



吉娃斯愛科學繪本

第03集
飛魚的夜曆

布農族語
(郡群布農語)

翻譯 / 配音
Biung Madiklaan
(曾國義)

吉娃斯愛科學

第03集 飛魚的夜曆

布農族語 (郡群布農語)



族語全文朗讀



華語全文朗讀



英語全文朗讀



吉娃斯

Ci'uas

飛奔

Huipun

乃奈

Nainai

里昂

Lian



Iskankusbai tu issisipul-sanavan



飛魚的夜曆



The Flying Fish Calendar

慢

原







Minsumin Laiun!



飛魚季來了!



The flying fish season has arrived!







Mais taunasia Laiun, Pangkalkalan hai makulabian maiapura ningav
madamu mas iskankusbai.



每到飛魚季，達悟族人就要在夜間出海夜捕飛魚。



Every year during the flying fish season, Tao people go out to sea at night
to catch flying fish.

慢

原







Isia labian tu singhal, tuntaishang tu iskankusbai mais sadu isia sinpudinun-
kahatu tu sapuz.



在夜色裡，趨光性的飛魚看到拼板舟上的火光。

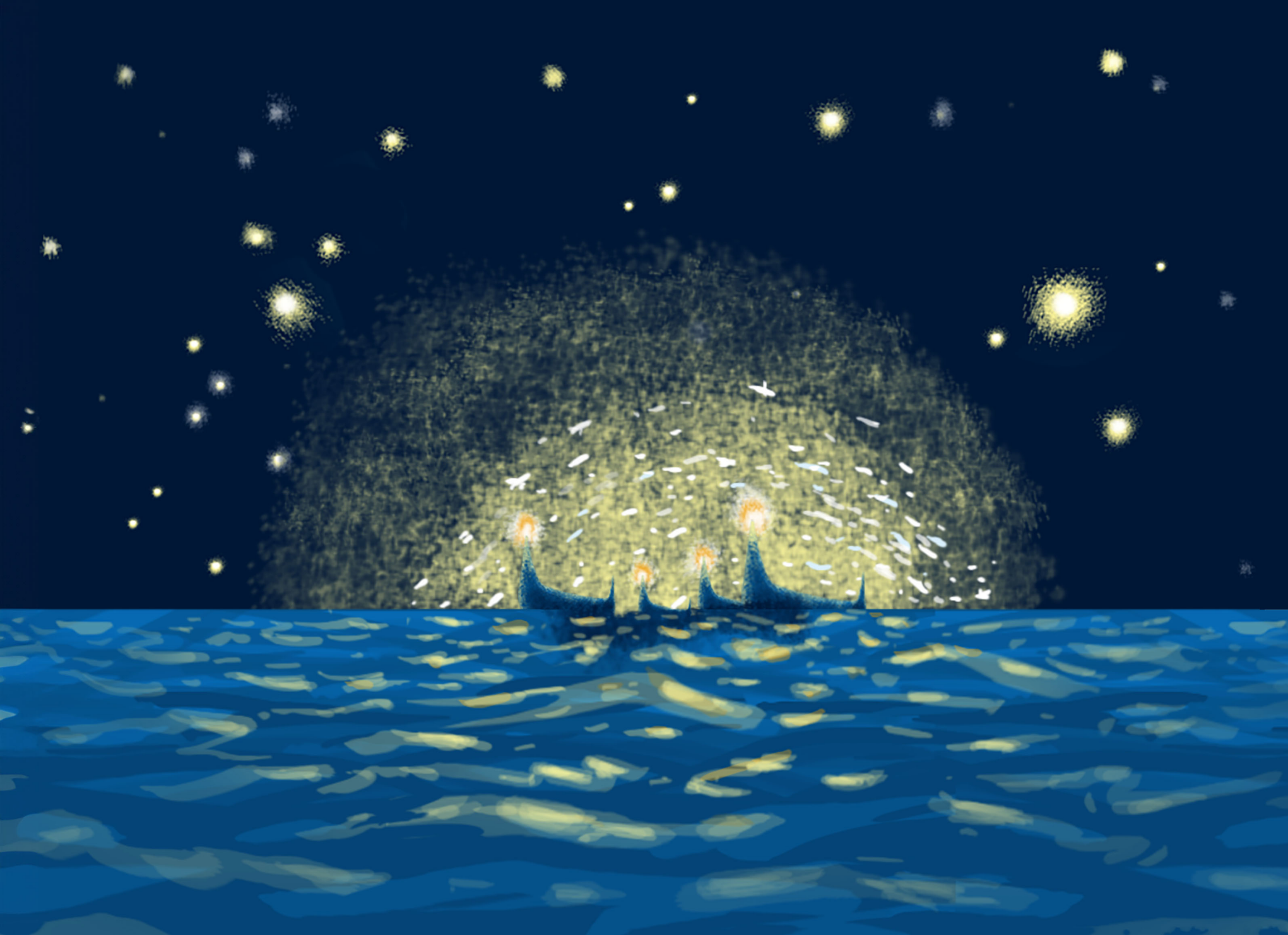


In the dark of the night, flying fish are attracted to the light of torches on
tatala boats.

慢

原







Supahdaingaz tu iskankusbai hai sipuszak mas kanumpani makaapav sia ningav kusbai.



數以百計的飛魚就會展開胸鰭在海面滑翔。



Hundreds of flying fish open their pectoral fins and glide above the surface of the ocean.

慢

原







Sausia mungap istus-a at tudipin naia macinsuhis.



一直到天快亮了, 他們才會返航。



The fishermen only return to the shore when dawn approaches.

