



吉娃斯愛科學繪本

第02集  
智慧地下屋

排灣族語  
(中排灣語)

翻譯 / 配音  
Muni Kadrangian  
(慕妮·卡拉雲漾)

# 吉娃斯愛科學

第02集 智慧地下屋

## 排灣族語 (中排灣語)



族語全文朗讀



華語全文朗讀



英語全文朗讀



吉娃斯

Muni

飛弁

Vikal

乃奈

Iljaw

里昂

Sisilj



katjepinuvarungan a umaq i tjariteku



智慧地下屋

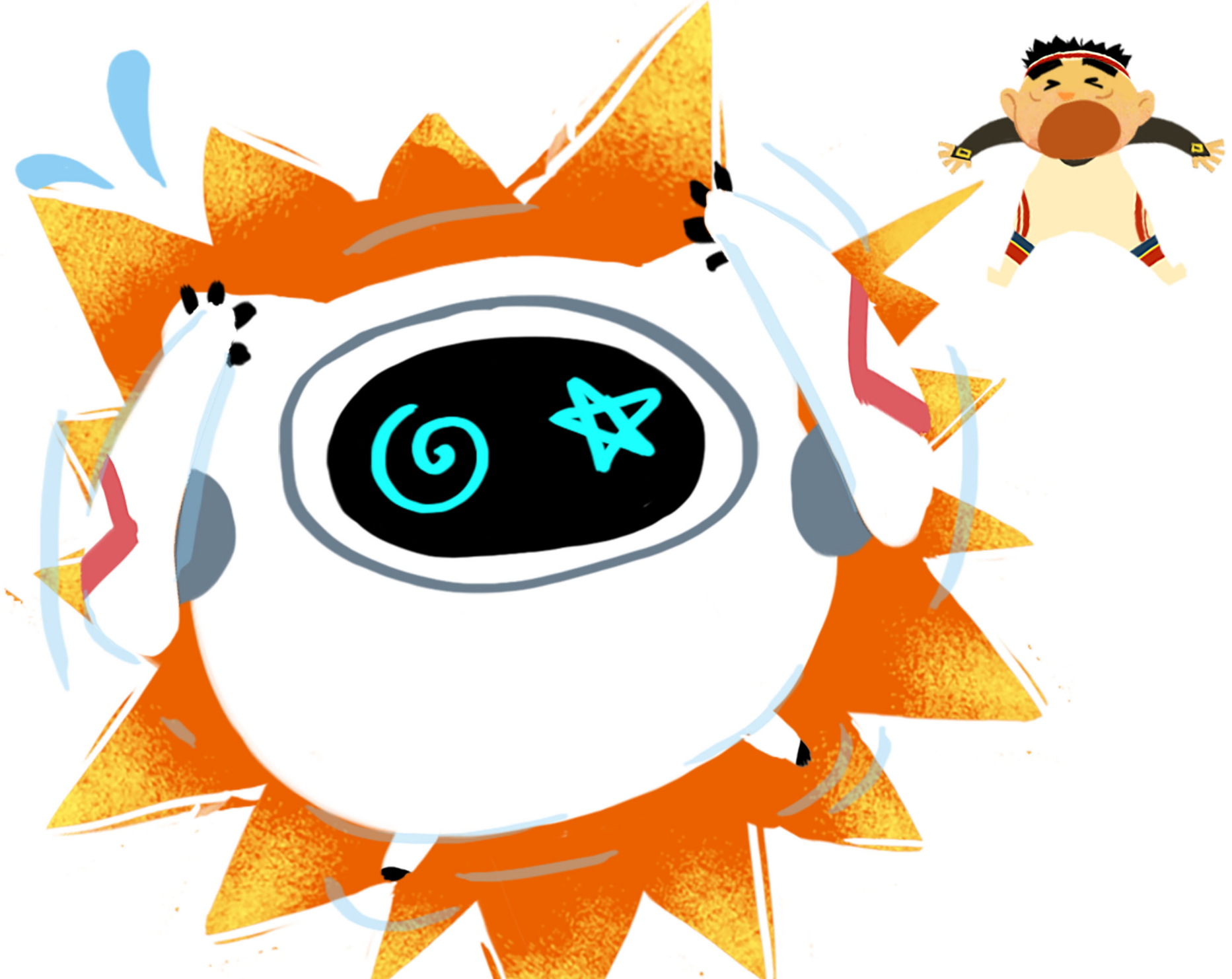


The Wisdom of the Below Ground House

慢

原







ika padria cu! ika padria cu! pasiqacaqaca a temeruac a ti Vikal.



