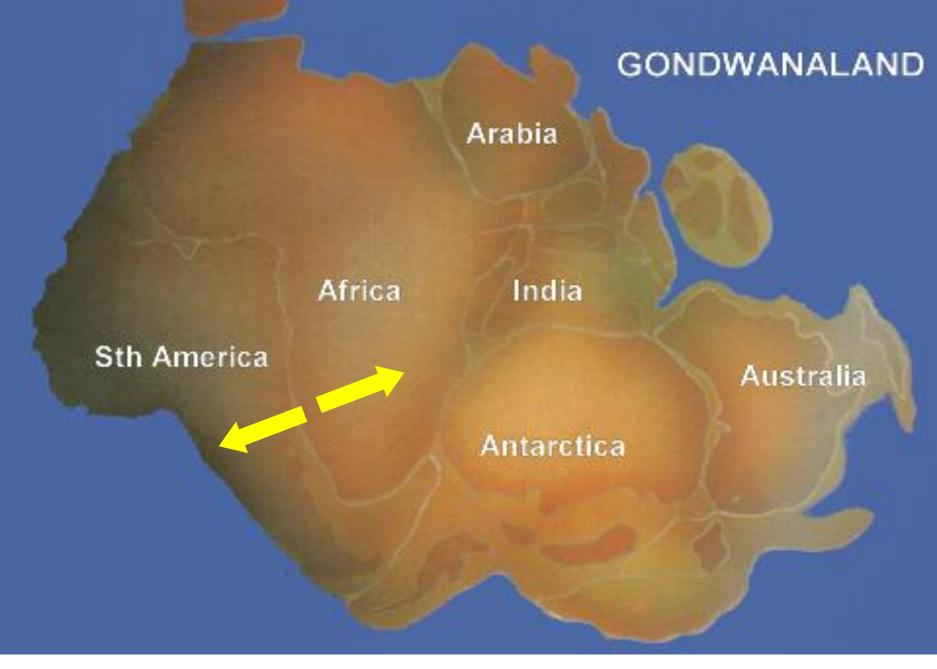


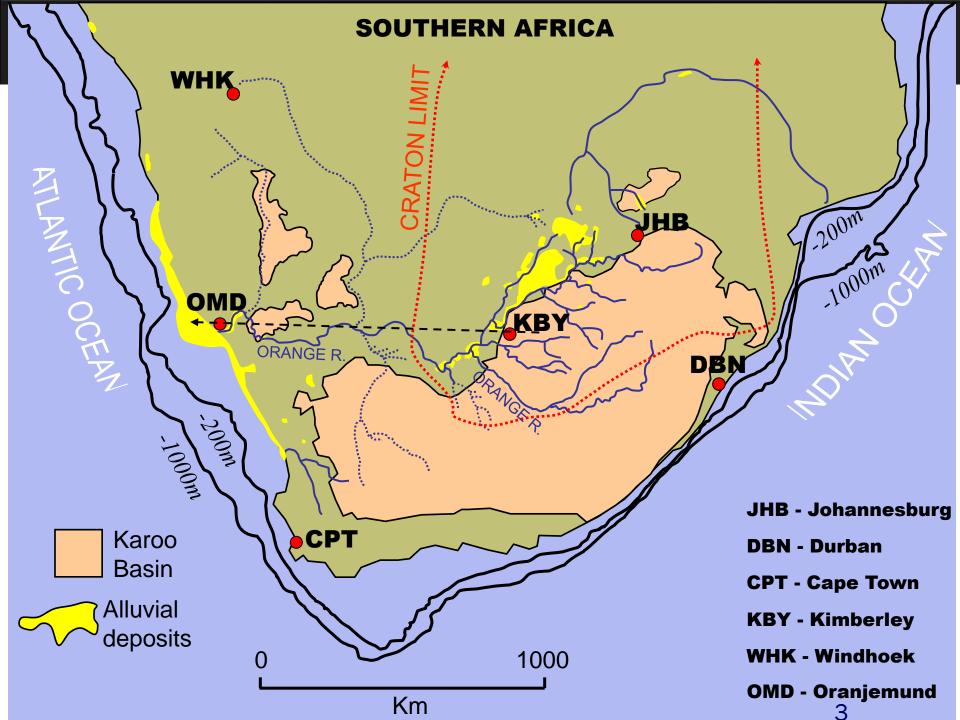
THE SAMPLING JOURNEY OF THE MEGA PLACERS DEPOSITS OF NAMIBIA

Maria Mufenda NAMDEB DIAMOND CORPORATION (PTY) LTD

November 4, 2014



130 million years ago



Continental uplift, incision and gradual drying of the climate (erosion of kimberlites in the catchment)



by 42 million years ago

From source to sink

(98%)



