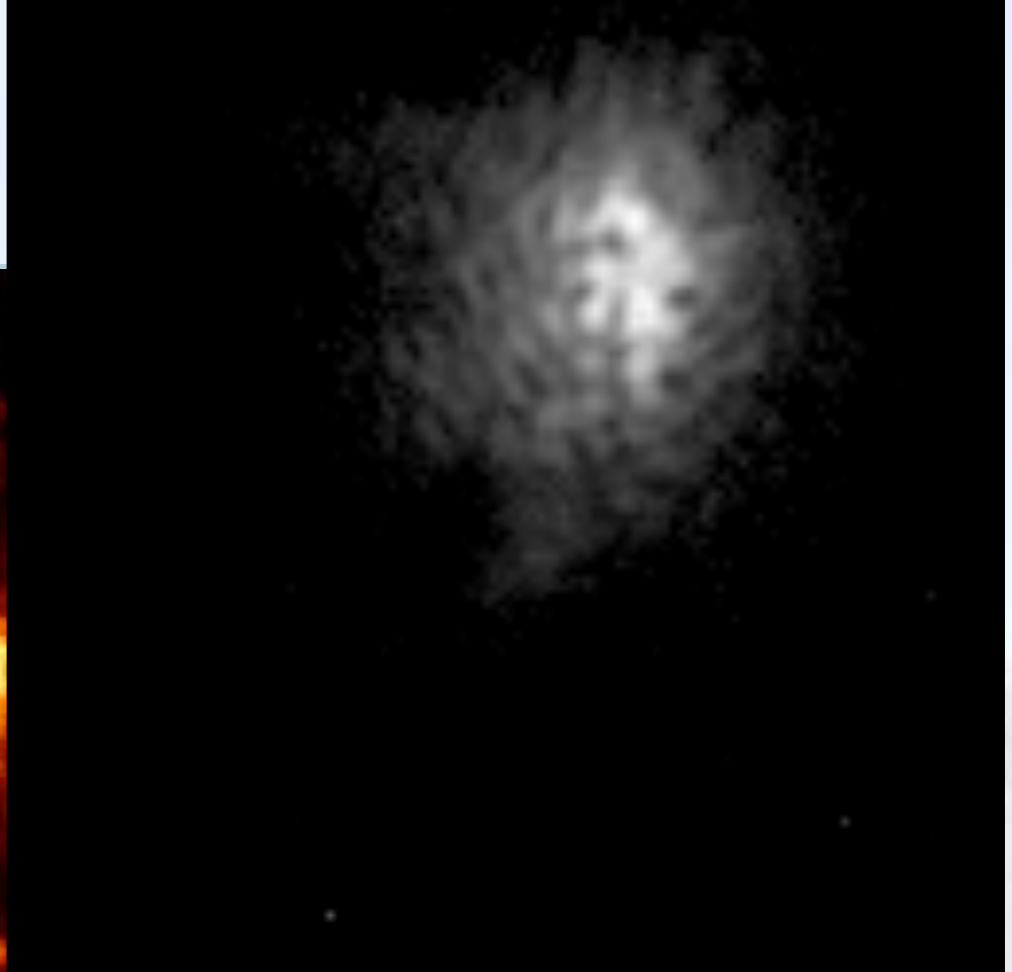
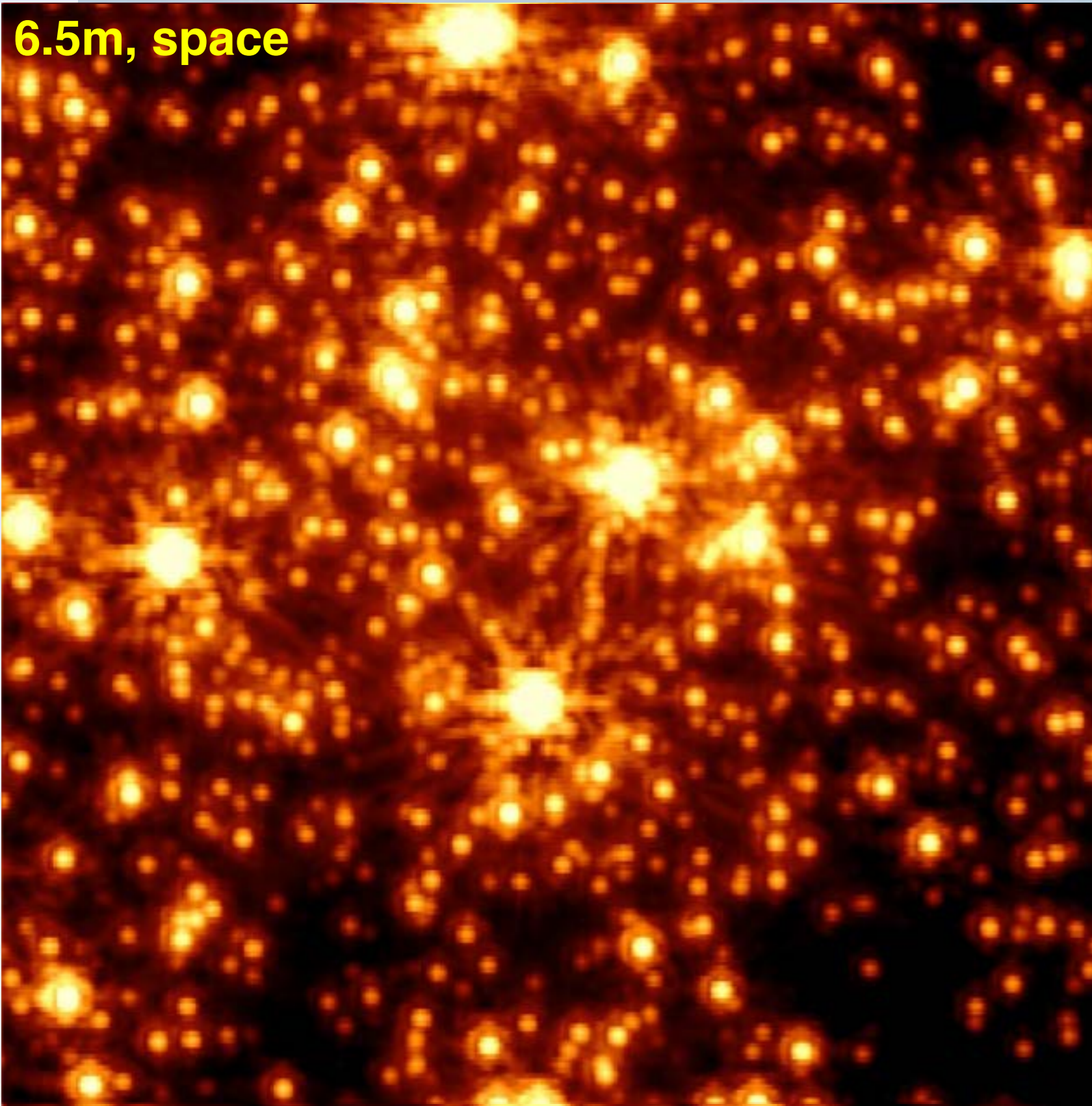
Seeing... ...is believing