慢

原







Macingmut a Sima-sa-ngaz a isia silasningav mastatala mas maiaupa ningav tu tama mahtu katsi-alan maibas.



si Masagaz 很早很早就在海邊等著出海的父親滿載而歸。



si Masagaz wakes up really early to go to the beach to await his father's return with a full catch.







Kunian mas itu Pangkalkalan tu dailaz, itu Sima-sa-ngaz cia tama sia tausuvazun hai pacislunghaun macingan tu Sia-man ma-sa-ngaz, sintupa tu itu Ma-sa-ngaz cia tu tama.



依照達悟族人的傳統，si Masagaz 的父親在他出生後就改名為 syaman Masagaz，意思是 Masagaz 的父親。



According to Tao traditions, when si Masagaz was born, his father's name became Syaman Masagaz, which means the father of Masagaz.







Dinamu tu iskankusbai hai asa tu kasuan mapisial, ma-uman kalkal sin takingadah, at namasialin pin-uniun iskan-haliv.



捕上岸的飛魚要迅速處理，還要去除魚鱗和內臟，方便之後做成魚乾。



The flying fish caught by the fishermen must be processed quickly after reaching shore, removing the scales and organs in order to dry the fish.

慢

原







Sausia mungab taunghuvali, Ci'uas mas Lian hai tudi kusia silasningav mindangaz.



直到太陽快到頭頂時，吉娃斯和里昂才到海邊幫忙。



Giwas and Leon don' t arrive at the beach to help until the sun is high in the sky.

慢

原







Sima-sa-ngaz hai siza tu tasa iskan-pingaz isaiv mas Ci'uas, matumashing mas isaicia tu sintudangaz.



si Masagaz 送給吉娃斯一條女人魚，感謝她的幫忙。



si Masagaz gives Giwas a women' s fish to thank her for her help.

慢

原







Sizaus Pangkalkalan tan iskan mapavaz min tau, iskan-nanaz, iskan-pingaz mas iskan-madaingaz, iskan-pingaz hai mastan masial kaunu, pahasia palaun isaiv maluspingaz sin uvavaz.



達悟族人把魚分成男人魚、女人魚和老人魚三種。女人魚是最好吃的一種魚，所以留給女人和小孩們吃。



The Tao people split fish into three categories: men' s fish, women' s fish, and elder' s fish. Women' s fish are the most delicious, so they are saved for women and children to eat.

慢

原







Asaun Ci'uas tan a iskan mapisial sin madainpus at namasialin adasun kusia Taikung-panlunguan cia ispahusil sia Huipun, haitu napikun sian kuzakuza i?

