UMkhathilibe Ephaketheni Lami

Imifanekiso Emkhathini

TUIMP No.5 THE UNIVERSE IN MY POCKET

Grażyna Stasińska
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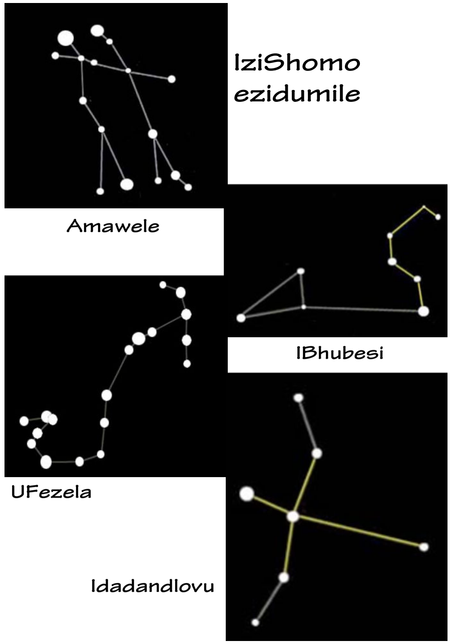
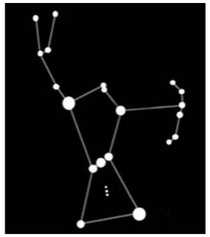
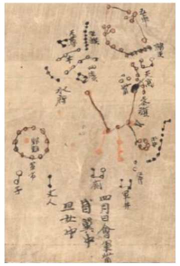
IziShomo ezidumile





IziNkanyezi zesiShomo iMpambano nemigqha yokuzakhela ezixhumanisayo.



Ngenhla: Umdwebo wesiShomo iMpambano owadwetshwa ngo-1687 udwetshwa imfundindalo yomkhathi yamaPholishi uJohannes Hevelius kwibalazwe lakhe lomkhathi.

Kwesokudla: IMephu kaDunhuang, ishadi lamaShayina leziNkanyezi lesentshuri lesi-7, likhombisa isiShomo iMpambano.

IMpambano : Isishomo esidumile

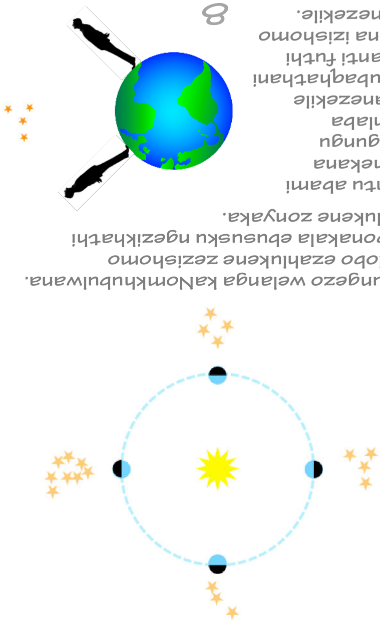
Kusukela emandulo abantu babeqamba iziShomo-ikakhulukazi amagama eziIwane noma onkulunkulu babo-baphinde bazakhela izinganekwane ngazo lezoziShomo.

Isibonelo, isiShomo impambano ngesingisi ebizwa nge-Orion, yaqanjwa ngamaGrikhi. Ziningi izinganekwane ezixoxwa ngayo i-Orion, unkulunkulwana omuhle.

ososayensi baseShayina babazi ngempambano beyibiza ngoShen, umzingeli noma lqhawe.

AbaseGhibithe babematanisa lesisiShomo nonkulunkulu wabo u-Osiris.

Abokuqala ukuthi bayiqambe kwakungamaSumeriyeni; bayiqamba ngo-Uru An-na, okusho ukuthi 'ukukhanya kwezulu'.



Umzungezo welanga kaNomkhubulwana. Izinhlobo ezahlukene zezishomo ziyabonakala ebusuku ngezikhathi ezahlukene zonyaka.

Abantu abami mabhekana kwizigungu zomhlaba bahlanezekile mawubaqhathani sa, kanti futhi babona izishomo zihlanezekile.

