

14. What does the word “ceremony” mean?

- (A) 雕塑 (B) 典禮儀式 (C) 旅行 (D) 反映

15. What is the meaning of the word “Jewish”?

- (A) 猶太教的 (B) 天主教的 (C) 基督教的 (D) 回教的

On October 9, 2023, Triton, the first weather satellite made in Taiwan successfully entered space. It is also the fourth satellite in the world to use GNSS-R instrument to collect data. Its purpose is to help us to predict the weather more **accurately**.

This satellite is named after Triton, an ancient Greek god of the sea. The sea god commands the waves and wind. The satellite Triton is able to gather such data as sea wind speeds and wave heights. Triton uses a technique which collects signals **reflected** from the Earth’s surface. It carries GNSS-R instrument to receive signals that are sent back from sea surfaces. The calmer the sea, the stronger the signal, indicating weaker winds. The information is valuable as wind speed data is difficult to collect. Such information improves the prediction of typhoon movements and strengths. Triton observes weather changes mainly in the Indian Ocean, central Pacific Ocean, and Atlantic Ocean.

Triton, began in 2014, is the fruitful cooperation between Taiwan Space Agency (TASA) and local companies. TASA developed GNSS-R instrument and key components such as the GPS Receiver and Onboard Computer. More than 20 local research groups and manufacturers took part in developing the ground station equipment. The satellite is 82% produced and developed in Taiwan.

Now that Triton is in space, we can expect it to support disaster prevention and offer more accurate information. The success of Triton contributes to global weather forecasting. It is also an important step forward for Taiwan’s space engineering.

16. What is this passage mainly about?

- (A) Challenges of space engineering in Taiwan. (B) The description of the Greek sea god Triton.
(C) Differences in weather forecasting techniques. (D) The introduction of a weather satellite in Taiwan.

17. Which is closest in meaning to “**reflected**” in the second paragraph?

- (A) looked into (B) made of (C) sent back (D) named after

18. According to this passage, which of the following statements is not true?

- (A) Triton began collecting wind speed data before 2014. (B) All of Triton was produced and developed in Taiwan. (C) Triton shows the improvement in Taiwan’s space skills. (D) Fewer than 20 local companies worked on the Triton project.

19. Which of the following can be inferred from this passage about the contribution of Triton”?

- (A) It helps to reduce damage caused by bad weather. (B) It improves the strength and speed of typhoons. (C) It connects the Indian Ocean and Atlantic Ocean. (D) It measures the heights of satellites from sea surfaces.

20. What does the word “**accurately**” mean?

- (A) 簡短地 (B) 溫柔地 (C) 精確地 (D) 大約地

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