8m, AO



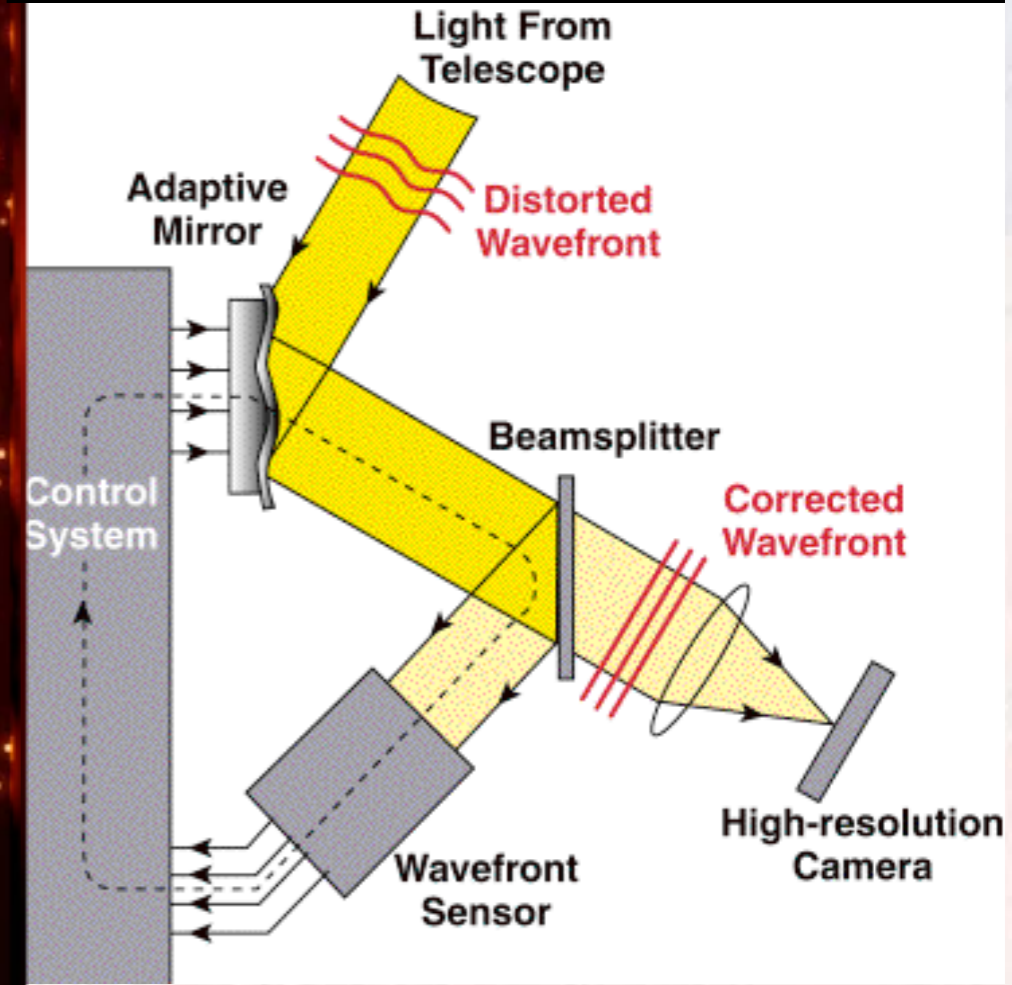
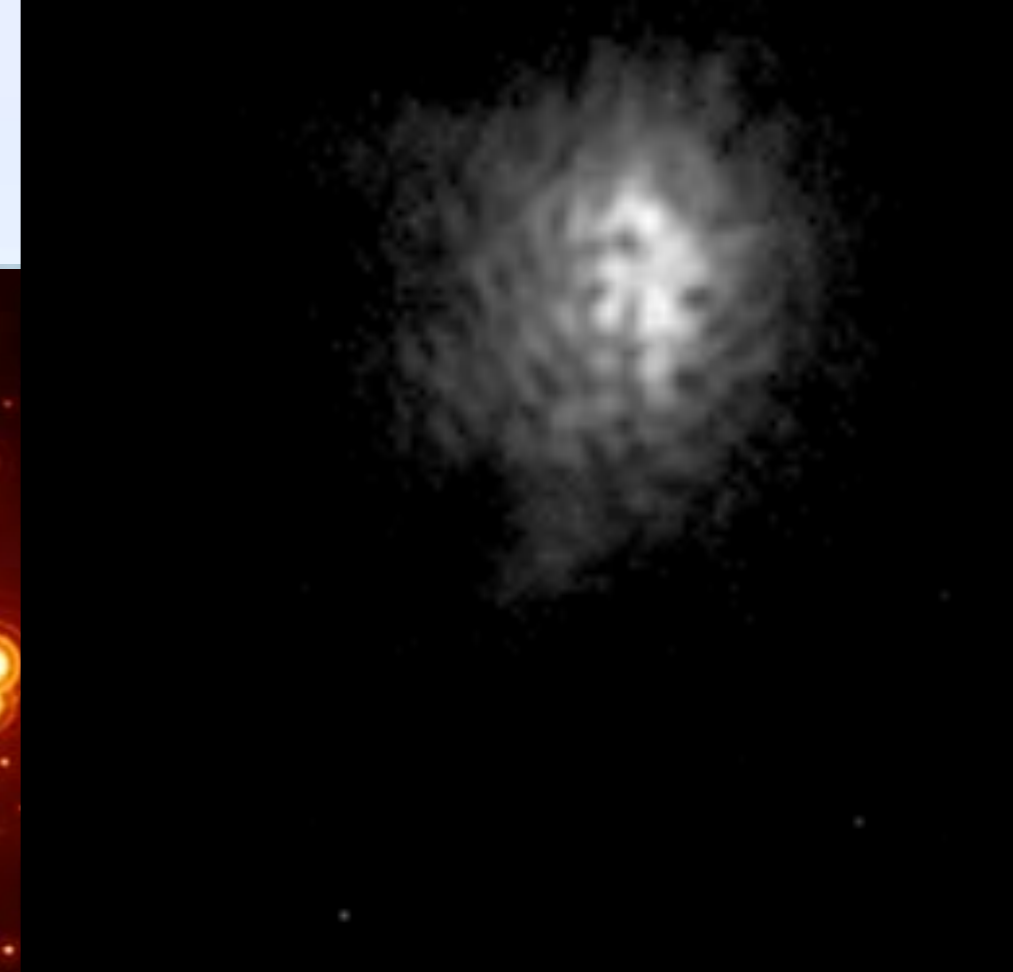
