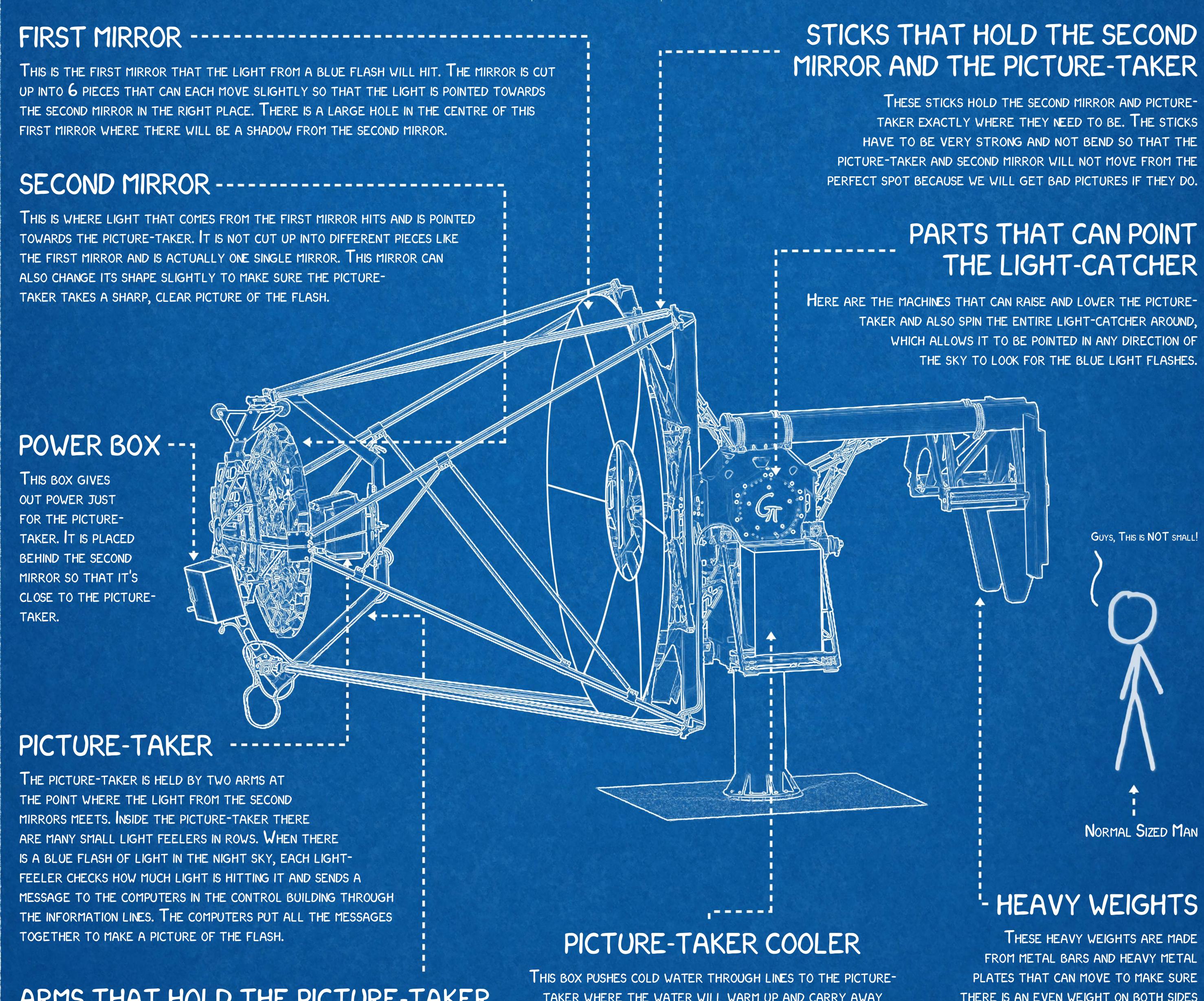
A SMALL SIZE LIGHT-CATCHER EXPLAINED WITH SIMPLE WORDS

WHEN LIGHT CARRYING A LOT OF POWER FROM SPACE HITS THE AIR AROUND THE EARTH, A SPECIAL BLUE FLASH OF LIGHT IS MADE. THIS SMALL SIZE LIGHT-CATCHER WILL LOOK FOR THE BRIGHTEST FLASHES IN THE SKY AS THEY GIVE OUT SO MUCH LIGHT THAT WE ONLY NEED SMALL MIRRORS TO GATHER ENOUGH LIGHT SEE THEM. LARGER LIGHT-CATCHERS CAN GATHER TOO MUCH LIGHT FROM THESE BRIGHT FLASHES AND WILL NOT WORK. HERE A PAIR OF SMALL SIZE MIRRORS POINTS LIGHT TOWARDS A PICTURE-TAKER THAT TAKES PICTURES OF THE BRIGHTEST FLASHES WHICH DO NOT HAPPEN VERY OFTEN. To give us a better chance of seeing these bright flashes, we will build many of these light-catchers over a large area.



ARMS THAT HOLD THE PICTURE-TAKER

THESE ARMS HOLD THE PICTURE-TAKER EXACTLY WHERE THE LIGHT FROM THE SECOND MIRRORS MEETS. THE TOP ARM CAN UNLOCK ALLOWING THE PICTURE-TAKER TO SWING DOWN AND BE REACHED BY WORKERS ON THE GROUND MUCH MORE EASILY.

TAKER WHERE THE WATER WILL WARM UP AND CARRY AWAY SOME OF THE HEAT. THE PICTURE-TAKER GETS WARM BECAUSE IT USES A LOT OF POWER AND BY COOLING IT DOWN WE WILL GET CLEARER PICTURES OF THE BLUE FLASHES.

THERE IS AN EVEN WEIGHT ON BOTH SIDES OF THE MACHINE THAT RAISES AND LOWERS THE PICTURE-TAKER. BY USING THESE HEAVY WEIGHTS, THERE IS LESS WORK PUT ON THE RAISING AND LOWERING MACHINE AND LESS POWER IS NEEDED.

A GROUP OF OVER 1,200 PEOPLE (MOSTLY TEACHERS AT SCHOOLS FOR GROWN UPS) FROM 32 COUNTRIES WHO WANT TO SEE LIGHT FROM SPACE WITH A LOT OF POWER. THEY ARE BUILDING GROUPS OF LIGHT-CATCHERS IN BOTH THE NORTH AND THE SOUTH OF THE EARTH AT VERY DARK PLACES SO IT IS EASIER TO SEE THE SMALL BLUE FLASHES IN THE NIGHT SKY.



cherenkov telescope array

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DATE:

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