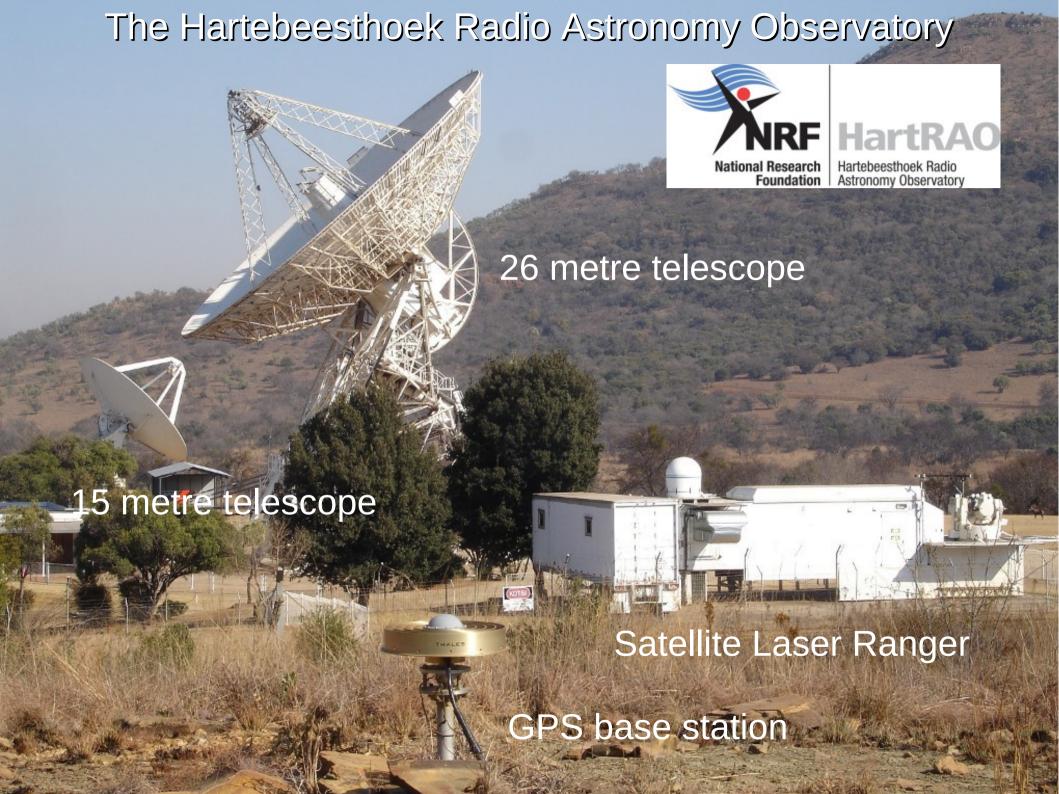


## VLBI in Africa

Jonathan Quick<sup>1</sup>, Jasper Horrel<sup>2</sup>, Venkatasubramani L. Thondikulam<sup>2,3</sup>

<sup>1</sup>Hartebeesthoek Radio Astronomy Observatory <sup>2</sup>SKA-SA project, <sup>3</sup>AVN



#### New VGOS Antenna





## New VGOS Antenna





Funding for antenna secured

Call for proposals imminent

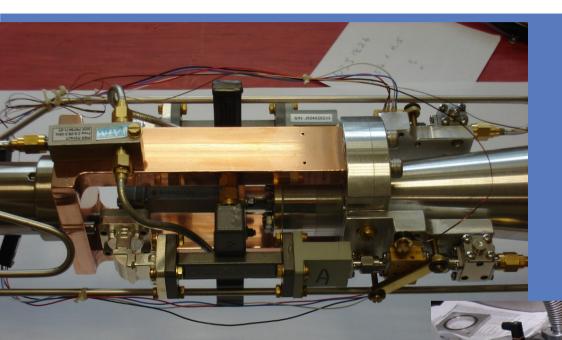
EIA requirements being assessed

Geotechnical siting study complete

RFI survey on site in progress

# Cryogenic K-band reciever





**SEFD** ~1000Jy

Installed May 2014 (still improving pointing)

## KAT-7



Busy commisioning coherent beamformer

No FS control to be implemented

Ability to write to disk in VDIF format

For testing in late 2014

Receiver lifetime estimated to be till end 2015

10GE link to Cape Town



## MeerKAT



Array infrastructure at advanced stage

One antenna erected with L-band (and Ku) feeds

Next antenna by year end, two more by Mar/Apr 2015

16 station backend (with coherent beamformer) by Aug 2015

## MeerKAT





#### **AVN**





Kuntunse, Ghana





Mwembeshi, Zambia



Longonot, Kenya





## Kutunse, Ghana





## Kutunse, Ghana



Two input DBBC2 under test at Hartebeesthoek Matching Mark5B+ recorder about to be delivered

Recabling/repainting being handled by Ghanaian GSTTI

SA signal chain work party visit delayed due to nonessentrial travel ban in place for Ebola

Antenna control & monitoring still being (re-)developed on mock ups in Cape Town

#### **VLBI** in Africa



Questions?