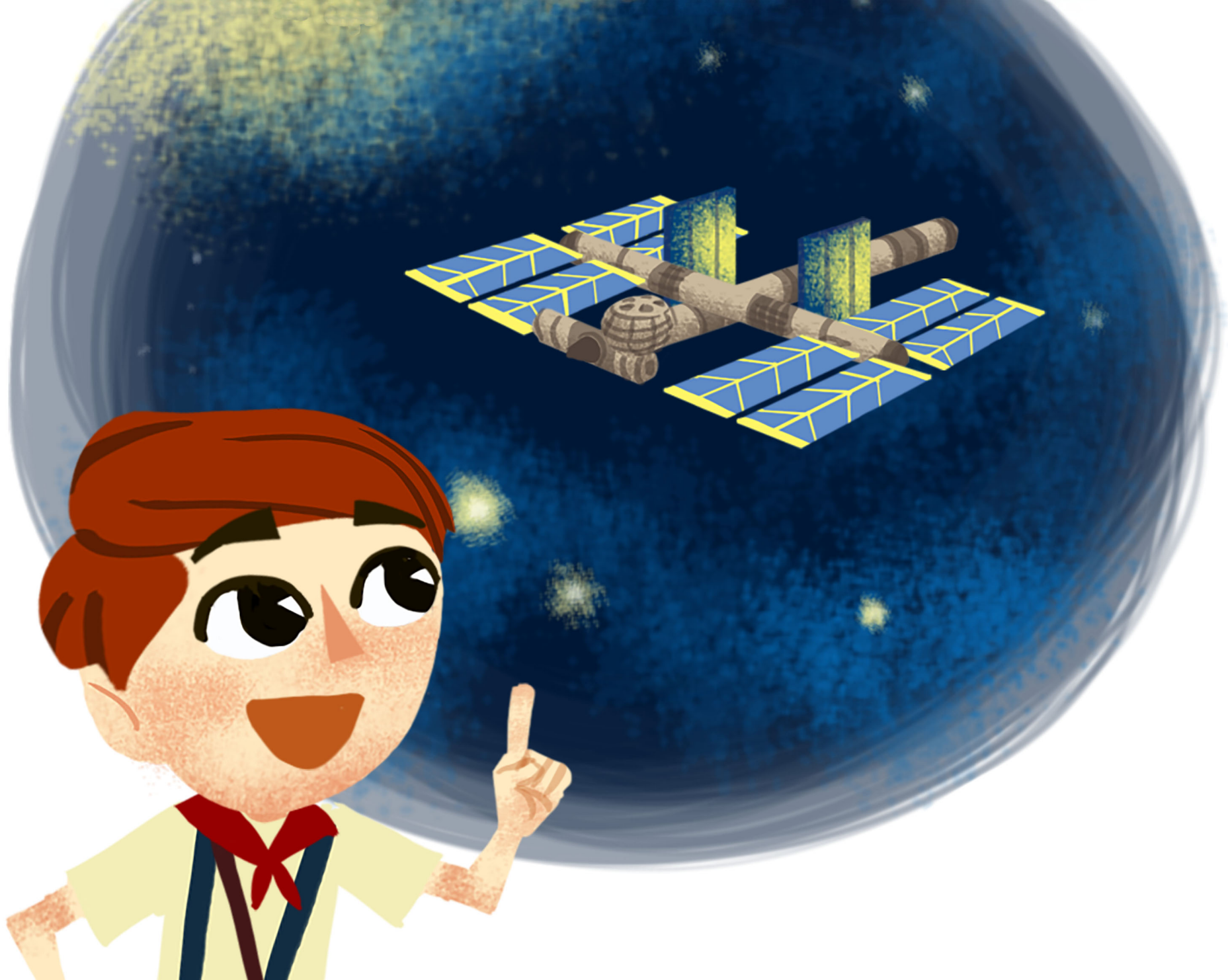


吉娃斯想把這條魚好好保存，以便帶到太空站與飛卉分享。該怎麼做呢？



Giwas wants to preserve the fish so she can take it to the space station to share with Behuy. How can she do that?







Cinliskin Lian a tudi tu isia Taikung-panlunguan cia mapadangi bahlu tu bakal-vali sinpasnava tu hansiap.

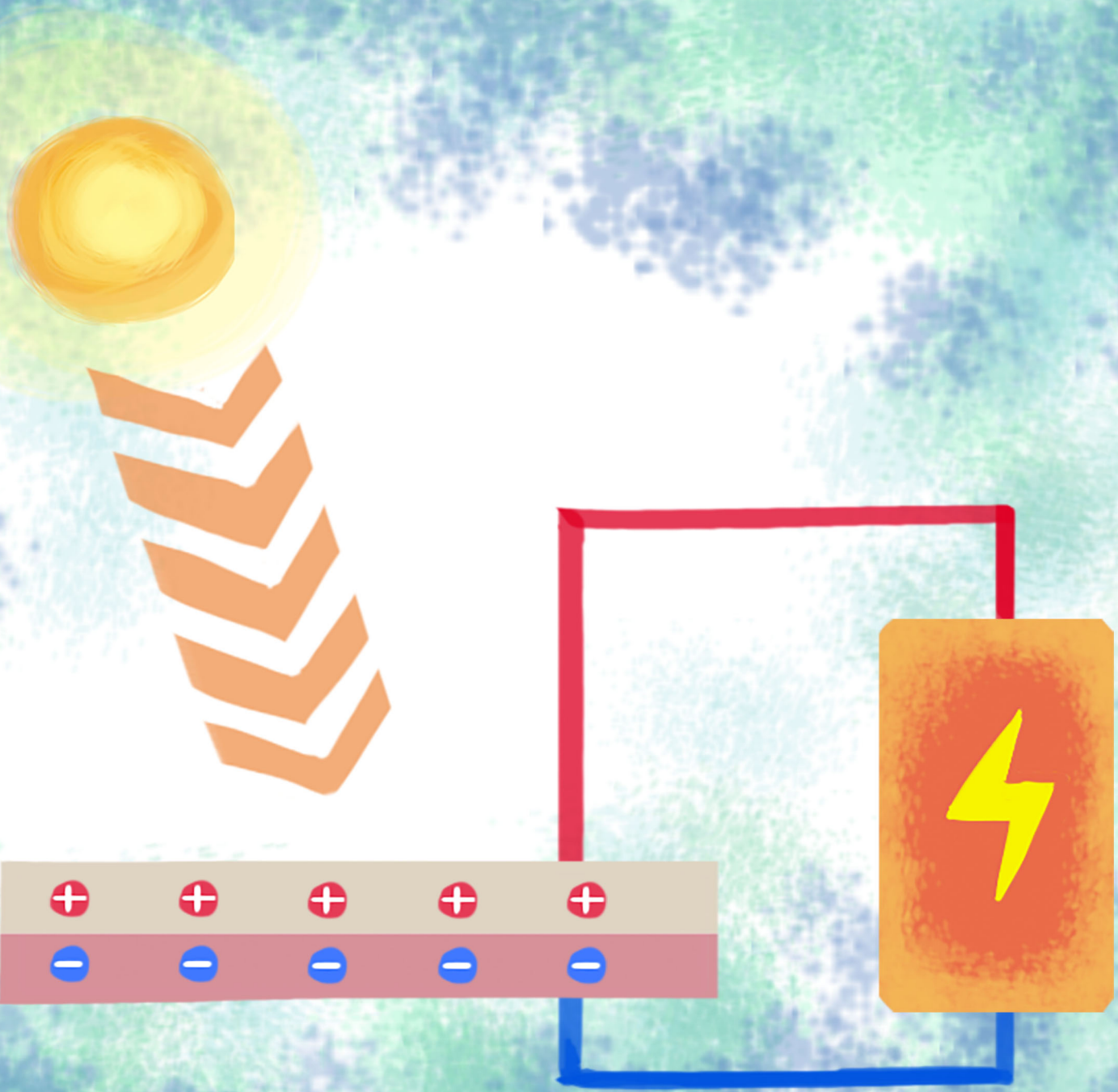


里昂想起上次太空站安裝新的太陽能板所學習到的知識。



Leon recalls what they learned when the space station installed new solar panels.







Ucii hai supsup mas kuangcii at mapun-apav mas Tencii maupacia hai tupaun tu “Kuang tein siau iing” bakal-vali hai maku-uni mas itu vali tu kuangcii mapin aiza mas diingki tu iskusisia.



