Indigenous Astronomy, communicating back to communities what belongs to them















Dr Anton Binneman











Research practice and the death of Indigenous Astronomy, the case of the central Karoo

Paper will be published in a book 2024

The Authoritative Guide to South African Indigenous Knowledge Systems for Teachers. Via Africa











Introduction

Indigenous Astronomy

South Africa has several different Indigenous astronomies. This study looked at one of the older Indigenous astronomies. Bleek and Lloyd(1830-1880) documented many Xam Bushmen stories. Scholars like Jose Manuel de Prada-Samper, John Parkington, David Morris, Niel Rush, and Jarita Holbrook, to name a few, extensively researched these stories.

Thus, the expectation is that it would be easy to find and document the stories told over the last 5000 years.







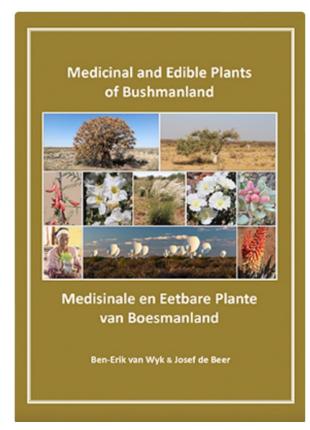


Introduction

A lot is written about indigenous astronomy in the area.

The research conducted for this paper was to document the Indigenous stories told in the area.

This would then be distributed to local communities at no cost We have done this before with Medicinal plants.



Medicinal plant study





Introduction

Medicinal and Edible Plants of Bushmanland



Medisinale en Eetbare Plante van Boesmanland

Ben-Erik van Wyk & Josef de Beer



A, View uver Bushmanland new Yannykovlef Utslig oor Boesmanland nalay Vannykovlef; B, Inditional mush bouse at Swartog/ Tradisional modernia by Swartog; C, outside broom made from biesiped (Afforcation) bi

The Xmm people of the Nama-Karoo is, according togenetic evidence, the oldest cultural group on earth. The precious veld lore that they have passed on to their descendants and to other cultural groups is therefore of global importance and must be preserved for the benefit of all humanity. About 2000 years ago, nomadic khol herders moved into the Karoo and practised transhumance to reach the best grazing for their animals. Since the 17° century, the Karoo has been colonised by Europeans and became to a large extent culturally integrated with the local population. In this way a unique lifestyle developed, based on livestock farming (especially steep). Afrikasans almost

Die Nam mense van die Nama-Karoo is volgens genetiese geturient die oudste kulturele groep op aarde. Die kosbare weldkennis wat hulle aan hul nageslagte en aan ander kultureurgevoe orgedra het is dus van globale belang en moet vir die mensdom bewaar word. Ongeweer 2000 jaar gelede het nomadiese Khol herders in die Karoo inbeweeg en rondgetrek in seisoenale siklusse om die beste weiding vir hul diere te bereik. Sedert die 17de eeu, het Europieërs die karoo gekoloniseer en in 'n groot mate kultureel vermeng met die plaaslike bevolking. Sodoende het 'n eiesoortige lewenswyse ontstaan wat op vee-boerdey gesentreer is. Afrikaans het die San en Khoe tale



kraalaalwyn • kraal aloe

Aloe claviflora



Kraalaalwyn (Aloe claviflora): A, B, flowering plants/ blommende plante; C, kraal of aloes/ kraal van aalwyne; D, bitte aalwyn (Aloe ferox): plant in flower / plant in blom; E, aloe lump and aloe powder /aalwyn klonte en aalwyn sap

The 'kraal aloe' can easily be recognized by the inflorescences that are usually borne horizontally, hence the Afrikaans name kanonaalwyn ('canon aloe'') that is sometimes used. Another typical character is that the plant multiplies by side shoots (suckers) that gradually form a circle or kraal.

It appears that no uses have hitherto been recorded for this aloe. Infusions of the sap are taken orally a Swartkop to treat high blood pressure and diabetes. People at Brandviel use the dried and powered leaves against constipation. Leaves are chopped up and places in the drinking water of chickens to treat a respiratory allment called piep. The leaves and dried yellow sap of the bitter aloe of the southern Cape have similar uses.

The natural distribution area of the kraal aloe is restricted to Busmanland and the Karoo

Die kraalaalwyn kan maklik herken word aan die bloeiwyses wat gewoonlik horisontaal gedra word – vandaar die naam 'kanonaalwyn' wat soms gebruik word. 'n Ander tipiese kenmerk is dat die plant met behulp wan sytakke (suiers) vermeerder en mettertyd 'n kring of kraal vorm.

