教您辨識南十字星座到墾丁騰星星

學丁寶日银河/陳島登攝 Konting's elimmer Mility Way / Photo by Pal fell Chen

Come to Kenting for a Starlight Shower

How to Identity the Southern Cross

□ 持宗
漸入夏・落山風遠離了恒春半島・五月的難丁 在春雨海淋下・大地重披壁線青衫・天地一片明 淨・入夜後的晴日・璀燦星空以透射人心的晶光・為大 地與萬物編繪等的起航。

夜觀星斗,最好毒找一處視野空間、無空氣污染也無 光霄的所在,氣候當暖、酒風珍珠的難丁,正是體驗被 星子包圍嚴理想的去處。倘若沒有體驗過變丁以海壽與 蟲聲為配樂的動人星空,那真可與你不算閱職變丁呢! 為了引導國人體驗國家公園獨特的明淨天空、認識在雙 丁升起的南十字座,以及提醒大家珍惜少光害,無空氣 污染的觀星環境,雙丁國家公園管理處今年5月24日舉 號一處「南十字星光幫」觀星活動,活動地點在锚暴頭 公園。 Summer is arriving, and mountain tempests have left Hergchun Peninsula. Cleansed by the spring shower, Kenting in May is covered in green and a bright sky. On a clear night, the dazzling stars shine upon us and mark the dreamy voyage for planet earth and all its residents.

The place for stargazing should be broad and free of air or light pollution. Having a warm climate and cool sea breezes, Kenting is the perfect place for you to be surrounded by staright and the sound of the sea and insects. In order to ensure KTNP's unique sky remains clear for stargazing and viewing the Southern Cross constellation, and to remind the public to keep the sky free of light pollution, KTNP held the "Southern Cross Star Show" in Maobitou Park on May 24.

福興到公園位於台灣西南開的岬角,這個岬角正好勢 開台灣海峽與巴土海峽,岬上天風自在,星垂平野,候 馬去來,四季蟲竭,是雙丁地區接往觀星地點之一,雙 丁國家公園管理協在此學歌觀里送動已有多年。尤其猫 暴頭面、南方向皆為浩稳汪洋,觀看升空高度癥低的南 十字確,自然是絕外位置。

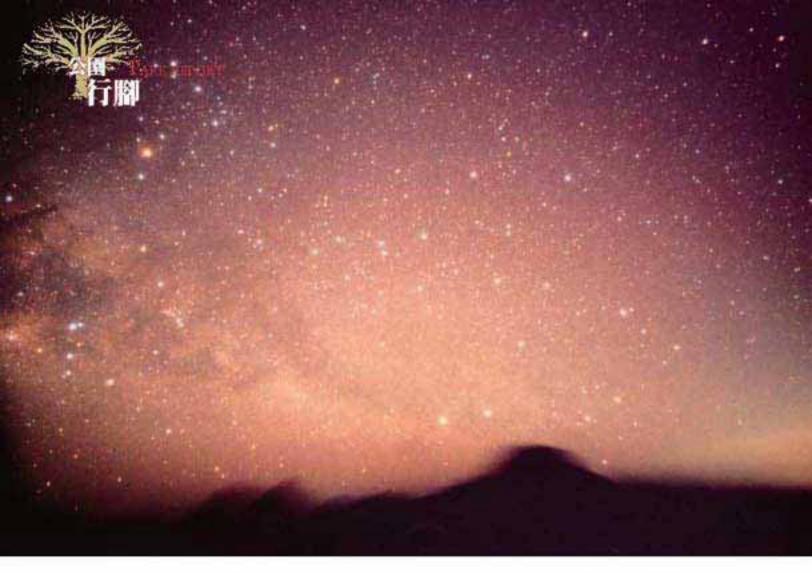
台灣的緯度恰是觀看兩十字的北限。高腳上施清楚 欣賞這個星座的地方,只有高山和聲丁地區。4至6月 是觀看兩十字的最佳時節。但因兩十字在天球上的位置 非常偏兩。自地平線升起至傾斜西沈的時間僅2個多小 時,觀星者必須準確的把握時間(4月:號間11時左右。 5月。號間9點左右。6月。天色暗後),「南十字星光幫」 活動除了建民衆有緣聯絡、欣賞這個特別的星座,也讓 大家——辨識眷裏之間的滿天星斗。