UMkhathi ezikhathini ezahlukene

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

Onyakeni, uMhlaba uzungeza iLanga okudala ukuthi izingxenye ezahlukene zoMkhathi zibonakale ngezikhathi ezahlukene zonyaka (Bheka umdwebo ekhasini elilandelayo).

Imbulunga yezinkanyezi iyimbulunga yokuziqambela ezimeke eMhlabeni lapho khona iziNkanyezi ezikhokhelwe khona kanti futhi zibonakala sengathi zinyakaza khona.

Indlela yeLanga kwimbulunga yezinkanyezi iyindilinga enqamula kwiziShomo ezisondelene nesicaba somjikezelo somhlaba ekuyingelezeni kweLanga. Lendlela ibizwa ngecathamo.

Ifulegi laseBrazili likhombisa iziShomo, okukhombisa ukubaluleka koMkhathi kuBantu, ngisho nangesimanje-manjethe

Ngo-1927 kwabanjwa umncintiswano wokukhetha ifulegi lase-Alaska. Umngobi kwaba uBenny Benson, umfana oneminyaka eyi-13 wase-Alaska. Wabhala wathi: `Inkanyezi yasenyakatho iyikusasa le-Alaska, esenyakatho kakhulu kwinyunyana. Isidwenguli esafeleba weBhele—esikhombisa amandla.

Ifulegi laseBrazil. IziNkanyezi zalo ezama-27 zimele izifundazwe zakhona kanti zihlelwe ngendlela efanayo naseMkhathini obonakala eBrazil.

IziShomo kanye nezomkhathi

Ikhulu leziNkanyezi ziyabonakala ngaphandle kokusebenzisa izipopolo zomkhathi. ekuhambeni kweminyaka, sezafakwa kwiziNdumayezi zomkhathi ezinemidwebo emihle ekhombisa iziShomo.

Ngesinamuhla ososayensi sebekwazi nokuklala ibanga elisuka eMuhlabeni liya kwiziNkanyezi. KwisiShomo esisodwa iziNkanyezi zisuke ziggagqene kanti ayikho into ezihlanganisayo. Yize sithanda ukuzibona ziyinto eyodwa.

Ngokusebenzisa izipopolo, singathola iningi leziNkanyezi. Ngowezi-2014, kusetshenziswa izipopolo i-Newton Telescope eCanary Islands, ososayensi baklabhuza indumayezi eyayiqukethe inani eliyizigidi ezingama-219 leziNkanyezi.

Lomdwebo olinganiselwa kwizi-17,000 ubudala osentabeni iLascaux eFransi ukhombisa iqoqo leziNkanyezi elibizwa ngesiLimela.

Isicaba esatholakala eJalimane esikholelwa ukuthi senziwa eminyakeni eyizi-4000 eyedlule sikhombisa iLanga, iNyanga, kanye neziNkanyezi ezimubalwa, okubalwa kuzona nesiLimela.

`Inkazimulo yomkhathi eRhône' umdwebo odumile owadwetshwa ibhunu uVincent Van Gogh, lapho khona umuntu ekwazi ukubona isiShomo ufeleba weBhele.

Amawele, kwisifanisa somngcilikisha wokudalwa sasePersia sowe-1537,esasilotshwe ngu-al-Qazwini ngowe-1250.

IBhubesi,kwi-Uranometria yasosayensiweJalimana uJohan Bayer (1603).

UFezela, kwisivumelano sezimbulunga sidwetshwe ngu-Andalo di Negro ngowe-1330 .

Idadandlovu, kwindumayezi yasomkhathi wamaNgisi uJohn Flamsteed (1729).

UMkhathilibe Ephaketheni Lami No. 5

LeNcwajana ilotshwe ngowezi-2015 ilotshwa uGrażyna Stasińska eseParis Observatory (eFransi) yase iningilizwa uStan Kurtz wase UNAM Radio Astronomy Institute eMorelia (eMeksikho).

Isithombe esiseKhaveni sikhombisa umdwebo "imu esemkhathini", isiShomo esikhona cishe kuwona wonke amasiko abomdabu base-Ostreliya. Asichazwa iziNkanyezi kepha sichazwa amabala amunyama abonakalayo mawuqhathanisa neNdlela entusi.