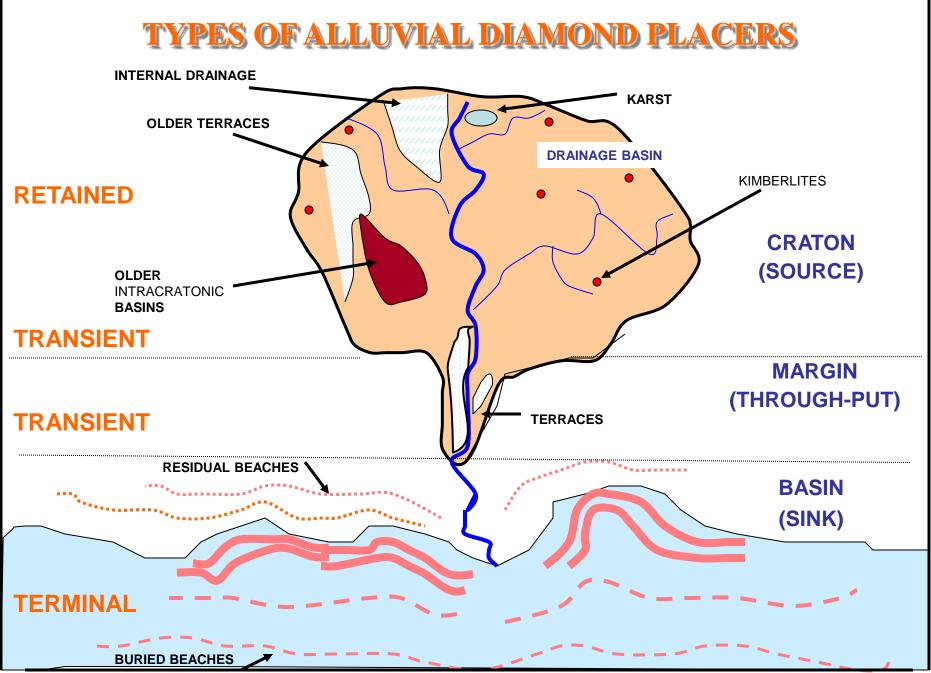




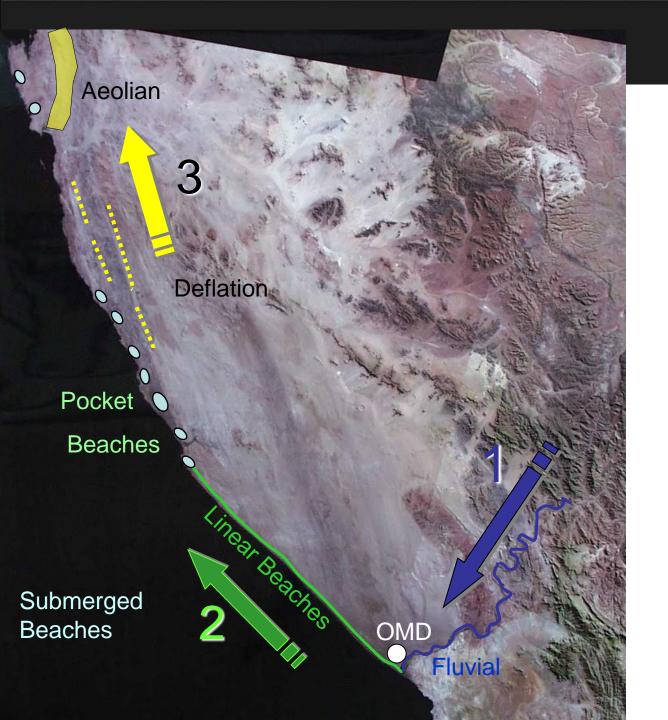


(40-55%)