國為地球自轉與公轉的緣故, 夜空里子有學節性的移 轉,所以人們在不同學節裡見到的星星也不盡相同,每 天晚上9時左右,我們預賈正上方出現的那些星座,便 是當學星座,但這並不表示每個夜晚我們只能看見當學 星座,以實學為例,日落後仍可在西方看見一些春季星 座,近午夜時,秋季星座也會自東方逐漸升起,甚至在 凌晨,可以在東方看見部分冬季星座。 Macbitou Park is boated in the cape in the southwestern tip of Taiwan. This cape separates Taiwan Strait and Bashi Strait, and it is a place with cool wind and wildlife, making it one of the period places for stargading. KTNP has held stargading activities here for many years, and the west and southlends of Mactoubi all face the sea, which are great for viewing the Southern Cross that hangs at a lower attitude.

Tawan is located at the northmost latitude where the Southern Gross could still be seen in the northern hemisphere, and the only places on this island where this constellation can be seen are mountains and Kenting. The best sesson to see the constellation is from April to June, since the Southern Gross is at the southern end of the celestial sphere, it only stays above the horizon for 2 hours (April: 11 pm.; May: 9pm, June: after sunset). The Southern Cross Star Show is also an chance for the public to see the starts in the spring and summer seasons.

Due to earth's rotation and revolution, the stars shift seasonally, resulting in different stars to be seen in different seasons. The constellations we see at around 9pm are the seasonal ones, but it doesn't mean we can see them every single right. Take summer for example, some spring constellations could still be seen to the west after sunset, and autumn constellations may rise from the east around midnight. Certain winter constellations could even be seen to the east during early morning.





「南十字星光幫」活動當天除了南十字座,還可欣賞到 北斗七星、大縣、小麟、天龍、獅子、巨蟹、牧夫、室 女、鳥鴉、半人馬、武仙、蛇夫、天琴等星座,10點過 後,與體的夏日銀河也會升上天空。

星座均由閃爍的恆星組成,但在滿天星子中,有少數 緩積星是亮而不閃爍的,這緩類星星以穩定的鲜光主視 蓄大地,星座盤上找不到它們。亮而不閃爍、星座盤上 無法查到,那就是行星了。今年5月下旬的夜空中,可 以看見水星、火星及土星分別運行於金牛座。巨蟹座及 獅子座。依照往例,雙丁國家公園管理處的解說人員在 星空下架起天又望遠鏡,讓民衆觀看美麗神妙的土星光 環。 Besides the Southern Cross, other constellations that can be seen during the event include the Big Dipper, Usa Major, Ursa Minor, Diaco, Leo, Cancer, Heidsman, Virgo, Corvus Corax, Centaurus, Heidules, Ophiuchus, and Lyra, and summer Milky Way after 10 pm.

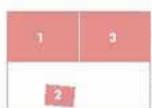
Constellations are comprised of gittering, fixed stars, but a few of them do not glitter and cannot be found on the constellation map, and they are known as "planets." In the starry night after mid-May, you will see Mercury, Mars, and Saturn moving near Taurus, Cancer, and Leo. As always, the guides in KTNP will set up telescopes for the public to gaze upon Saturn's beautiful and mysterious ring.