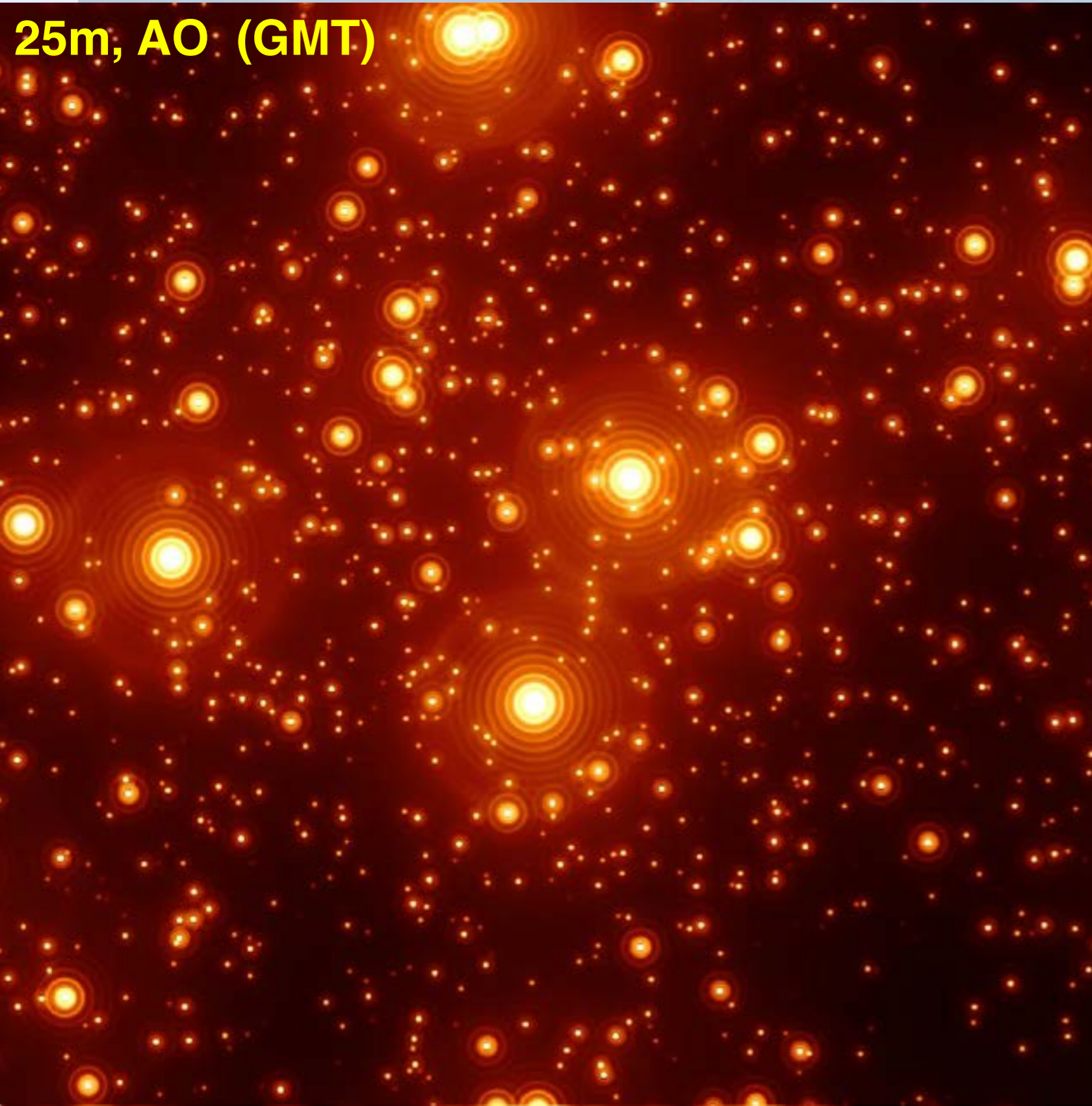
Seeing... ...is believing