不好了!不好了!飛奔大喊著。



Oh no! Oh no! Behuy yells out.

慢

原







manu ayatua aza i ljiuk a kapuljan nua makasalingauljan natjezalemananga i pagidigidi tua salingualj a kadjunangan, vanasika ikaanga napacun ti Vikal tua kinivala ni Muni taza i Ivatas a qinaljan.



原來是因為 Ryuk 太空站已經來到地球的另一側，所以飛卉看不到吉娃斯拜訪的 Ivatas 了。



The Ryuk Space Station has traveled to the other side of the earth, so Behuy can't see Ivatas where Giwas is visiting.

慢

原









ayauaya, makaya uta kemasitua sinipaqailjungan nua kalunulunung a kileqeleq taza i Ivatas a qinaljan.

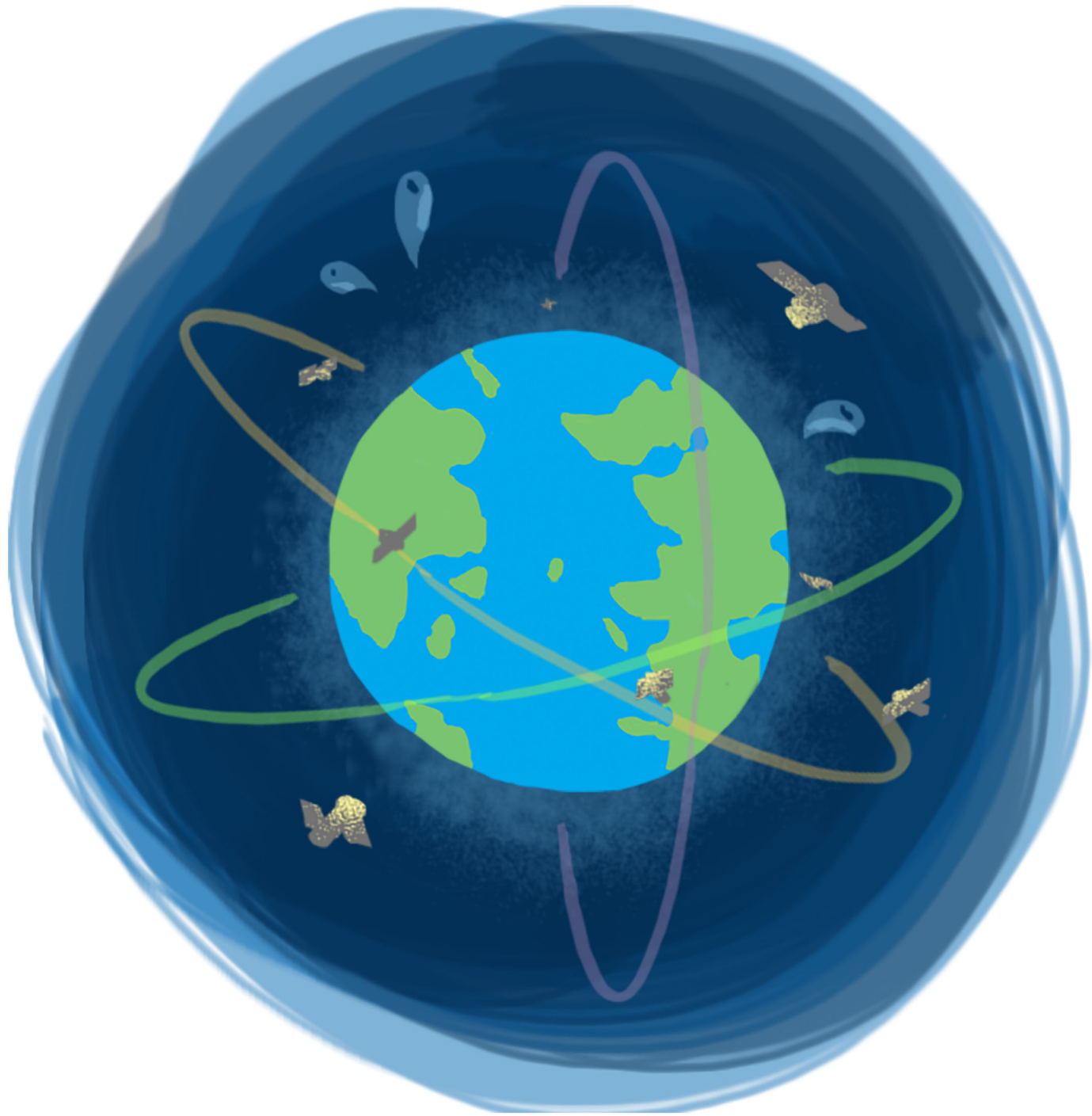


幸好，還可以從衛星拍攝的照片觀察Ivatas。



Luckily, he can still observe Ivatas from satellite images.







ayatua aicu a sitjara kinaqadavan a kalunulunung manaza sinikaljegeljeg nua liyaliyav a kalunulunung, saka nasetatalj i penalinguljan tua salingualj a kadjunungan, maqati a kikeljang tua kinaqadavan nua i pasainuanga tua salingualj a kadjunungan.