物質吸收光子後放出電子的現象叫做「光電效應」。太陽能板就是利用太陽光的光子產生電力的一種工具。

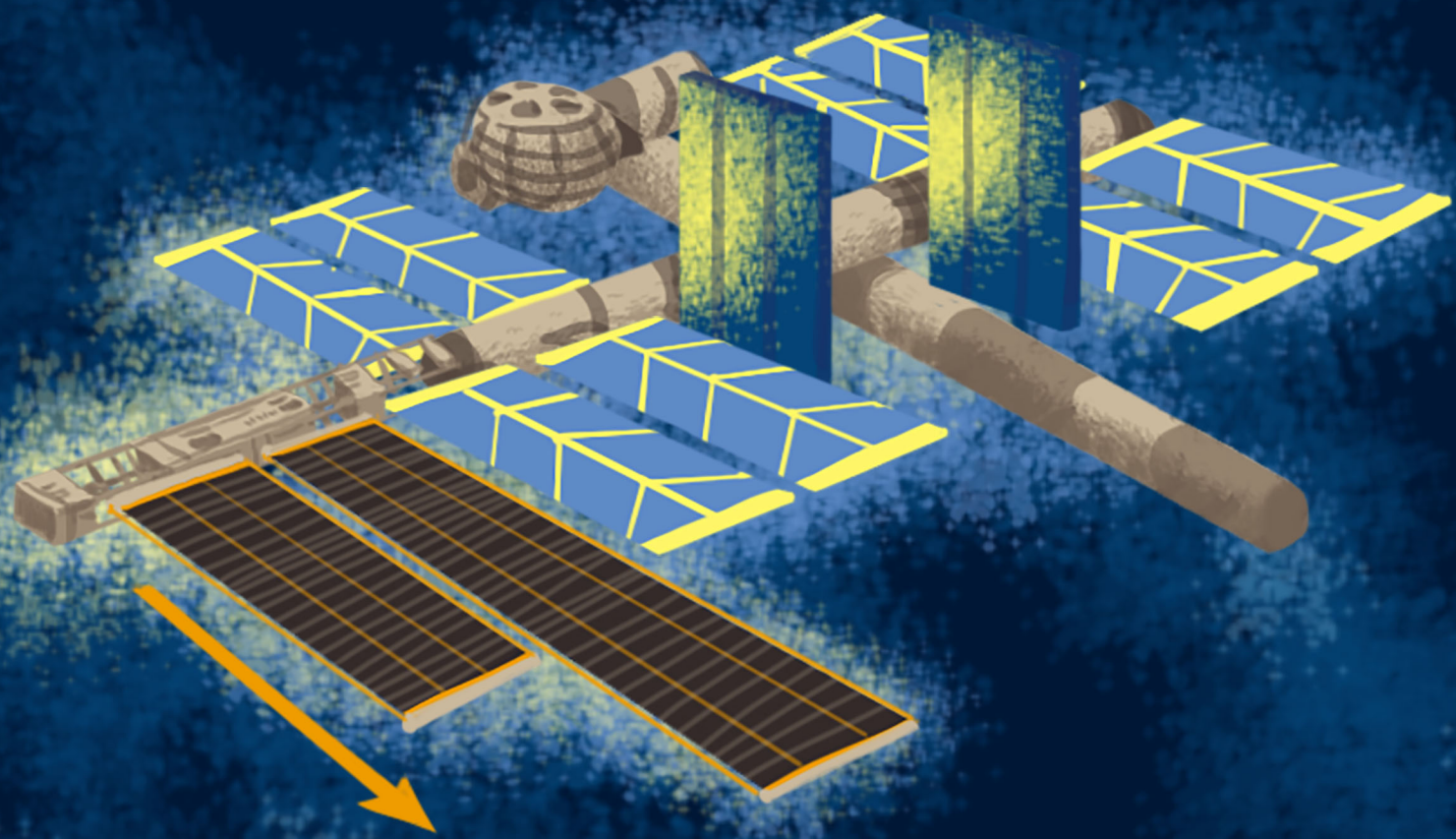


The phenomenon where a substance emits electrons after absorbing photons is called the “photoelectric effect.” A solar panel is a tool that uses the photons of sunlight to generate electricity.

慢

原







Maaz dau a bahu tu bakal-vali hai haizungzungun, manas-ak at nitu hailanghailang, ungat hasmav ku-uni mas valitamasaz.



新型的太陽能板甚至是捲動式的，更輕更不佔空間，更能有效利用太陽能。



A new type of solar panels can even be rolled up. They are lighter and take up less space so they can more effectively capture solar energy.







Ci'uas mas Lian hai cinliskin tu, mahtu amin naia maku-uni itu vali tu singhal mas bahis, sinpavali tu iskan hai namahtuin adasun kusia Taikungpanlungluan cia.



吉娃斯和里昂想到，他們也可以好好利用太陽的光和熱，把魚曬乾，就可以帶到太空站了。



Giwas and Leon remembered that they can utilize the light and heat of the sun's energy to dry the fish so they can take it to the space station.

慢

原







Haitu natalpia tu zikang a sinpavali?



可是到底要曬多久呢？



But, how long does it take to dry a fish in the sun?

慢

原







Minlangatlangat inkaduan tu batudaingaz, haitu tupa Sima-sa-ngaz tu, nii iskan pauncia mapavali.