6.5m, space



Seeing... ...is believing

25m, AO (GMT)



Space, the final frontier



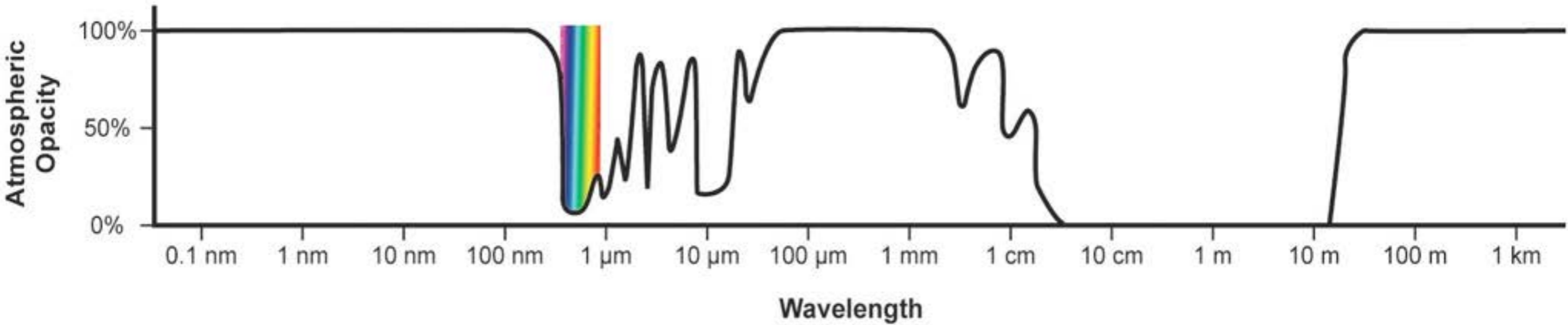
Space, the final frontier

maybe for captain Kirk, but not necessarily for telescopes



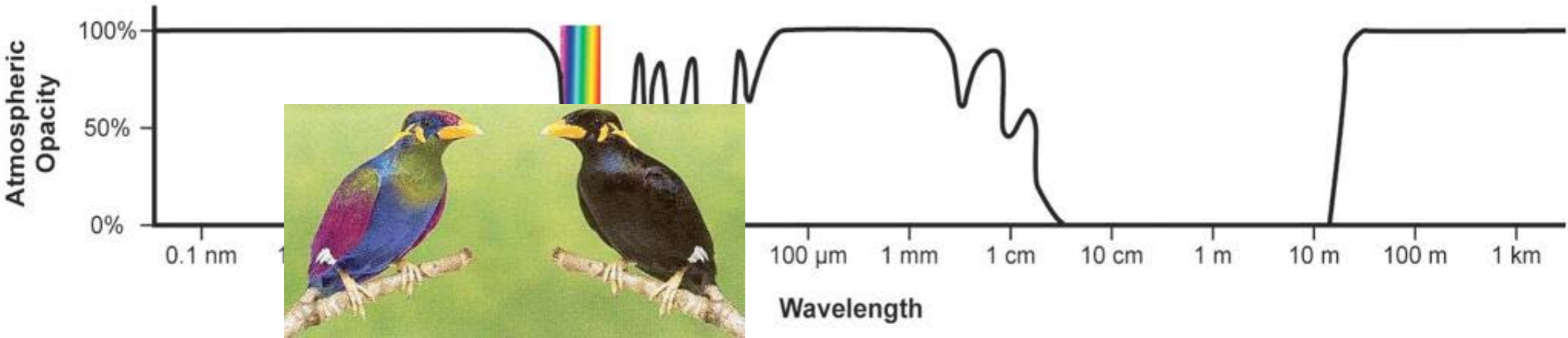
Space, the final frontier