因為氣象衛星是由許多顆衛星共同組成，散佈在地球的周圍，可以探測到地球每一個地方的天氣。



Meteorological satellite systems are made up of many satellites scattered all around the earth so that they can detect the weather in every part of the earth.

慢

原







saka ayatua naljemtuanga a caquan, aicu a kalunulunung inikaanga a maqeceng tua tjaretjar nua qerepus katu liljaliljav, tjasepadriaanga a sikuletjan tua kinaizuanan nua sebek kata sebesebek.



而且因為技術的進步，衛星可以不受雲層或水氣的影響，更能準確判斷高氣壓與低氣壓的位置。



Furthermore, because of improvements in technology, satellites are not affected by cloud cover and moisture so they can accurately determine the location of high pressure systems and low pressure systems.

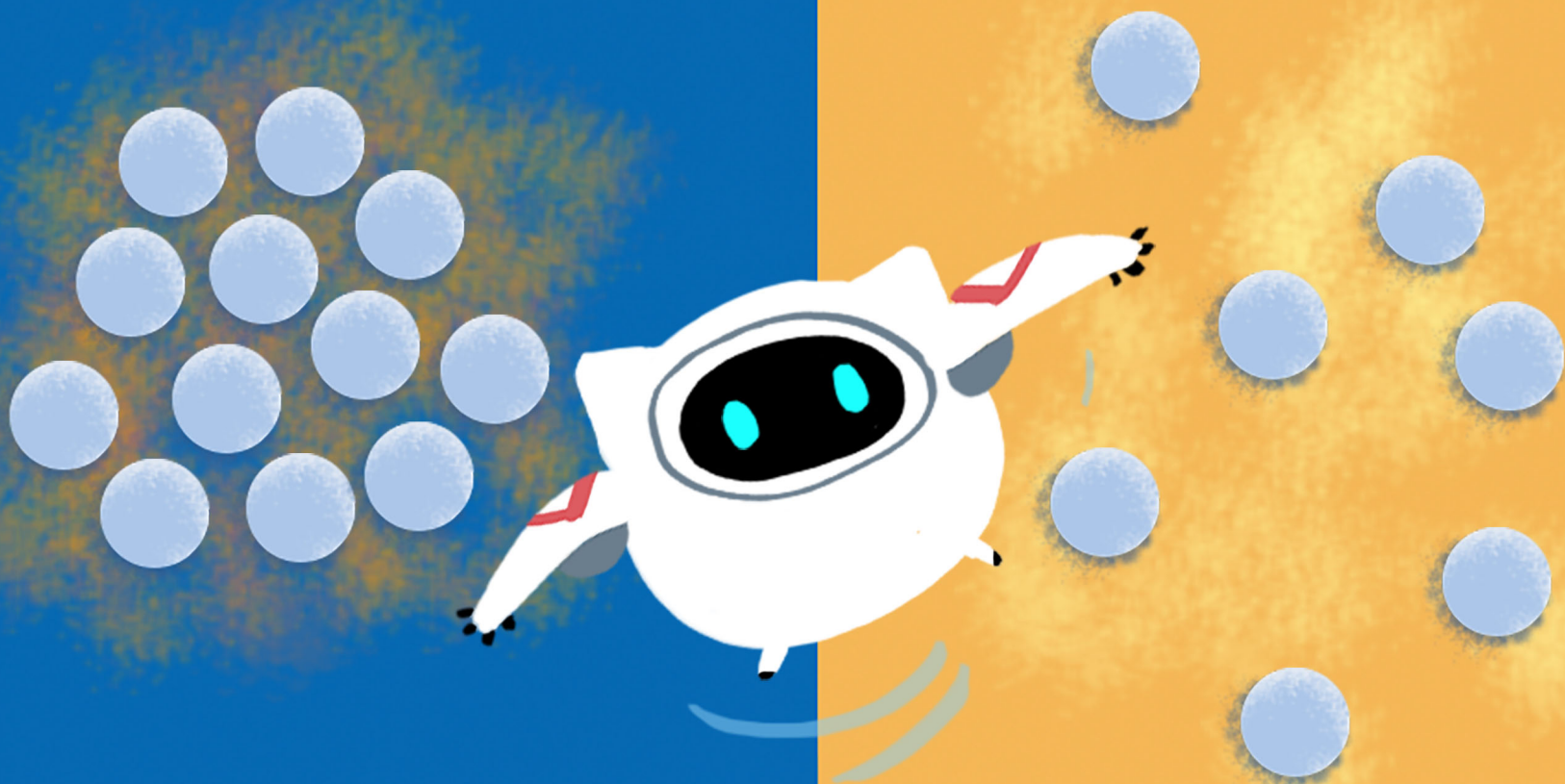
慢

原



高氣壓

低氣壓





nu tjavavav a kinadjengdjengan nua itua sinasi na djemdjem i ta kadjunangan, manaza pinaka sebek. aza tjanamapasaljuay a kinadjengdjengan avana pinaka sebesebek.



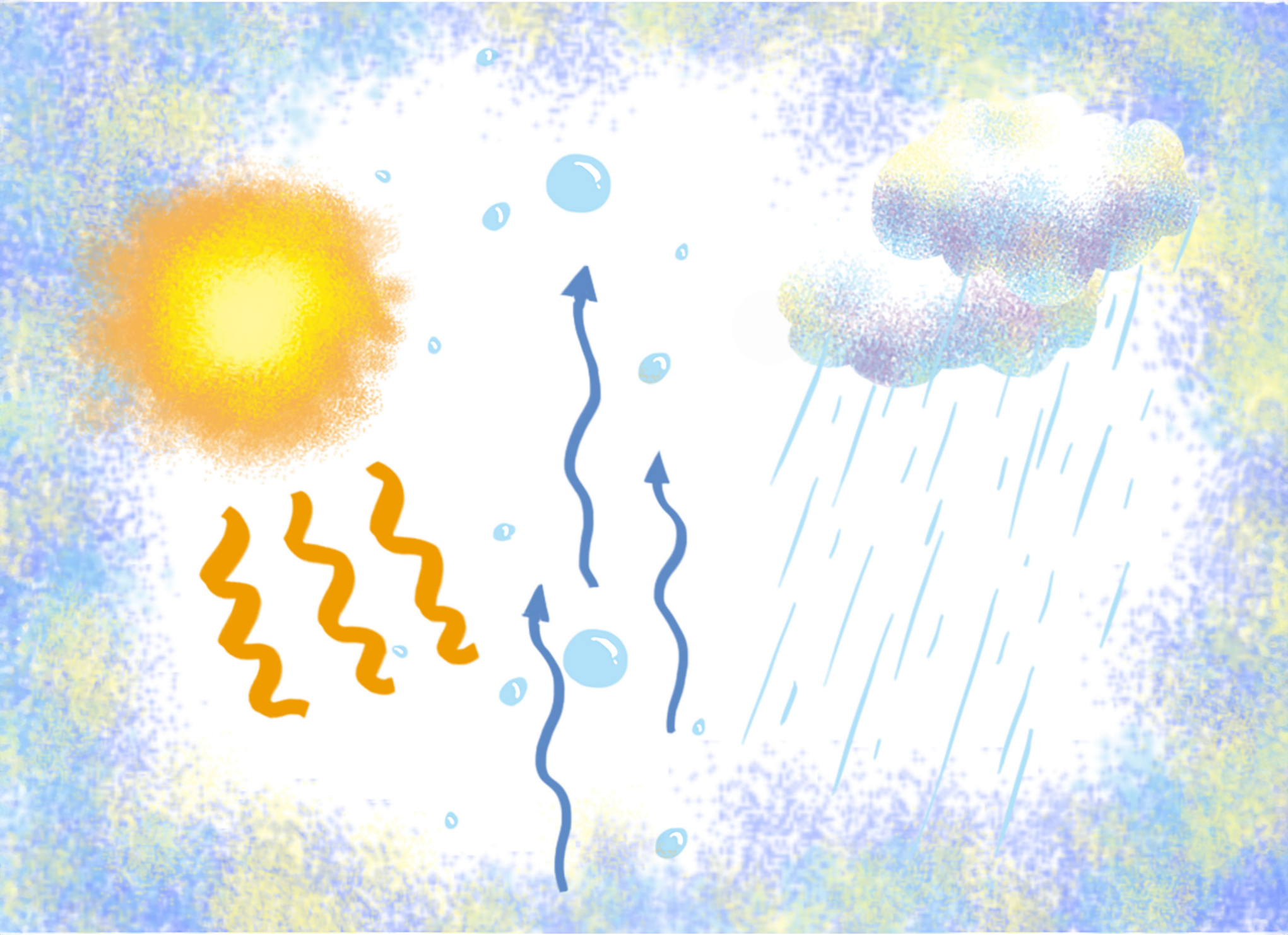
當一個地方空氣分子密度比較高的時候，叫做高氣壓。密度比較低的時候就叫做低氣壓。



When the air molecules in a place have a higher density, this is called high pressure. When the density is lower, it is called low pressure.