好不容易才找到的大石頭，si Masagaz 卻說，魚不是這樣曬的。

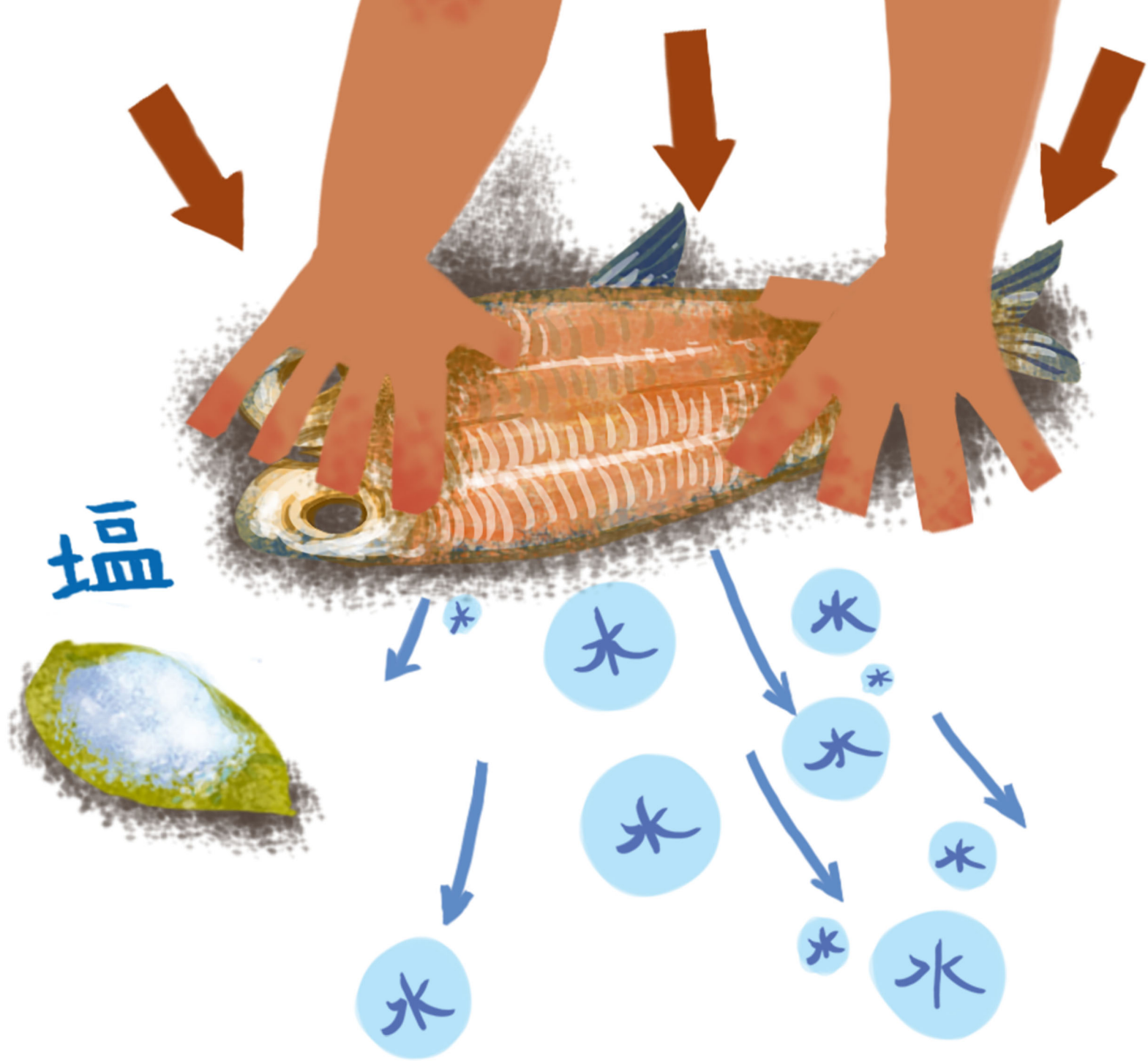


They finally found a big enough stone to place the fish, but si Masagaz said that's not how to sun dry a fish.

慢

原







Pangkalkalan mapavali mas iskankusbai hai natasbanin tu tastusaba painsanan, pinisialin tu iskankusbai hai hasilan, maku-uni mas hasila tu Musliv mastan mas iskankusbai cia madaing, cismaupacia iskankusbai hai ma-aipin mahaliv.



達悟族人曬飛魚已經有不只一百年的歷史。處理好的飛魚抹上粗鹽，利用鹽的滲透壓大於飛魚的滲透壓，可以讓飛魚乾得更快。



Tao people have been drying flying fish in the sun for over a hundred years. Once they have prepared the fish, they cover it with coarse salt. The osmotic pressure of salt is greater than that of the fish, so this makes the fish dry even faster.

慢

原







Itu Pangkalkalan a isinhumis mas iskankusbai sikaupa tu sinkuzakuza hai nitu mahtu sipavazun, inaicia isisipul hai sana-uni amin mas itu iskankusbai tu sahudanan kuzakuza.



達悟族人的生活與飛魚密切相關，就連曆法也都是照著飛魚的汛期來作息。



The lives of the Tao people are closely connected with flying fish, so even their calendar and periods of work and rest are determined by the flying fish season.

慢

原



RAYON
MIVANWA
召魚祭



四月





Laiun hai isia namintalabal, Pangkalkalan hai tangusang Mivanua taudaniv iskankusbai at kitngabin makusanavan matka iskankusbai, maupacia sausia pat buan tudipin makuhanian madamu iskan.