maybe for captain Kirk, but not necessarily for telescopes



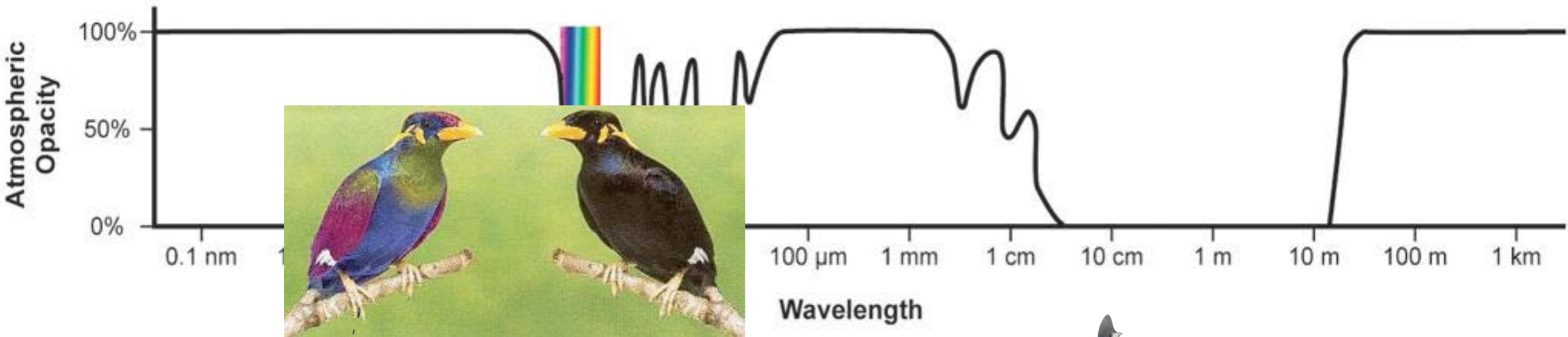
Space, the final frontier

maybe for captain Kirk, but not necessarily for telescopes



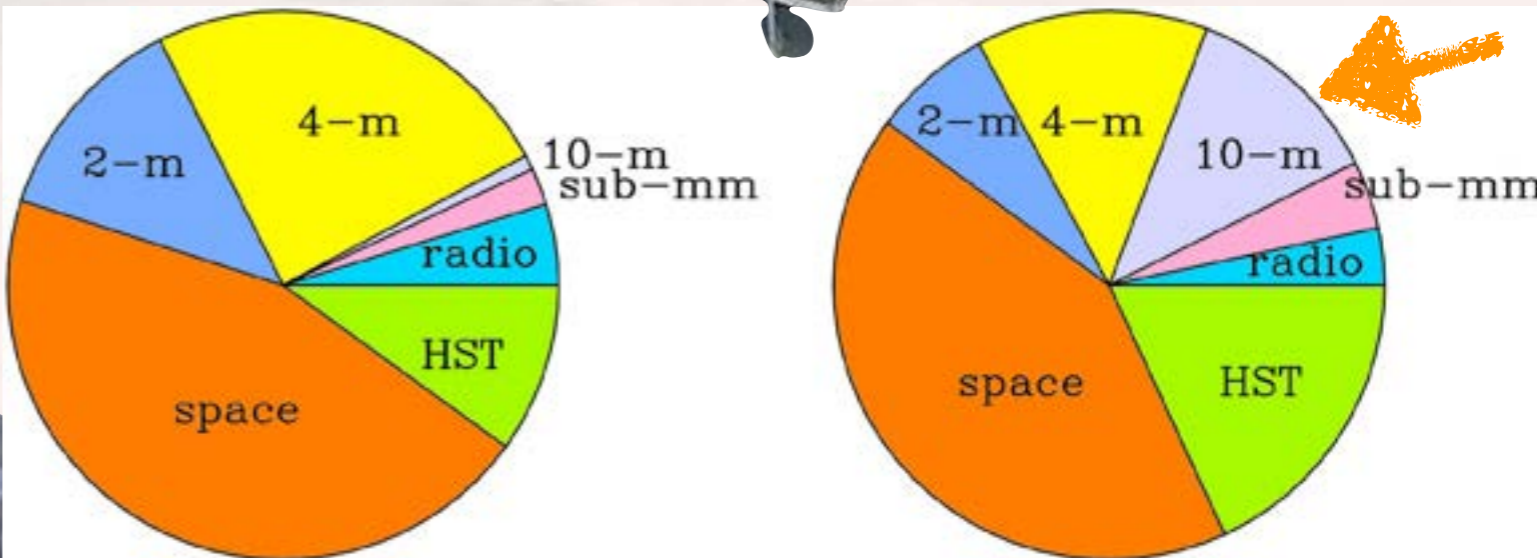
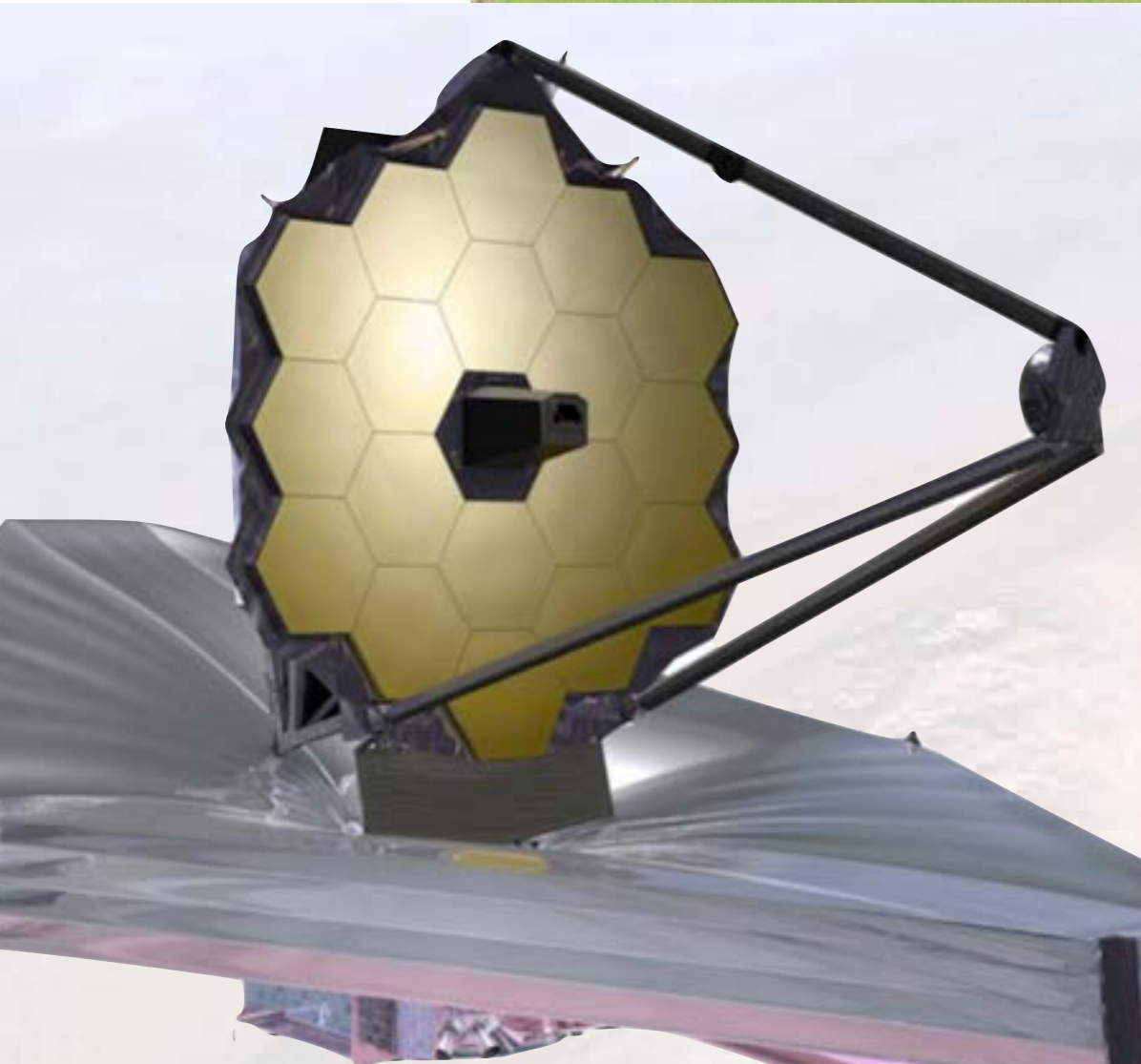
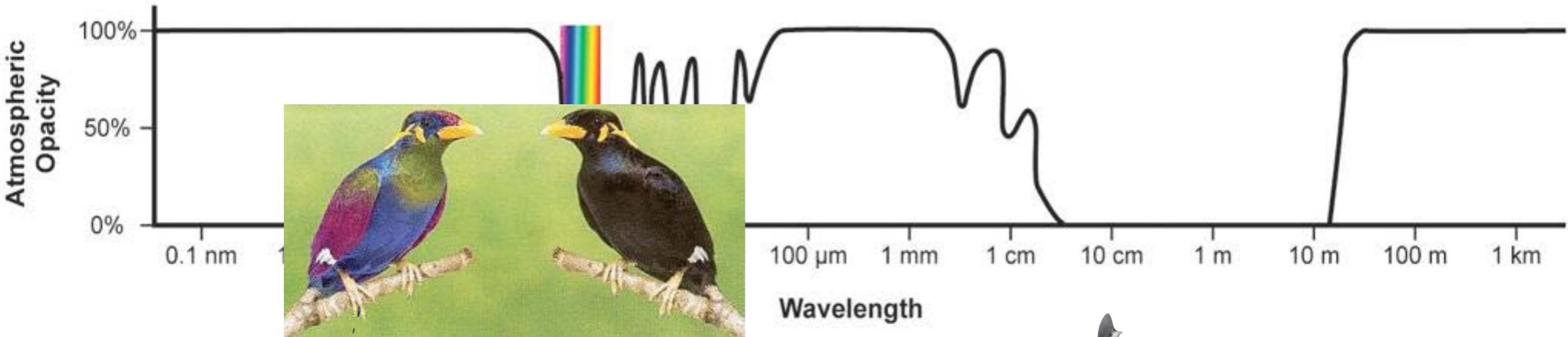
Space, the final frontier