nu macedas tua cenglav a sinasi sa tjamaseljec, sa aza kinamamamavan nua silavaqan na djemdjem nu mapatjeljuq, saka aza kinadjengdjengan nu mekedri masan sebesebek, sa masapiniculan nua sisetjavav saka ljiateku a sikaseljecan, tua sikamazenguan nua djemdjem sa masan qerepus, pay madjulu a qemudjalj a kinakemudan.



當空氣因為太陽照射而提高溫度，分子的平均速率增加，密度減少而形成低氣壓，進而受到浮力上升降溫，使水氣凝結形成雲，容易出現下雨的情況。



When the air temperature becomes higher because of the sun's rays, the average velocity of the molecules increases and the air density decreases forming low pressure. In turn, the air floats upward and the temperature drops, causing water vapor to condense and form clouds, so that there is a high likelihood of rain.







aza i pavavav tua i Ivatas a qinaljan linepecananga nua namatjaretjar a qerepus, aki muri qemudjaljanga?



Ivatas 的上空被雲層覆蓋了, 是不是快要下雨了呢?



Ivatas is covered in a cloud layer. Is it going to rain there soon?

慢

原







aicu a ti Muni pakanguanguaq aravac tua makalemiljavan nua i Ivatas a qinaljan iu! aicu a kinanguaq pazangal aravac a mapacun itua qinaljan nua lava.



吉娃斯覺得 Ivatas 的海邊好美呀！這是在飛鼠部落很難看到的景色。



Giwas thinks the beaches on Ivatas are so beautiful! This scenery is something she doesn' t often get to see living in Flying Squirrel Village.

慢

原







pasemalav ti Qipu tjanuitjen a masantalj, tu muri qemudjaljanga, sipadjuluananga tua semaumaq.



si Masagaz 告訴大家，快要下雨了，該準備回家了。



si Masagaz tells everyone that it is going to rain soon, so it's time to go home.









“azuwa mana kuumaq aya.” sa tulek a pasazua i cadja taza qaljiv ti Qipu.  
“aku tekuteku aravac a suumaq aya?” ti Muni a pasasamalji.



「那就是我家。」si Masagaz 指著遠處的一個屋頂。「你家怎麼會這麼矮呀？」吉娃斯很好奇。



“That’ s my house.” si Masagaz says as he points to a roof. “Why is your house so low?” Giwas asks curiously.







“malevaitjen tua nu pinangetjezan a semamaza itua niaumaq i tariteku a se Tao!” aya ti Qipu tjanuamen a masantalj.



「歡迎來到我們達悟族的地下屋！」si Masagaz 對大家說。



“Welcome to a below ground house of the Tao people!” si Masagaz tells everyone.







manukemuda aza umaq i tariteku manu paqulid angata tu taiteku tua zemalemanan aza umaq, inikamanu pini katjaladjan tua kadjunungan!



原來地下屋其實是蓋得比地面還低的屋子，不是蓋在地下！



It turns out a below ground house is built lower than ground level, but not underground!







aza i palingulj tua umaq izua za namatatudutudur a kinacudrungan nua tjaljetjalj, saka sinadayan tua qanaunav.



房子周圍有一層一層的階梯結構，並且鋪滿了鵝卵石。



Surrounding the house, there is a layered structure of steps covered with cobblestones.

慢

原









namaqutjav ti Sisilj, tua nu qemudjalj nusauni, aza umaq i tariteku ki masan ljaljanguyananga ayau?