春天的時候，是 Rayon（飛魚季），達悟族會先舉行 Mivanwa（招魚祭）召請飛魚來，然後就開始了夜捕飛魚，一直到四月才可以在白天捕魚。



During the spring, it is Rayon (flying fish season) and the Tao people hold Mivanwa (the fish festival) to invite the arrival of the flying fish. Then, they begin to catch flying fish at night until April when they can resume fishing during the day.

慢

原



ТЕУТЕУКА





Maisnasia Laiun kitngab tu tal-ima tu buan sausia tal-vau tu buan hai tupaun tu Teteka, islaupacia tudi mahtu madamu mas iskankusbai dumindumin tu iskan, cismaupacia namahtuang a iskankusbai panlungu sinihumis.



Rayon 開始後的第五個月到第八個月是 teyteyka (海上魚撈的季節)，這個時候只能捕捉飛魚以外的魚種，讓飛魚休養生息。



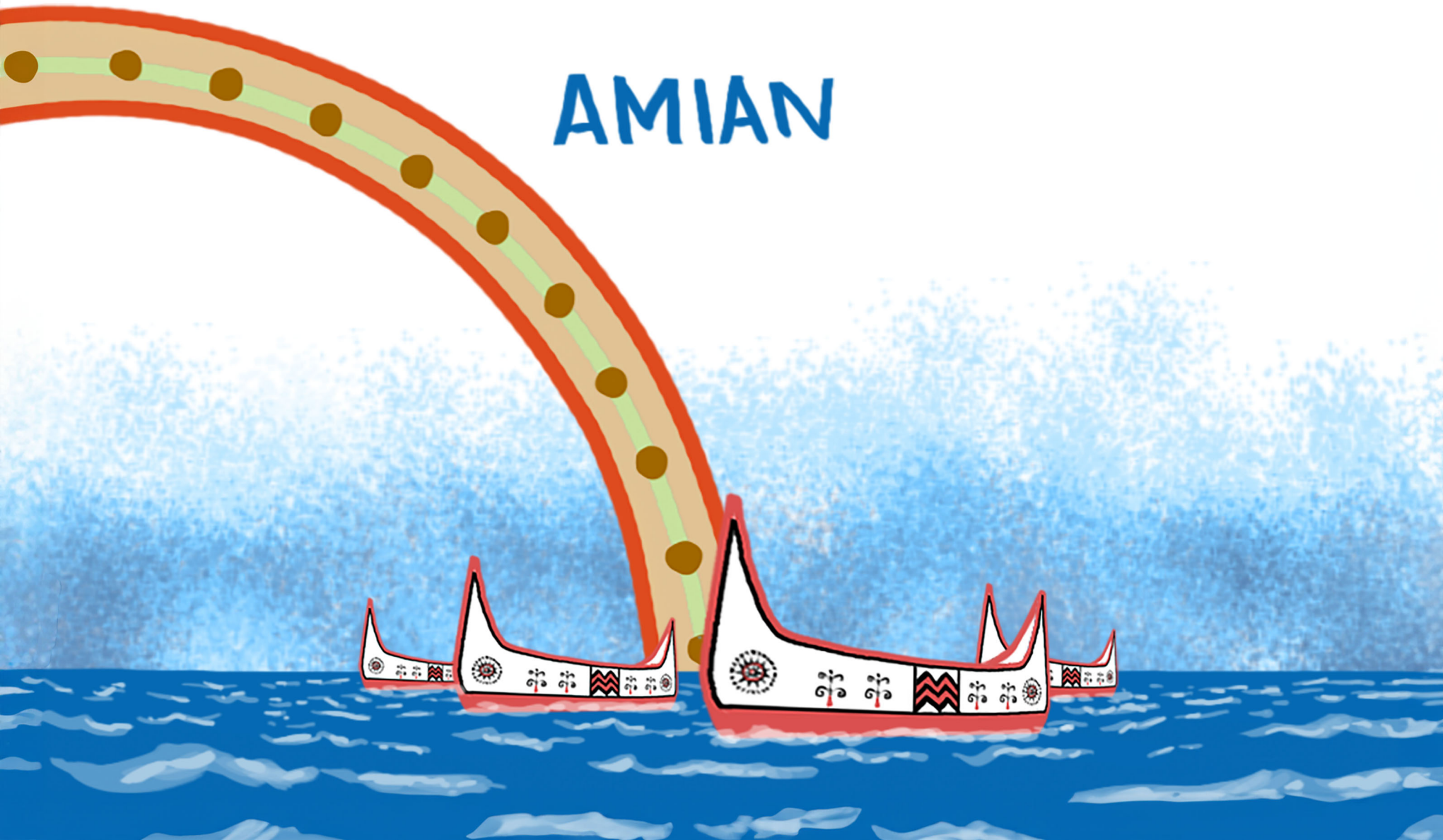
From the fifth to the eighth months after the start of Rayon, it is Teyteyka (the season of fishing on the ocean). During this time, they can only catch fish other than flying fish to give flying fish a chance to recover.

慢

原



AMIAN





Tal-siva tu buan kitngab hai tupaun tu Amian, Pangkalkalan hai ka-uni mas Manuiutuiun, islaupacia hai niin mahtu maun mas iskanhaliv, mais maupacia katavinin hai na-aizan mas katsi-alan.



第九個月開始是 amian (等待飛魚的季節)，達悟族人會舉辦 Manoyotoyon (飛魚終食祭)，從這時開始，連飛魚乾也都不能吃了，這樣明年才會有更好的豐收。



Starting with the ninth month, it is Amian (the season of waiting for flying fish). The Tao people hold the Manoyotoyon (festival of finishing the flying fish). From this point on, they cannot eat anymore dried flying fish to ensure that they will have another full harvest in the coming year.

