

Umfungozezo welanga ka Nomkhubuwana.
izinhlobulo vezahlukene zezishom
zyaholakala erbusuku ngezikhath
ezahlukene zonyaka.
Abantu abami
mabhekana
kwizigungu
zomlata
bahlanezekile
mawupaqathhani
sa, kanti-futhomi
baboma izishomo
zihlanezekile.

IziNkanyezi zibonakala ebusuku
kuphela: emini, zisuke zifhiwe
ukukhazimula kwelanga.

Oryakeni, uvihlabu uzungeza ilanga
okudala ukutbi izingxale neezikhukene
zolikhathla zibonakale ngezikhatni
ezahikene zonyaka. (Bheka umdwabeo
ekhasini ellandelayo).

Imbulunga yezinkanyezi iyimbulunga
yokuziqambela ezimeke evihlabeni
lapho khona iziNkanyezi ezikhokhelwe
khona kanti-futhi zibonakala sengathini
zirayakaza khona.

Indleya yel-ang'a kwimbulunga

Iruledi na seBrazili,
IziNkanyezi zalo
ezama-27 zimele
izifundazwe zakhor
kanti zihielwe
ngendlela efanayo
naseMkhathini



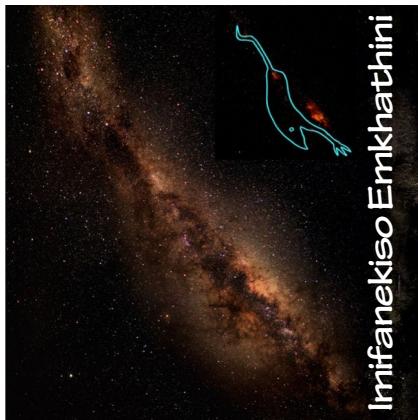
The flag of Brazil, featuring a green field with a yellow diamond-shaped canton containing a blue circle with white stars.



Kusukela emandulo abantu
babeqamba iziShomo-ikakhulukazi
amagama eziluwane noma
onkulunkulu babo-baphinde
bazakhela izinganekwane ngazo
lezoziShomo.

Isibomelo, isiShomo impambano
ngesinglesi ebizwa nge-Orion,
yaqesingwa ngamaGrikhi. Zinungi-
zinganekwane ezixoxwa ngayo i-
Orion, unkulunkluwana omuhle.
ososayensi baseShayina babazi
ngempambano beyibiza ngoShen,
umzingeli noma lqhawe.

lesis Shomo nonkulunkulu waboo u-Osinis, Abokungala ukuthi baviqamba kwakungama Sumeryeni; baviqamba ngo-Uru An-na, okusho ukuthi 'ukukhanya kwezulu.



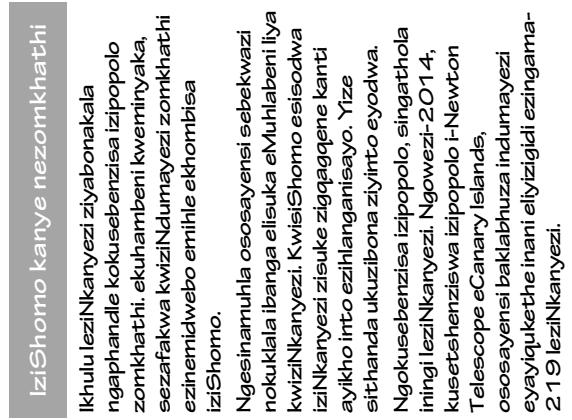
Grażyna Stasínska
Paris Observatory



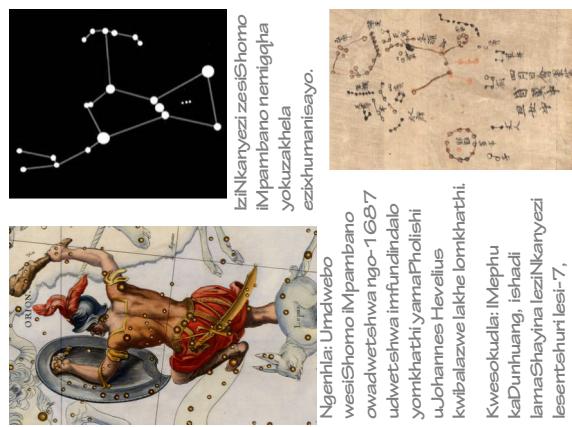
UMKHATHLIBE EPHAKETHEKI LAMI

The figure consists of six separate phylogenetic trees arranged in two columns of three. Each tree is drawn on a black background with white circular nodes representing isolates and lines representing evolutionary relationships. The labels for the regions are positioned vertically to the left of their respective trees.