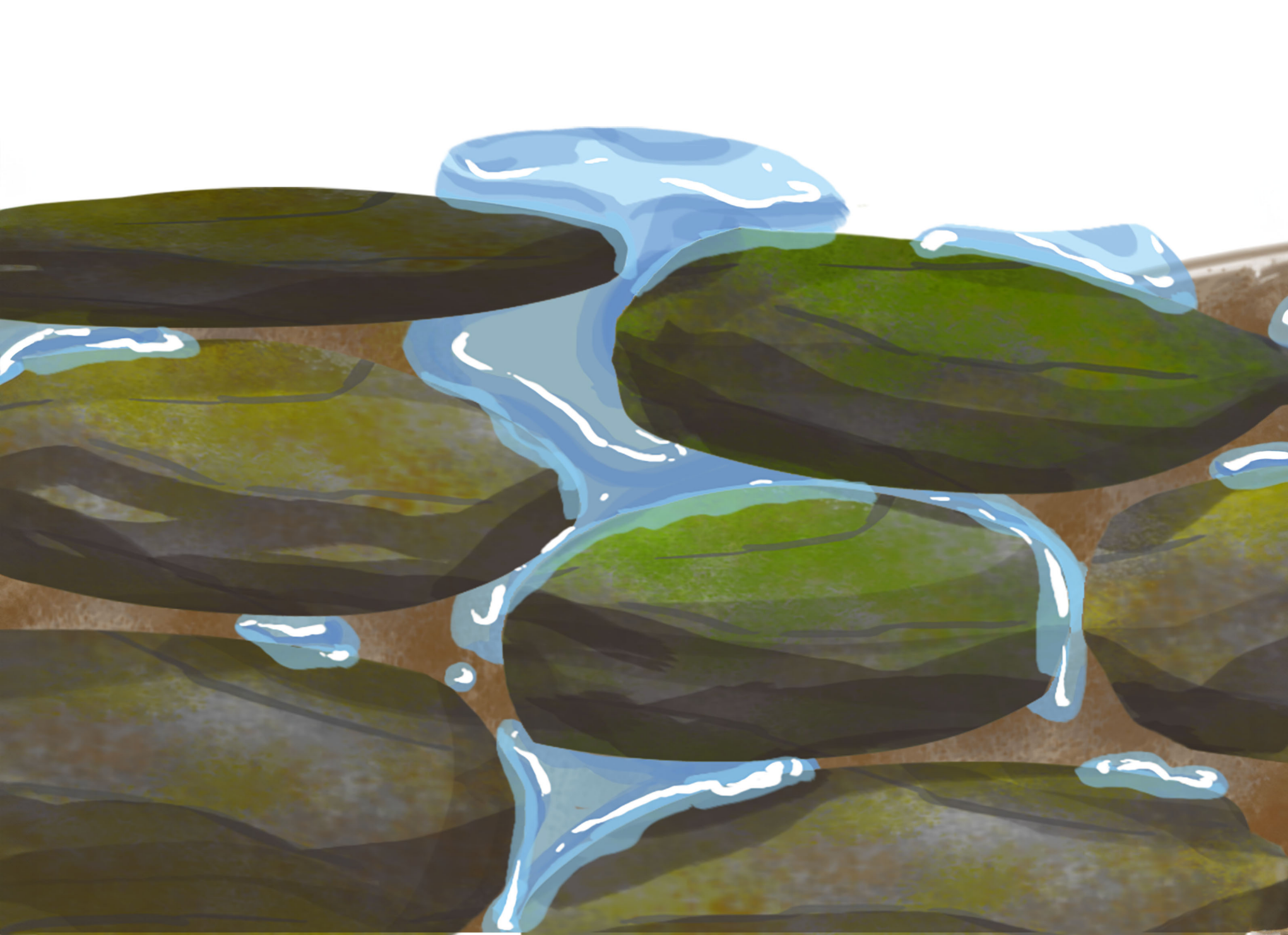


里昂很擔心，等一下要是下雨了，地下屋不就變成游泳池了嗎？



Leon is worried that if it starts raining soon, the below ground house will turn into a swimming pool.







maya mataviq! aza mareka ngasa nua tjara qanaunav cacengcengan a pakazua a lemulu na zaljum, inika matjaveng aza zaljum a tjalju ta umaq i tariteku.



不用擔心！鵝卵石和鵝卵石之間的縫隙剛好可以排水。水不會累積在地下屋。



There' s no need to worry! The spaces between the cobblestones are perfect for water drainage, so water doesn' t accumulate in the below ground house.

慢

原







aza zaljum kemasitua namacadjucadjur a kinacudrungan sa pasa tekun a lemulu, nu vililjanga makazuaanga itua sivaik nua zaljum na umaq i tariteku a sasav, avancu a pinuvarungan nua umaq i tariteku.



水從一層一層的結構往下流動，最後就會從地下屋的排水口流出去，這就是地下屋的智慧。



The water flows downward from the layered structure and finally flows out from the drainage hole next to the below ground house. This is the wisdom of the below ground house.