maybe for captain Kirk, but not necessarily for telescopes



Space, the final frontier

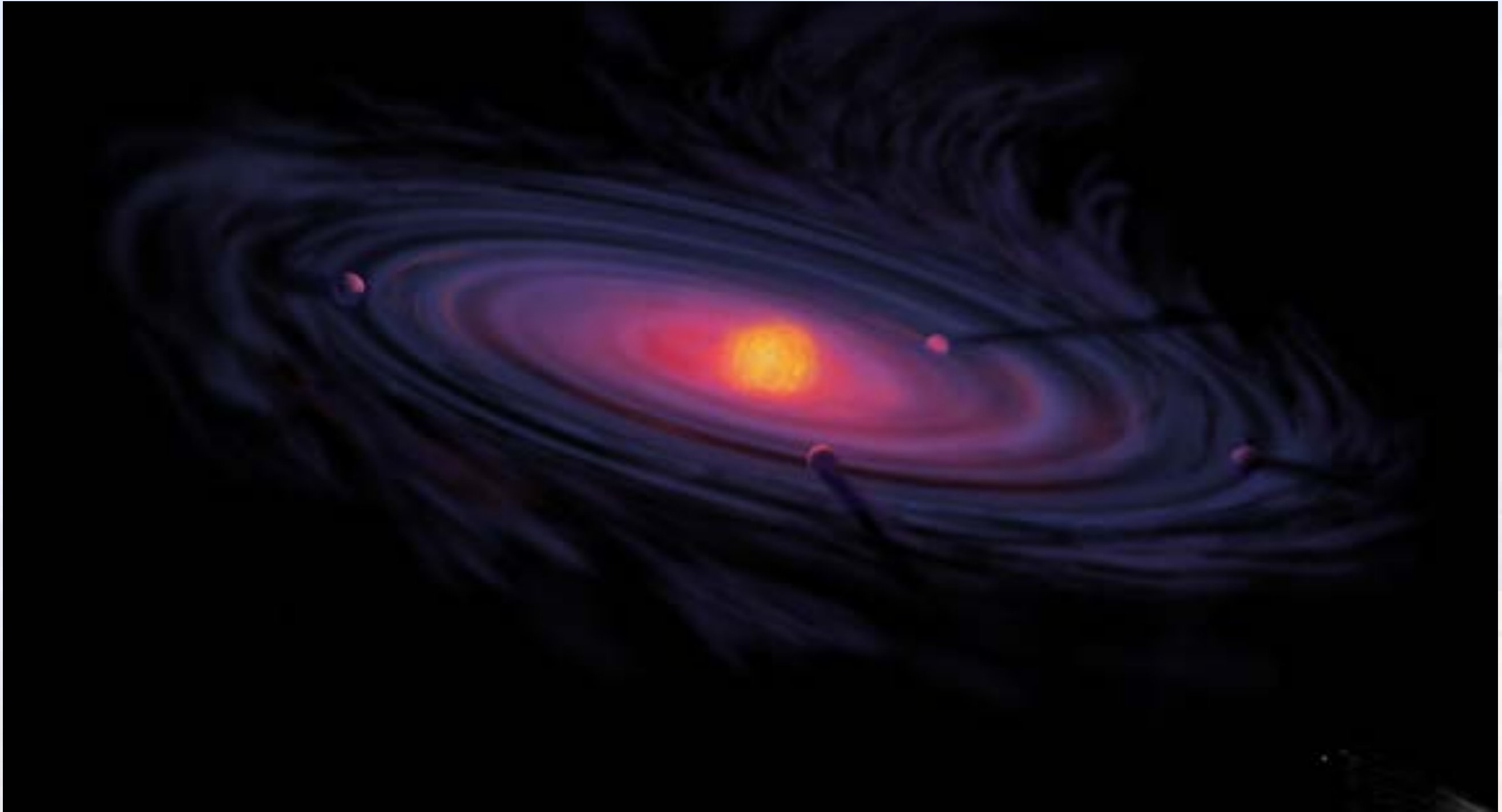
maybe for captain Kirk, but not necessarily for telescopes