- Izishomo ezidumile:** A tree with a single main branch that splits into two smaller branches towards the right.
- IBhubesi:** A tree with a central node connected to four other nodes, forming a star-like structure.
- Idadandlovu:** A tree with a central node connected to three other nodes, which then branch out.
- JFFezela:** A tree with a central node connected to three other nodes, which then branch out.
- Amawele:** A tree with a central node connected to three other nodes, which then branch out.
- Ufukwane:** A tree with a central node connected to three other nodes, which then branch out.



4
larnayınla təzil karşıyaçı
lesentşhuri lesi-7,
likhombisa işi Shomo
imPambano.



7

Impambano « eguqukezelwe »
Izinganekwane zakwamanye
amasiko zihlikile kakhluli.

Kusukela kuma Yolingu, abomdabu
base-Australia, Impambano
iyisiklebhe esiphethe izinsizwa
ezintathu ezilamanyo
ababeyodoba. Oyedwa wabo wadla
inHlanzi ababengavuyelwe
ukuyiala. Ngokudinwa, inkosikazi
yelangai, yakha inKanyarriba
eyathatha isiklebhe esasithwele lezi
izelamani yasyile esilbhakabhaleni.

Inganekwane ehlikile exoxwa
ngabomdabu baseBrazil; isiShomo
sendoda simle indoda unKosikazi
wayo owayefela umfowabu.
Wabulala umyen i wakhe,
wamunqamula umulenze owo dwa.

Onkulkulu bamuzvula base
benushintsha bemanza isiShomo.

Icathamo lamaShayina, alisetshenzisela
ingboco, lihlukile kuncethamo
lasentshorhalanga 10

11

Ezmomkhathhi iziyasayensi edcha
iphinde izame ukugondisa a zone
izinto ezsikemkathini (imizulane,
iziNkanyesi, imithalakazi). Ukuhula
ngokusebenzisa icathamo akusiyo
isayensi. Ligabadelu ukutli
kunobudelwano phakathi kwendawo
ilanga elikuyona kanye nemizulane
kanye hezimphlo zapantu. Asikho
isizatjalo, kundufukazi obunungi
obukhombisa ukuthi lokhu akusilo
ipiso.

6

Amazonia,
yase-



Ezmomkhathhi kanye nokufundwa kwezinkanyesi

Umkhaththiile Ephaketheni Lami No.5

IeNcwajana ihotshwe ngowezi-2015
ilotshwe uGrażyna Stasińska waseParis
Observatory (eFrans), yase inringiliza
uŞtan Kurtz wase UNAM Radio
Astronomy Institute emMorelia
(eMeksiko).

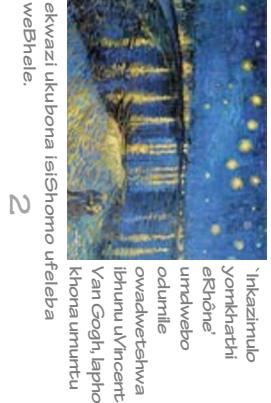
Iethombe esisekhaveni sikhombisa
umruwebo "iruu esemkhaththini", isiShomo
esikhona cishie kuwona wonke amasiko
abomdabu base-Ostrelija. Asichazwa
iziNkanyesi kepho sischazwa amabala
amunyama abonakalayo mawuqhathanisa
neNdlela entusi.

Ukuze ufunde kabanzi
ngalotu uchungechunge
kanye nesihliko esithulwe
kuleNcwajana, sicela
uvakashere

ukuhumeha NhanhlaMbombo
<http://www.tuimp.org>
TUIIMP Creative Commons

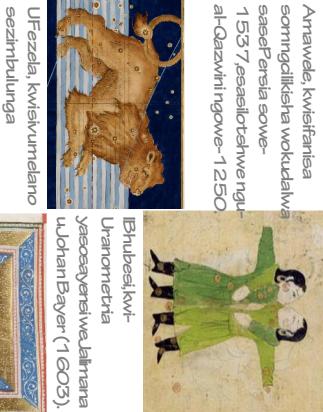
lyona ndlela imfundondalo
yezomkhathhi eyaqala ngayo.

2



Lomdwewe
oliringanewa kwizi-
saeParisa sowe-
osentabeni Lascaux
eFrans, uKhombisa
loqo tezinKanyesi
elihzwangseesilime.

Isicaka esatholakala eJallihane
esekholeluwa ukuthi senzawa
eritryakeni evizi-4000 eyedule
sikhombisa illanga, iNyanga,
kanye neenKanyeri ezithnubawa,
okubalwa kuzora resiliMema.



Anawele, kwififantisa
soringcikleka wokudalwa
saeParisa sowe-
1537, esasibolethe nau-
al-Qazvini ngowe-1250.

Ufezela, kwisavumelano
sidwetelwe ngu-Andalac
di Negro ngowe-1330.

Inkazirnu
yomkhathi
eRhône
undwebo
odumile
owadvetelwa
ibrunu uVincent
Van Gogh, lapho
khona urntutu

ekwazi ukubona isiShomo ufeleba
ewBhele.