慢

原



RAYON
MIYVANWA
召魚祭



TEYTEYKA
夏天



MANOYOTOYON
飛魚終食節





Sian hai itu Pangkalkalan Iskankusbai tu issisipul-sanavan.



這就是達悟族「飛魚的夜曆」。



This is the Tao people' s “Flying Fish Calendar.”







Mais kanahtunganin Sima-sa-ngaz cia iskanhaliv mapihaliv hai namahtuin sizas iskanhaliv ispakaun Huipun, at andi iskanpingaz an hai ngausavang ma-anat minpandian danum maun!



等到si Masagaz 把飛魚乾曬好, 就可以帶飛魚乾給飛卉吃, 這條女人魚就先煮湯吃了吧!



When si Masagaz is finished drying his flying fish in the sun, they can bring the dried flying fish to Behuy at the space station. But, it's best to make fish soup with this women's fish now!

慢

原







Simaz-ngan hai mapisialin ma-anat iskan.



si Mazngang 替大家煮好魚湯。



si Mazngang makes a fish soup for everyone.







Babahlu tu mai-iskan masmuav tu masial huden!

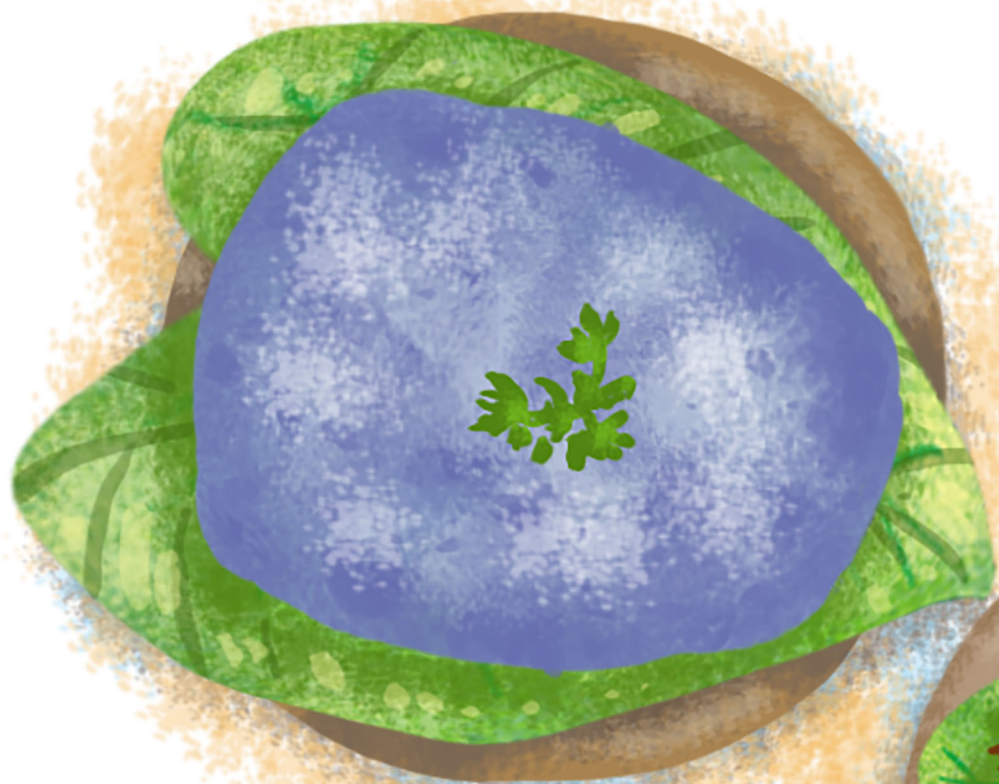


新鮮的魚湯真是太好喝了！



The fresh fish soup is so delicious!







Tupa Simaz-ngan tu nitu kaupa ma-anat iskan hansaipun ku, haiapunku amin ka-uni taibuhul sin mapit-unu kakalang.