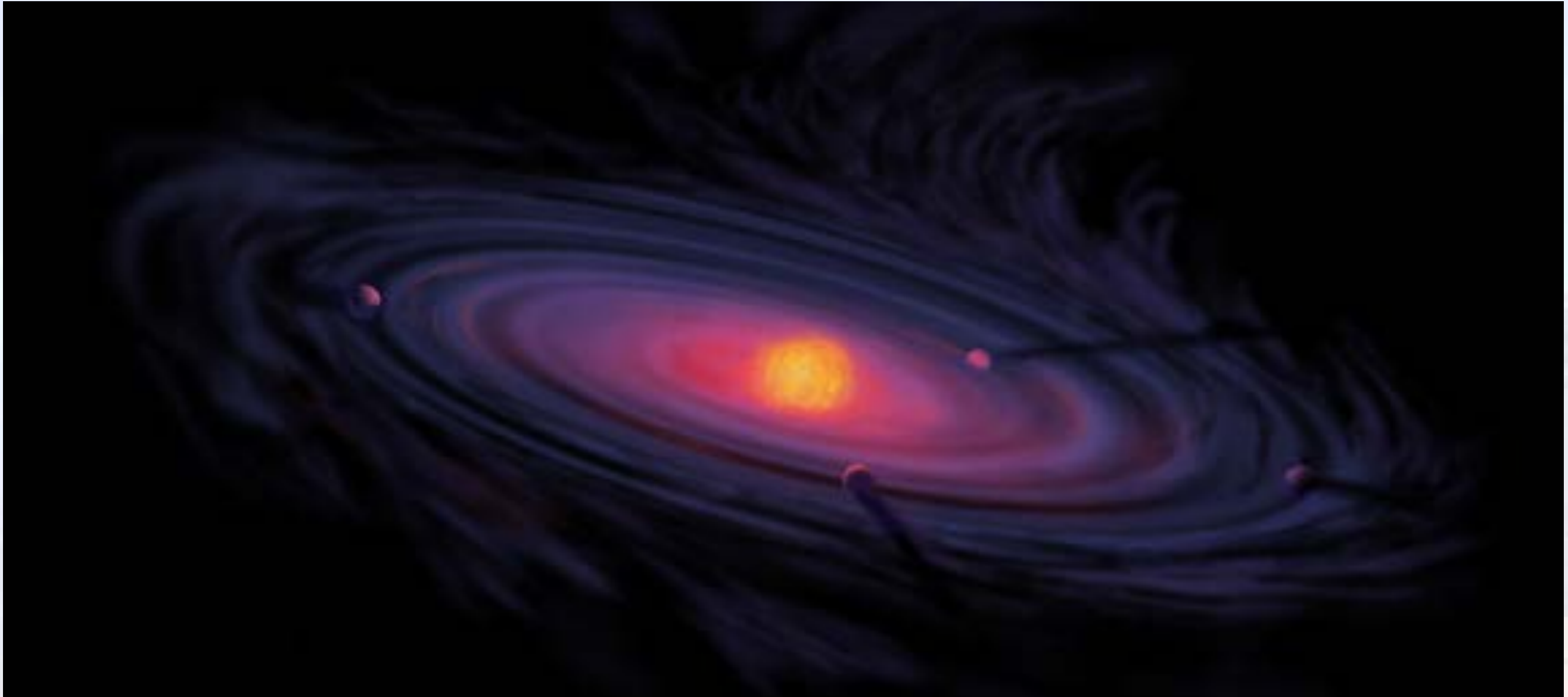
(a) 1991-4

(b) 1995-8

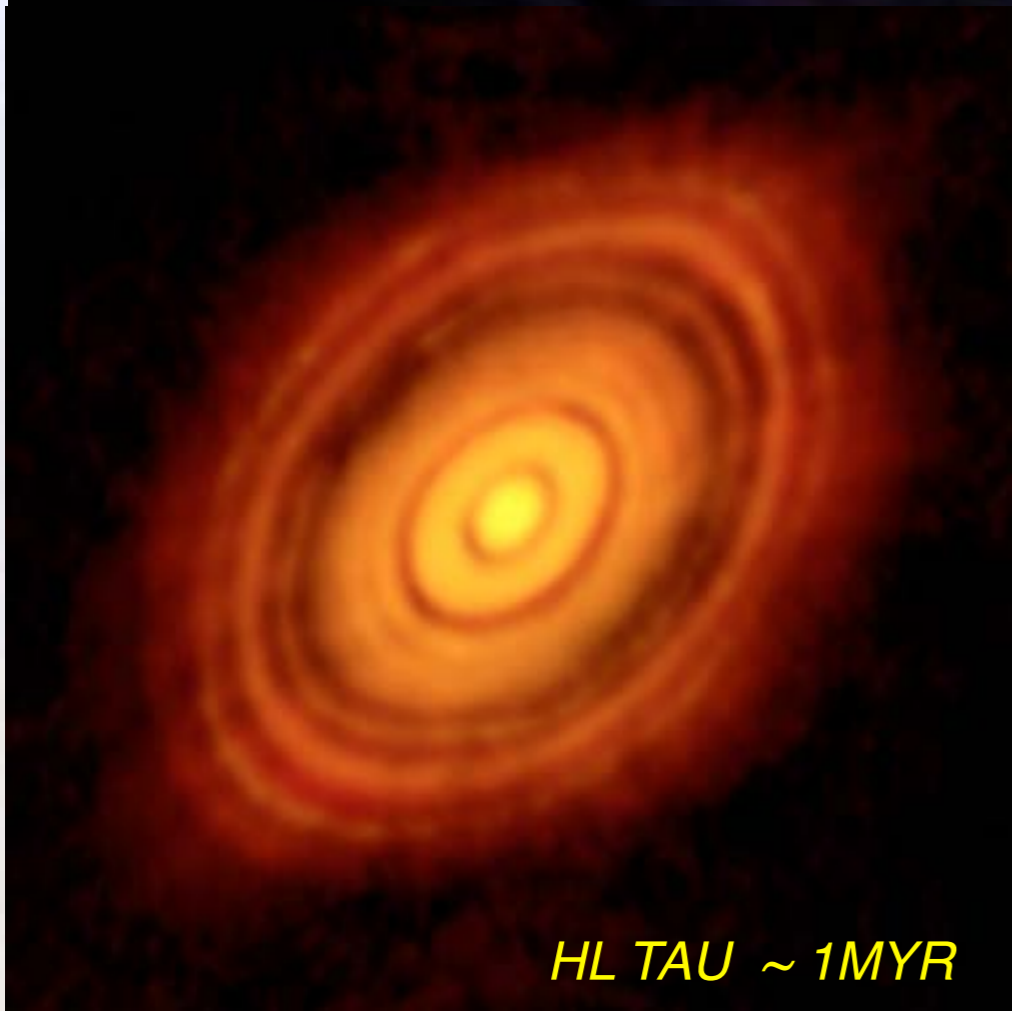