5



From Bluck, Ward & De Wit, 2005

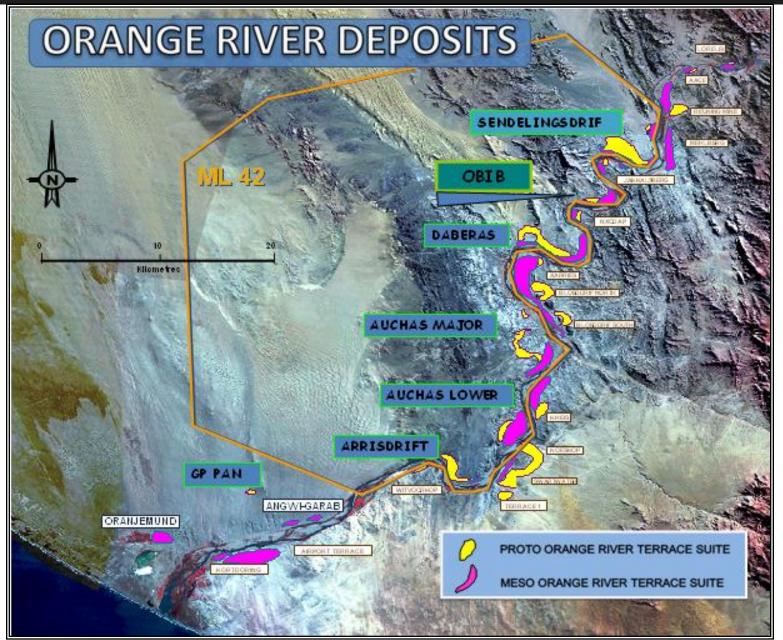




PLACER TYPES

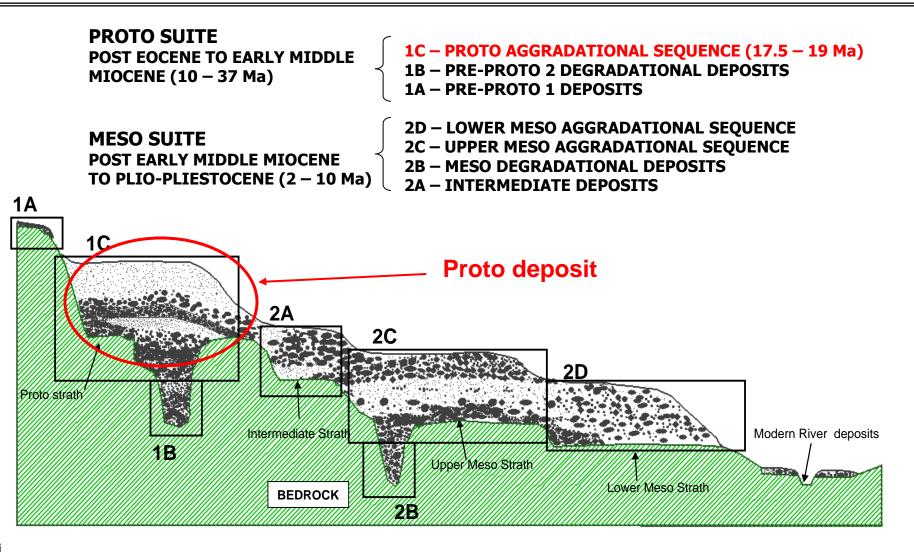
Locality Map



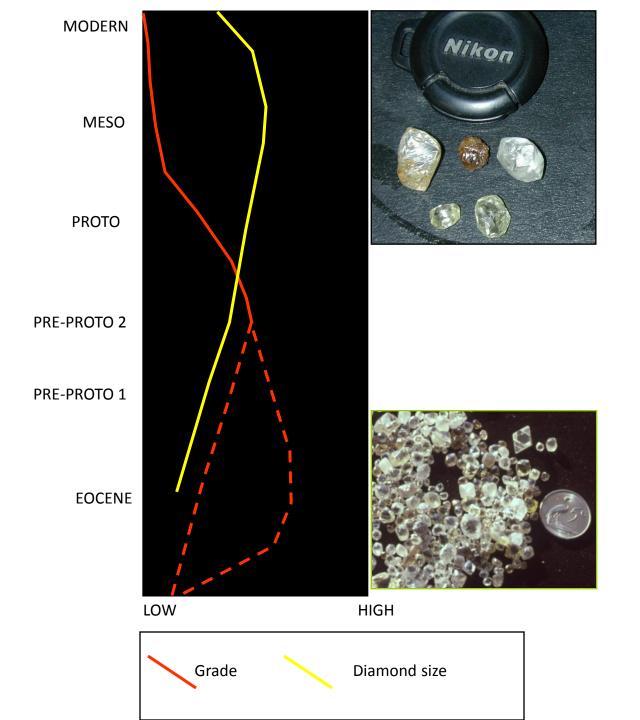


Fluvial Sequence



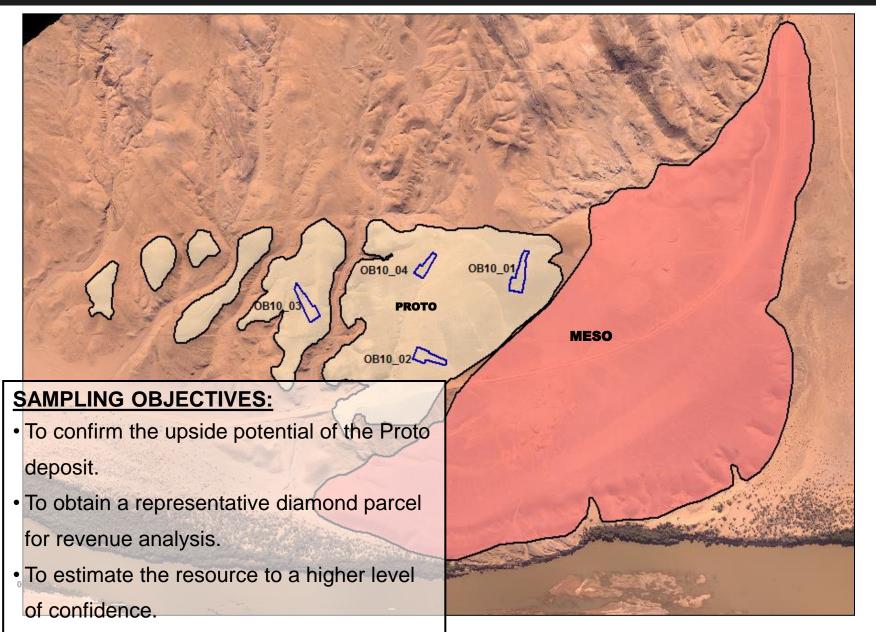


Sequence of Orange River deposits at one locality. Jacob, R.J., 2005.