南十字,可說是雙丁的代表星座。這個星座主要由上下左右4顆星星組成,將上、下2顆星的連線延長5倍,可找到南極點。北半球以北極星確認方位,南半球則靠南十字導脈。這個南半球的指極星座,在台灣平地只有雙丁地區可以清楚看見,當人們以接近平視的角度看見它垂掛海面時,都顯得極為興奮。如何找到這個星座呢!可以試試這2種方法。一種是先找到北極星,面對它即朝向正北,再同後轉180度,圍朝正南,在近地平線或海平面處可以找到南十字。另一種方法是先找到南方地平線上半人馬座的2顆亮星——南門2和馬鹿1(春夏的南方星空就這2類星最亮),再將兩顆星相聯往南延伸找到南十字。當然,還有一種更直接的方法,就是到鹽丁參加國家公園舉辦的觀星活動,讓解說人員引領你尋找。

The Southern Cross is the symbol of Kenting. This constellation is consisted of four stars at the top, bottom, left, and right. By extending the distance between the top and the bottom stals five times, you can find the South Pole. The North Star guides the direction in the northern hemisphere. and the southern counterpart is the Southern Cross, and Kenting is the only place in Tawan's level grounds to see the constellation. Those who get to see it hanging above sea are very excited, but how do we find it? Try these two methods: 1. Find the North Star, which points out the true north. Turn 180 degrees so you face the true south, and look for the Southern Cross near the horizon or sea level. 2. Find the two bright stars in Centaurus above the southern horizon - alpha and beta Centauri (which are the two brightest stars in the southern sky in spring/summer), connect the two and extend southward to find the Southern Cross. Of course, there's always a simpler way, go to Kenting and let the guides help you out.



- 無職座(右上角)・南十字(右下) 與天療座(左側橋紅色亮檀是天療心臓心育二) / 陳启蒙攝 Corvus (upper-right), Southern Cross (lower right), and the Scorpio (the bright orange star on the left is at the heart of the Scorpio) / Photo provided by KTNP; taken by Pei-kun Chen
- 民業委員天文製造信酬者奇妙的主星光環/排任資品供 Looking at Saturn's mysterious ring through the telescope / Photo provided by Kuei-Jen Haien
- 南十字程座主要由上下左右4類程型相成、新上、下爾類型的連線延長5台。可找到南極點/除寫堂攝 The Southern Cross is consisted of four stars at the top, bottom, left, and right. By extending the distance between the top and the bottom stars tive times, you can find the South Pide / by Per-lain Chien.





觀星重在情境,在國家公園看星,有天輻與潔淨空氣 相左:在盜腹壁了看星,可以不被低當干擾,靜享如水 的天階夜色,沈瀬人生……雙丁國家公園內除了貓暴頭 公園,東側海岸龍磐公園一帶也超適合欣賞星垂平野。 月湧葱波的景色,遊人不可讀過。

製丁星空的晶模並非5月的陽爾,因為地形地理因素 (海天空間)及特殊氣候條件(長年落山風吹襲),四季星空均輔得特別明亮。無疑的,這片無高山與高模遊擋, 又無空氣污染的閘間土地,是臥觀星移最佳的所在。雖然,觀星並不一定非識得星座不可,取釋一圓明燦星光 在記憶已是美事,但在識得滿天星斗之後,除了有助於 辨識方位,也彷彿能拉近與星星的距離,那如晶纖酸閃 觸的光芒,將因你對它的稱躁而不再對茫冷涼遙不可 知,閱識星座,特別是在號丁複雜的潮裡與霧鳴中認識 星座,實在是件極美麗的事。 ○ Atmosphere is an important part of stargazing, imagine looking at the stars while being surrounded by the clean air and warm climate in Kenting. Besides Maobitou, Longpan Park in the east side is also great for enjoying the views of the starry sky and the beautiful moon hanging above the grand ocean.

The starry sky in Kenting in May is possible thanks to the terrain (flat ground) and climate (year-round mountain tempests), making the sky extremely clear throughout the year. Undeniably, this piece of land that has no mountains, high-rises, and air pollution is the perfect place for stargazing. Although you are not forced to identify the constellations during this activity, it sure would help you identify the directions and bring you closer to them. After being known to you, the celestial diamonds that shine brightly in the sky will no longer be strangers. Learning about the constellations is certainly a wonderful thing, especially in Kenting where you are accompanied by the sound of the waves and the insects.