Ukuze ufunde kabanzi ngalolu uchungechunge kanye nesihloko esithulwe kuleNcwajana, sicela uvakashele uhttp://www.tuimp.org

ukuhumusha: Nhlanhla Mbambo

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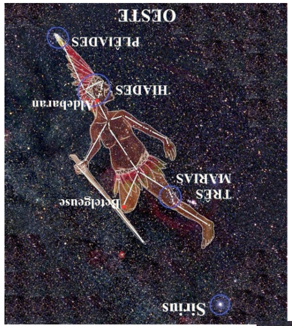
Uma ubuka umkhathi ebusku obuthe gwe, uzobona ukuthi iziNkanyezi kuba sengathi zidweba imidwebo thizeni.

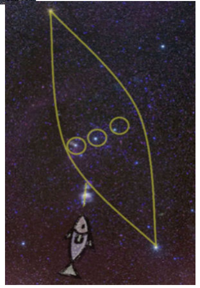
Lemidwebo, ebizwa ngeziShomo, ayishintshi nhlobo nobusuku. Kodwa-ke iyanyakaza : njengeLanga, iziShomo « ziyabalela » empumalanga ziphinde « zishone » entshonalanga. Umdwebo wonke uyagwebuka ngobusuku nobusuku kodwa utholakala endaweni efanayo emva konyaka owodwa.

Akuzumi nhlobo ukuthi kusukela emandulo, abantu bazo zonke izinhlanga babewubhekisisa umkhathi, owawudlala indima yomtholandlela enkathini kanye nasemkhathini.

Iyona ndlela imfundondalo yezomkhathi eyaqala ngayo.



Ikhehla igama lomdabu laseBrazili elisho isiShomo esakhiwe iziShomo iMpambano kanye noCwazibe (isithombe sithathwe emnyuziyemu yase-Amazonia.)



IsiShomo iMpambano ibukwa eningizimu nenkabazwe, lapho sibukeka sibheke phansi.

Isishishila somdwebo wengwanekwane abantu base-Australia abayibunganisa nalesi isiShomo.

IMpambano « eguqukezelwe »

Izinganekwane zakwamanye amasiko zihlukile kakhulu.

Kusukela kumaYolngu, abomdabu base-Australia, IMpambano iyisiklebhe esiphethe izinsizwa ezintathu ezilamanyo ababeyodoba. Oyedwa wabo wadla iNhlanzi ababengavunyelwe ukuyidla. Ngokudinwa, inkosikazi yelanga, yakha iNkanyamba eyathatha isiklebhe esasithwele lezi izelamani yasiyisa esibhakabhakeni.

Inganekwane ehlukile exoxwa ngabomdabu baseBrazil: isiShomo sendoda simele indoda uNkosikazi wayo owayefela umfowabo. Wabulala umyeni wakhe, wamunqamula umulenze owodwa. Onkulunkulu bamuzwela base bemushintsha bemenza isiShomo.

Isiwahla sesentshuri lesi-6 esikhombisa iSondo lesicathamo elinemidwebo yamaGrikhi.

Icathamo lamaShayina,lalisetshenziselwa ingoboco, lihlukile kunecathamo lasentshonalanga

Ezomkhathi kanye nokufundwa kwezinkanyezi

Igama elithi icathamo lidume kakhulu ngenxa yobudlelwano elinabo nokubhula ngokusebenzisa indawo lapho iLanga lisuke likhona kwicathamo ngosuku lakho lokuzalwa. Ababhali balemibhulo babizwa ngezicathamo, kanti bahlukile kunezimfundindalo zomkhathi!

Ezomkhathi ziyisayensi echaza iphinde izame ukuqondisisa zonke izinto ezisemkhathini (imizulane, iziNkanyezi, imiThalakazi). Ukubhula ngokusebenzisa icathamo akusiyo isayensi. Ligabadela ukuthi kunobudlelwano phakathi kwendawo ilanga elikuyona kanye nemizulane kanye nezimpilo zabantu. Asikho isizathu sokuthi lokhu kubenjalo. Inganinjalo, kunobufakazi obuningi obukhombisa ukuthi lokhu akusilo iqiniso.