Daar is skynbaar tot nou toe geen gebruike vir hierdie aalwyn aangeteken nie. By Swartkop word aftreksels van die sap gedrink om hoë bloeddruk en suikersiekte te behandel. By Brandviel gebruik mense die gedroogte en verpoeierde blare teen hardlywigheid. Blare word gekerf en in hoenders se drinkwater geplaas om 'n respiratoriese siekte (piep) te behandel. Die bitteraallyyn of makaalwyn van die Suid-Kaap het soortgelyke gebruike.

Die kraalaalwyn se natuurlike verspreiding is beperk tot Boesmanland en die Karoo.

1. Aloe claviflora Burch.

Asphodelaceae











Methodology

Adapted Ethno Astronomy

Based on the Medicinal plant study

Snowball sampling

Walking from home to home

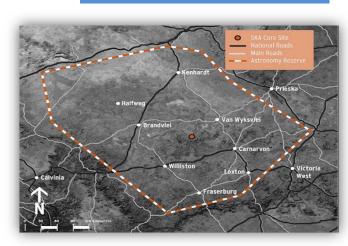
Astronomical objects were shown, and discussions facilitated

Towns included:

- Carnarvon
- Williston
- Vanwyksvlei
- Vosburg
- Loxton
- Swartkop



Exploring the moon



Research Area





Methodology

Bleek and Lloyd tested stories

ACHERNAR Digging stick star

ALDEBARAN The male Hartebeest

ALPHA ORION (BETELGEUSE) The female Hartebeest

AQUILA The great star

CANOPUS the Ant egg star

CASTOR AND POLLUX The Elands wife

CETUS the Orphan

CORONA AUSTRALIS The bush, hut, branch house, nest"

MAGELLAN CLOUDS Family of steenbok in this celestial body.

MILKY WAY This was made by one of the earliest Bushman girls, who threw ashes into the sky and ordered them to become the "Milky Way". She wanted a little light to be made so that the Bushmen would be able to return home (even) in the night; for, the earth, then, could not even be a little light; were it not for the Milky Way and the stars. The same girl also thought that she would throw up into the sky a certain root (which the Bushmen eat), so that it would become stars. The flesh of this root is, when young, white, and when old, red; – this makes some of the stars white, and others red."

MOMO "A constellation round the moon (a lunar rainbow) is the dust made by a dancing party that ascends and surrounds the moon"

MOON The moon was created by a being called | kaggen, who, once being inconvenienced by darkness, threw one of his shoes up into the sky to become the moon and to make light for him. The moon is red because the shoe was dusty with red dust, and cold because it is only skin (or leather). The moon is also looked upon as a male being; a man with whom the sun becomes angry (on account of his going out before him). The sun then stabs and cuts him with his (the sun's) knife, i.e. rays. These attacks are continued until the moon is reduced to a mere back-bone, which he entreats the sun to spare so that he may live to return home and see his children. "The Sun has mercy and spares the little piece, which goes home, and grows again to a full Moon; — when the stabbing and cutting process recommences. The wife and children of the Moon are in his house".

ORION Three female tortoises on a stick

PLEIADES "They are like Ostrich eggs; therefore, the Bushmen seek for Ostrich eggs, when they come out".

REGULUS or ALPHA LEONIS "Day's Heart's Child".

SIRIUS "to sing" and "honey",

SOUTHERN CROSS "Male Lions". The Lions themselves are Alpha and Beta Centauri, the Pointers as stated above. From all this one can deduce that the | Xam saw in the Southern Cross, or at least in part of it, a pride of lions.

SUN "The Sun was a man; but not one of the early races of people [...] He only gave forth brightness for a space around his own dwelling. Before the children threw him up, he had not been in the sky, but had lived at his own house on earth. As his shining had been confined to a certain space at, and round his own dwelling, the rest of the country seemed as if the sky were very cloudy; as it looks now, when the Sun is behind thick clouds. The sky was black (dark?). The shining came from one of the Sun's armpits, as he lay with one arm lifted. When he put down his arm, darkness fell everywhere; when he lifted it up, it was as if day came. In the day, the Sun's light used to be white; but at night it was red, like a fire. When the Sun was thrown up into the sky it became round, and never was a man afterwards." Before being thrown into the sky, the Sun was called "Sun-armpit"

VENUS "the Day-break's Great Star".





Main findings

1 2 3 4 5 ...