慢

原







aicu a mareka tjara qeluqeluz nua umaq i tariteku, aicu a mareka qaciljay, savid tu kama ni Qipu a napeniliq kata nasemakuc.



地下屋的每一根柱子，每一塊石頭，都是 si Masagaz 的父親親自挑選和搬運的。



Every column and stone of the below ground house was selected and moved here by si Masagaz' s father.









qivu ti Qipu a matucu, nu meqacaanga timadju muri masengseng uta tu ita tua katjepinuvarungan a umaq i tariteku.



si Masagaz 說，他長大也要蓋一座有智慧的地下屋。



si Masagaz says, when he is older, he wants to build a wisely designed below ground house too.







qemudjaqudjaljanga! aicu a se Tao a caucau makaljavek a kinadriungan,  
aicu a sikiliguan ni Qipu tua kinaqadavan tjamapasusu tua sirupasusangas  
a pakeljang tua kinaqadavan iu!



下雨了! 達悟族人是海洋民族, si Masagaz 對天氣的預感比氣象預報還準呢!



It starts raining! The Tao people are a people of the ocean, so si Masagaz' s  
weather predictions are even more accurate than weather reports!

慢

原







aza sikacekelj ni Qipu a ti Selep patjavang tua sinandjamay tjanuitjen a masantalj.



si Masagaz 的表姊 si Mazngang 替大家端上拿手好菜。



si Masagaz' s cousin si Mazngang brings out the delicious food she cooked for everyone.







aza kama ni Qipu sepacengceng a sipangetjezan a semaumaq.



si Masagaz 的父親也剛好回家了。



si Masagaz' s father has also just come home.









pay kani dri! aicu a mareka djamay sinanguanguaq a pipenuljatan lja!



開飯囉！每一道菜都好美味呀！



It's time to eat! Every dish is so delicious!







ka muri zemenger a qivu ti Muni, manu sepakamaca aza siremecan a keman naza pimasantaljan, neka nu matjakaikay.



吉娃斯想要開口稱讚，卻發現大家都專心吃著飯，沒有人在閒聊。



Giwas wants to compliment the food, but she notices that everyone is so focused on eating that no one is chatting.







ayatua aicu a se Tao nu sikakan keman sakamaya, nu izua muri siqaqivu,  
nu makakananga qivuanga iu.



