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17 October 2004

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02 Ramazan 1425



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*For an astronomer, going to the Canary Islands for a chance to view the outer worlds, it is an experience to remember.*

On the island of La Palma, in the Spanish Canary islands, the geographical identity of the locality is the huge caldera that was formed 500,000 years. Today, the rim of this caldera is populated with instruments that are busy peering out into space in search of numerous answers.

Located in the Atlantic Ocean off the coast of Morocco, I had the opportunity of spending four nights at this astronomers paradise. And there, I gazed out into the open sky through the 2.5 meter Isaac Newton Telescope, one of the ten telescopes located at La Palma. The size denotes to the diameter of the main mirror of the telescope; the bigger the mirror the more powerful is the telescope. The 10 meter Keck telescope is the largest in the world and is located in Hawaii.

In order to get to La Palma, from Amherst, Massachusetts, I had to fly first from Boston to Madrid, then from Madrid to the island of Tenerife, and finally on a small propeller plane to La Palma.

Observatories are usually located in such remote and exotic locations because astronomers seek places that have little or no light pollution, are high-up on the mountain and are close to the ocean. The tall peaks of the mountains provide the necessary dry conditions and the ocean smooths the air that, as a result, improves the quality of pictures taken through the telescope. Thus, volcanic islands, like La Palma and Hawaii, are some of the world's best locations for astronomy and provide astronomers an excuse to visit these visually stunning places.

Before reaching La Palma, I spent a night in Tenerife. I was expecting Tenerife to be a small sleepy island geared solely for entertaining tourists from western Europe. While tourism is indeed one of its main industries, Tenerife turned out to be a busy port with a population of over half a million. I stayed in a small university town, La Laguna, located roughly six kilometres from the capital city of Santa Cruz. It was in Santa Cruz I learnt that, despite its remote location, Tenerife has played its role in history. Lord Nelson (1758-1805) lost his arm

in the Battle for Tenerife in 1797. The guilty cannon has been preserved and is now one of the tourist attractions on the island.

Tenerife also has a footnote in relatively recent Spanish history. General Franco, was in exile on the island, flew from Tenerife to take control of Spanish troops in Morocco, an event that started the bloody Spanish Civil War in 1936, leading ultimately to the Fascist victory in 1939. After staying overnight in Tenerife, I flew to La Palma on a small plane that braved the winds of the Atlantic. Even though the flight lasted only 20 minutes, the turbulence made it seem much longer. Perhaps this is the only occasion when I not only paid attention to the instructions given by the air hostess regarding the life jacket, but also read additional material on plane safety and escape routes. At La Palma airport I was relieved to see a smiling taxi driver holding a sign of the telescope with my name on it.

La Palma is a small island with a population of roughly 80,000. This volcanic island is the youngest amongst the Canary Islands and is still geologically active. I don't think I felt completely reassured to know that the last major volcanic eruption on the island occurred in 1971. The landscape of the island is dominated by the Caldera of Taburiente, formed by the collapse of the primary volcano. The rim of the caldera, roughly 10,000 feet above sea level, was my destination. The road up the mountain had endless twists and turns and the landscape changed dramatically in the hour long drive from the airport to the observatory. The sights and sound of waves crashing on the beach gave way to our passage through a forest of dense pine trees leading up to an almost barren top. Reflection of sunlight from one of the telescope domes provided the first greeting from the observatory and the secrets of the night sky seemed safely hidden in the stunningly beautiful dark-blue sky.

The taxi dropped me at the residential area for astronomers which is like a small hostel with a cafeteria. My telescope was located a few kilometres away but I could see its dome from the window of my room. I was given keys to a car and my first afternoon was spent checking instruments at the telescope. Everything was ready now. All I had to do was wait for the Sun to go down. Meal times at observatories are dictated by the Sun. Dinner is usually served two hours before the sunset. Fish was on the menu for the first night. I got my plate and looked for a table with English conversation; this is usually the table of astronomers. It is exciting to meet astronomers from all over the world and to learn about their research. The astronomer sitting next to me had flown from England and was working on galaxies that formed when our universe was "only" a billion years old. A Dutch astronomer was searching for exploding stars in nearby galaxies, while giant eruptions from stars was the interest of another. The conversation at dinner ranged from the latest science results to politics and local culture. Now we were all ready to go to our respective telescopes.

After dinner I waited outside for the sky to get dark. My mind wandered off thinking about the indigenous people that lived here several centuries ago and how they would have looked up and interpreted the sky. La Palma (and the other Canary Islands) were first settled by native Canarians, called Gauches, whose origin is still controversial. Gauches are now extinct, but are thought to be an offshoot of the race of Berbers from northern Africa. The Spanish conquest of the Canary Islands began in 1402 and went on until 1496. Despite having enormous technological advantage, the Spanish Conquistadors faced stiff resistance from the natives, in particular from legendary Tanausu, who ruled the Kingdom of Acero on the island of La Palma. Tanausu fought from the base of the Caldera and was finally defeated with treachery in 1493. The sight of a majestic sunset brought me back to the present.

Earth's rotation was taking the rays of the Sun away from the Earth. A layer of clouds could be seen covering the ocean below us. Like the eyes of a giant but curious beast, I could see the slits of the neighbouring telescope domes open up.

I pointed my telescope first at a galaxy named NGC 210, the two hundred and tenth object in the New General Catalogue of Galaxies. Apart from a few nearby galaxies, most galaxies have numerical numbers assigned to them. Still, that does not take away the majesty of an individual galaxy containing roughly a hundred billion stars. I am searching for new born stars in some of these galaxies. My journey to the Canary Islands took only two days from Massachusetts, but the light photons hitting the mirror of the telescope, in the case of NGC

210, started their journey 17 million years ago. The light has taken so long to get to us that some of the stars are probably already dead but we are just getting the news of their birth!

After taking several images of NGC 210, I turned my attention to NGC 660 followed by other galaxies.

The first night went about smoothly and my work was interrupted only by the increasing brightness of the sky due to dawn. I closed the telescope dome and walked outside to look at the caldera. Inside the caldera stands the monolith Idafe, an altar for the original indigenous people to worship their god Abora. I could not help but wonder if in our quest to understand our origins, the telescopes are the new altars for humanity.



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