Indigenous Astronomy

Despite a massive amount of academically published work, very little to nothing remains of the Stories described by Bleak and Lloyd's informants.

Follow

Share

Woordeboek Afrikaans-/Xam - /Xam-Afrikaans

Book January 2021 · 32 Reads

Peter Raper

/Xam is die taal wat gepraat is deur die /Xam-Boesmans wat binne menseheugenis suid van die Oranjerivier gewoon het, in die gebied wat vroeër bekend was as die Kaapkolonie. Mettertyd het Hollands en later Afrikaans hulle taal van voorkeur geword,...

Request full-text

Recommend Follow Share

From this, the title of this Paper

Decolonising the death of Ixam: tracking the origins of the language of folklore in the Karoo

Thesis June 2022 · 212 Reads · 7 Citations

Luan Staphorst

he origins of the

This dissertation presents a critique of the discourse of death that permeates all-things |xam, one of the Khoesan languages once spoken

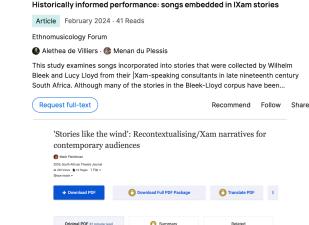
across southern Africa. To this end, the dissertation firstly presents a...

| Download | Recommend |



Not surprisingly, considering that they comprise so rich a record of the language and

orature of a culture that has all but disappeared, the materials that resulted from the combined efforts of Wilhelm Bleek, Lucy Lloyd, and /Xam informants such as //Kabbo,



Bushma	n Letters: Interpreting /Xam Narrative (review)		
Article	January 2011 · 11 Reads		
Research	in African Literatures		
Annie	Gagiano		
found in	n narrative" referred to in the title of Michael Wessels's path-br the famous archive recorded by the German philologist Wilhelm ister-in-law Lucy Lloyd in colonial Cape Town during the 1870s,	Bleek and	d his
Poque	Recommend	Follow	Share



|XAM SKYLORE OF THE KAROO DESERT, SOUTH AFRICA

Jarita Holbrook¹ and J. M. de Prada-Samper²
Associate Professor, Physics Department, University of the Western Cape
Research Associate, Department of Archaeology, University of Cape Town

Received: 18/01/2016 Accepted: 30/01/2016	Corresponding author: Jarita Holbrook (astroholbrook@gmail.c
--	--

ADCTDACT

ASSIGNATION CONTRIBUTION OF THE PROPERTY OF TH









Some publications





Main findings

Stories Identified

The workshops and visits were facilitated over seven days in October 2023. The stories identified could be sorted into the following categories:

Nature Rhythms and Cycles

Ghosts and the spiritual dimension

Different versions of the Water Snake

Objects that move in the sky











The moon and the Sun explained





Stories

The Moon

The Vulture Flying into the Moon:

In Brandvlei, this story was told: A vulture once wanted to see how high and fast it could fly. While flying very fast and looking back to the Earth, the vulture crashed into the Moon. If we look at the moon today, we can still see the vulture's feathers sticking to it.

The Moon in predicting rain:

The participants told a few stories about the Moon and rain. They said that when there is a "moonbow", it means that rain is close. This phenomenon is often observed in the area where a round "rainbow" appears around the full moon. When this happens, they know that planting time is close and that it will rain.



MeerKAT and the Hemel straat





Stories

Venus

The Evening and Morning Star:

This narrative is repeated most often by the Morning and Evening stars. Participants indicated that these "stars" showed a rhythm; it indicated when the day was about to start when the day would end, and when night would come. They said that this is also called Venus. This narrative is consistent with the documentation of Bleek and Lloyd and could be linked back to the Xam idea of a star that brings the day. Community members told stories of how parents and grandparents would wake them up to start their day when this star appeared.



Stories

False dawn or Zodiacal light and the "Waterslang":

The Zodiacal light was described by participants as "Invaltyd", or translated as a time to get started; the old people knew that this was the time to get up and make coffee. They were describing another rhythm that needs to be followed, like that indicated by the morning star.

More significant is the link to the story of the water snake or "Die Water Slang". This story was told in some form in every community where workshops were held.



Recommendations

Researchers

Researchers have an ethical obligation to give knowledge collected back to the communities where it was collected. Otherwise research

Astro guide development

Carnarvon Astro Guides

Focused on Indigenous astronomy and stories documented

Cultural events

Screening of films like Aitsa

Cultural Astronomy Festivals October 2024

Regular discussions with Elders and knowledge-holders







Astro Guides





Karoo Dark-skies