因為達悟族人吃飯就是吃飯，想要說話的話，要等吃完飯才能說呢。

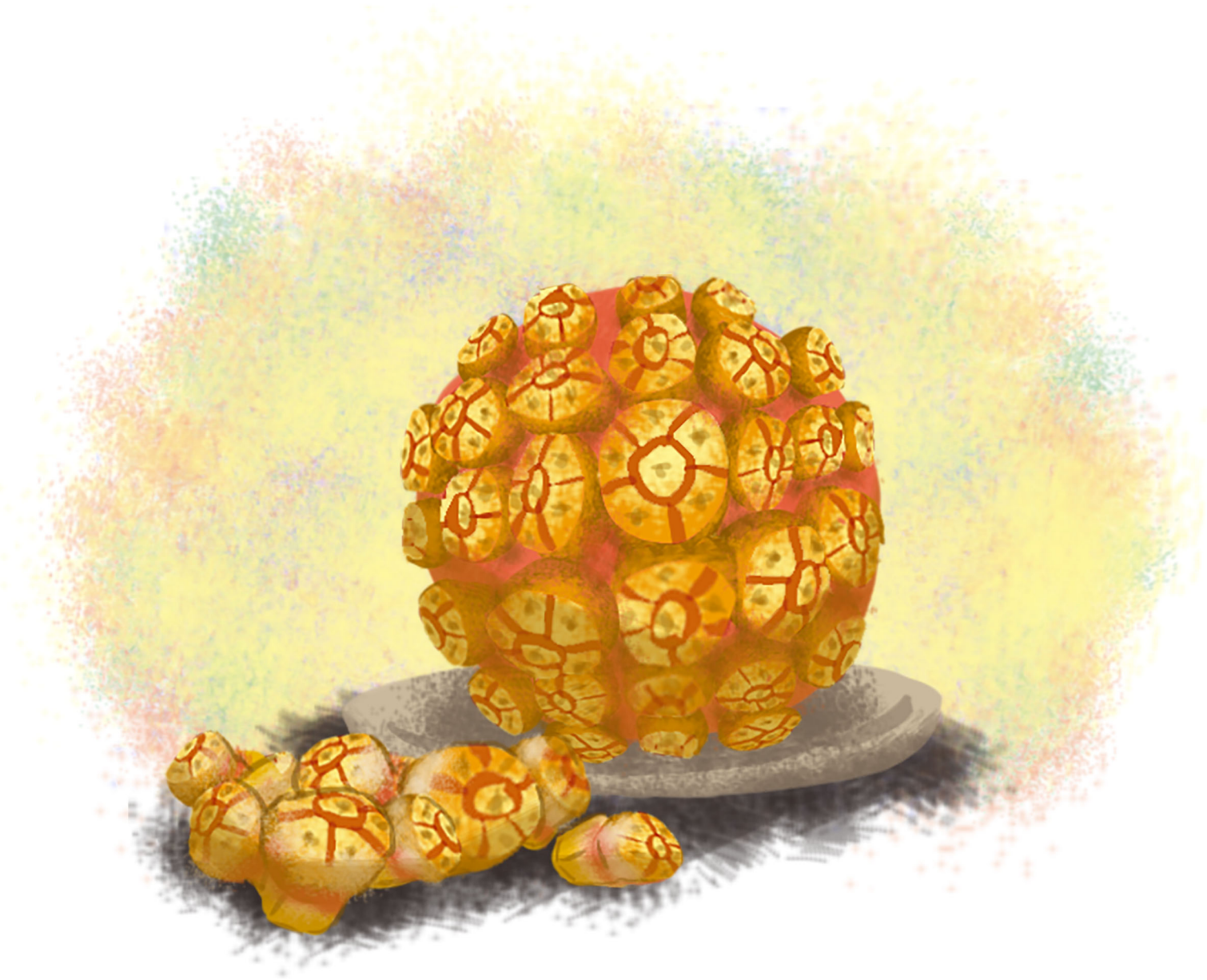


That is because when Tao people eat, they focus on eating. If they have  
something to say, they wait until after eating to say it.

慢

原







nu nakemananga izuanan a vangalj nua tjauka kanadri a tjakanen,  
matjatjuka seleva amen a masantalj.



飯後還有新鮮的林投果可以吃，大家都覺得好新奇。



After their meal, there is fresh screwpine fruit to eat, which is a novel treat  
for the guests.

慢

原









manu sikaqatiananga ljemavaran. sa pasiqaca a qivu ti Muni a matucu  
aza kakanen tasauni sangaq tu sangaq aya!



總算可以說話了。吉娃斯大聲地說剛才的食物真的好好吃！



Now that they can finally speak, Giwas loudly exclaims that the food was  
so delicious!







sa pasemalavi ti Muni ni Qipu, tu muri patagiljanga sikalja alibangbangan,  
nu madjaljun tuazua ki izuaanga tjakanen a alibangbang aya.



si Masagaz 告訴吉娃斯, 飛魚季就要開始了, 到時候就有好吃的飛魚可以吃了。



si Masagaz tells Giwas that the flying fish season is about to start, which  
means soon there will be delicious flying fish to eat.

慢

原







ti Iljaw quriav uta tua keman. aicu a kayven a vuaq namaperaperav angata.



乃奈也吵著要吃。今天的晚餐真是太歡樂了。



Nainai wants to try some too. Everyone shared such a happy meal today!

慢

原



一般單詞

中文	詞性	族語
拍攝	動詞	sinipaqailjungan
觀察	動詞	kileqeleq
散佈	動詞	nasetatalj
探測	動詞	kikeljang
水氣	名詞	liljaliljav
照射	動詞	macedas
地下屋	名詞	umaq i tariteku
一層一層	量詞	namatatudutudur
累積	動詞	matjaveng
流動	動詞	lemulu
預感	名詞	sikiliguan
預報	名詞	sirupasusangas a pakeljang
端上	動詞	patjavang
新奇的	形容詞	seleva
歡樂的	形容詞	namaperaperav

中文	詞性	族語
衛星	名詞	kalunulunung
地球	名詞	salingualj a kadjunungan
雲層	名詞	tjaretjar nua qerepus
高氣壓	名詞	sebek
低氣壓	名詞	sebesebek
分子	名詞	djemdjem
凝結	動詞	sikamazenguan
浮力	名詞	sisetjavav



科學單詞



# 吉娃斯愛科學 排灣族語 (中排灣語)

## 第02集 智慧地下屋

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 Muni Kadrangian (慕妮·卡拉雲漾)  
族語配音 Muni Kadrangian (慕妮·卡拉雲漾)  
族語翻譯審查 Ljavuras Kadrangian (拉夫琅斯·卡拉雲漾)、 Camak Paljailjay (朱志強)

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