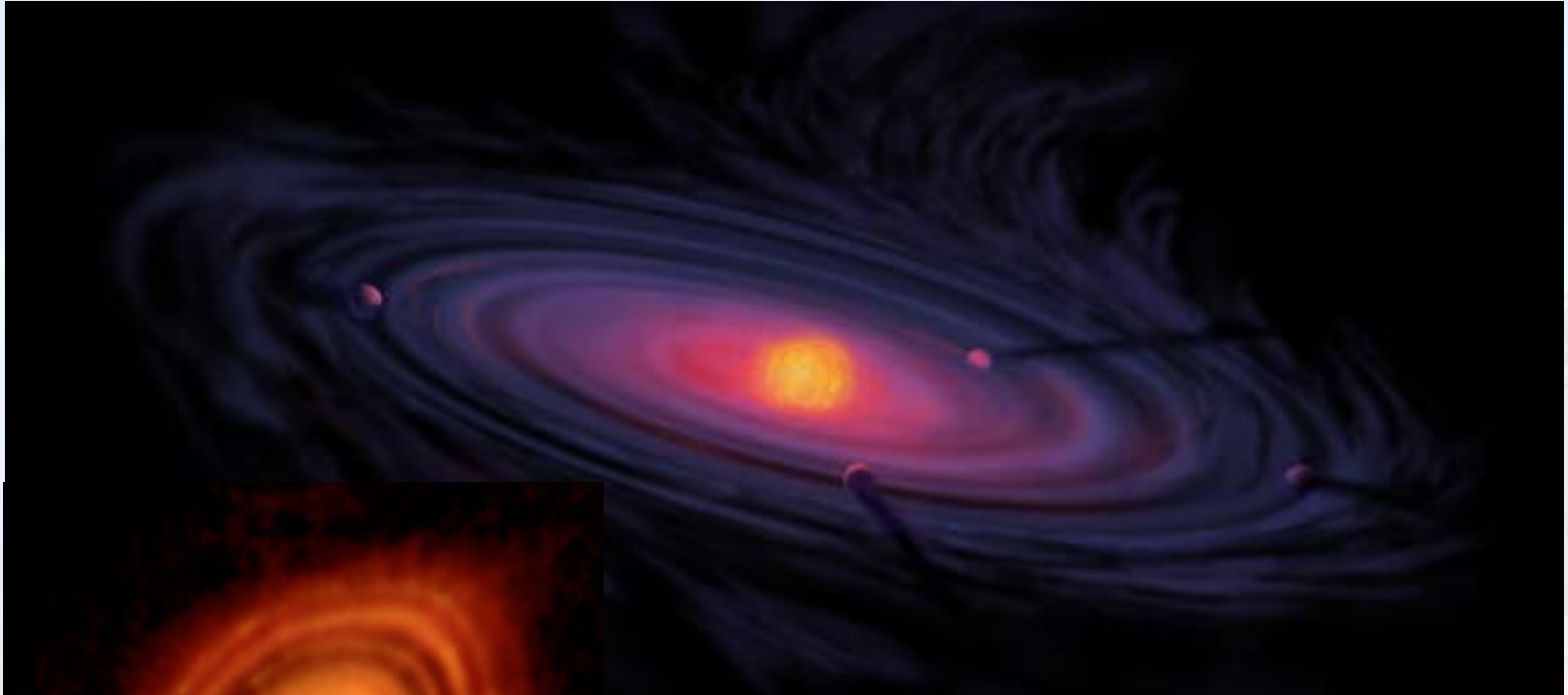
Fiction to Science



Fiction to Science



Fiction to Science



HL TAU ~ 1MYR