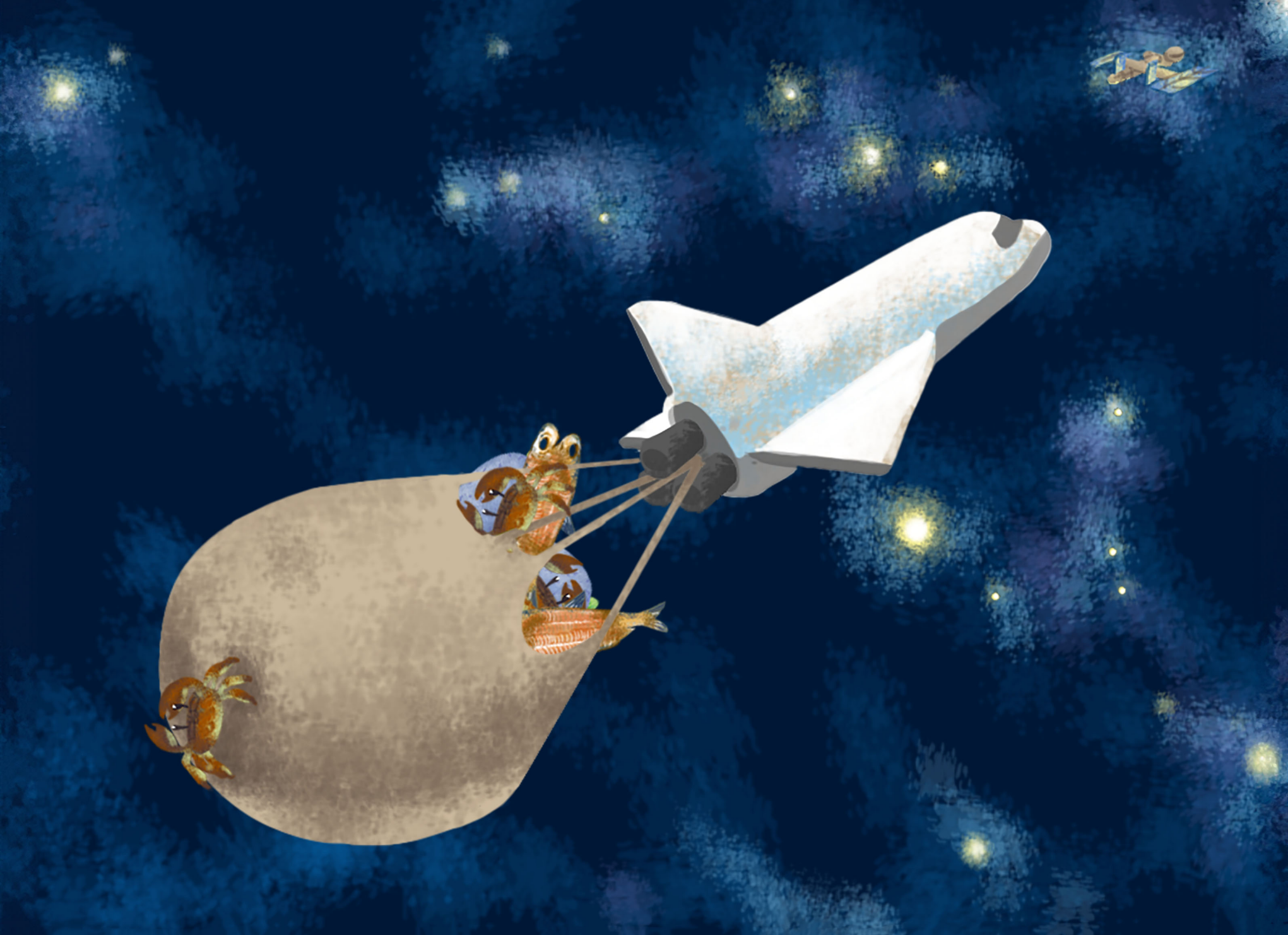


si Mazngang 說她的拿手料理除了魚湯，還有芋頭糕和蒸陸蟹。



si Mazngang says in addition to fish soup, her specialties also include mashed taro and steamed crab.







Napasnavaun amin mas Ci'uas at nasizaun saicia itu Pangkalkalan cia maansum tu kakaunun madas kusia Taikung-panlunguan cia, mais aminun Huipun cia maun hai nakazin macisbak a cian maszang mas ludunikit!



吉娃斯要全部學起來，她要把達悟族的美食通通帶回太空站，讓飛奔吃得肚子鼓起來像是一座小山！



Giwas wants to learn how to make all of those things to bring Tao culinary traditions back to the space station so Behuy can eat so much delicious food his belly sticks out!



一般單詞

| 中文 | 詞性 | 族語 |
|-----|-----|-------------|
| 飛魚季 | 名詞 | Laiun |
| 捕 | 動詞 | madamu |
| 飛魚 | 名詞 | iskankusbai |
| 展開 | 動詞 | sipuszak |
| 返航 | 動詞 | macinsuhis |
| 傳統 | 名詞 | dailaz |
| 魚鱗 | 名詞 | kalkal |
| 魚乾 | 名詞 | iskan-haliv |
| 保存 | 動詞 | madainpus |
| 安裝 | 動詞 | mapadangi |
| 知識 | 名詞 | hansiap |
| 曬乾 | 動詞 | ispavali |
| 新鮮的 | 形容詞 | babahlu |
| 芋頭糕 | 名詞 | taibuhul |
| 鼓起來 | 動詞 | macisbak |

| 中文 | 詞性 | 族語 |
|------|----|----------------------|
| 趨光性 | 名詞 | tuntaishang |
| 滑翔 | 動詞 | kusbai |
| 太陽能板 | 名詞 | bakal-vali |
| 物質 | 名詞 | Ucii |
| 光子 | 名詞 | kuangcii |
| 光電效應 | 名詞 | Kuang tein siau iing |
| 滲透壓 | 名詞 | Musliv |



科學單詞

吉娃斯愛科學 布農族語 (郡群布農語)

第03集 飛魚的夜曆

補助單位一 教育部國教署 (繪本紙本製作與族語翻譯配音)
計畫名稱 「發現天生科學家：原住民族文化科學學習實踐與發展十年計畫」(第二階段第二年)

補助單位二 國家科學及技術委員會 (繪本繪圖製作)
計畫名稱 「吉娃斯愛科學IV：太空站部落」

計畫主持人 傅麗玉
計畫執行單位 國立清華大學原住民族科學發展中心

族語翻譯 Biung Madiklaan (曾國義)
族語配音 Biung Madiklaan (曾國義)
族語翻譯審查 Husung Istanda (顏浩義)

英語翻譯 Joelle Chevrier (蔡雪青)
英語配音 Barton Steven Grant
華語配音 歐陽年年

協力製作 原金國際有限公司、聲境有限公司
出版日期 中華民國113年6月



吉娃斯 愛科學 Go Go Giwas

 粉絲專頁



 遊戲繪本 iOS 版



 遊戲繪本 Android 版