Obib Bulk Sampling





Sampling







Sample Pit 2





Screening







Treatment





Treatment cont...

Silo Truck



 Continuous tracer testing & simulant spiking

OREX Concentrate Bin

Recovery

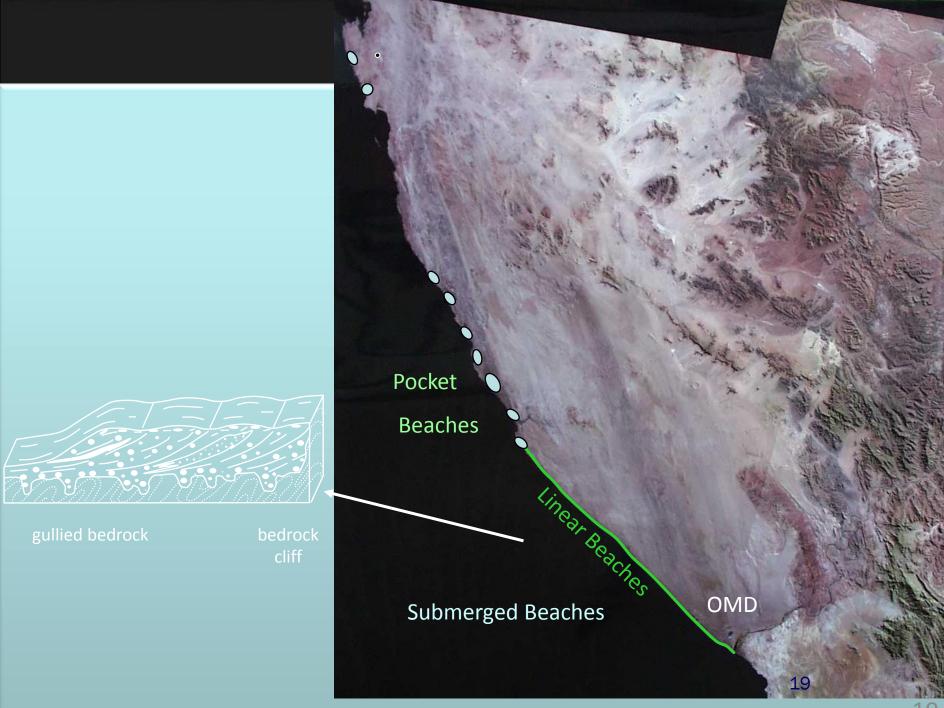




Geological Laboratory

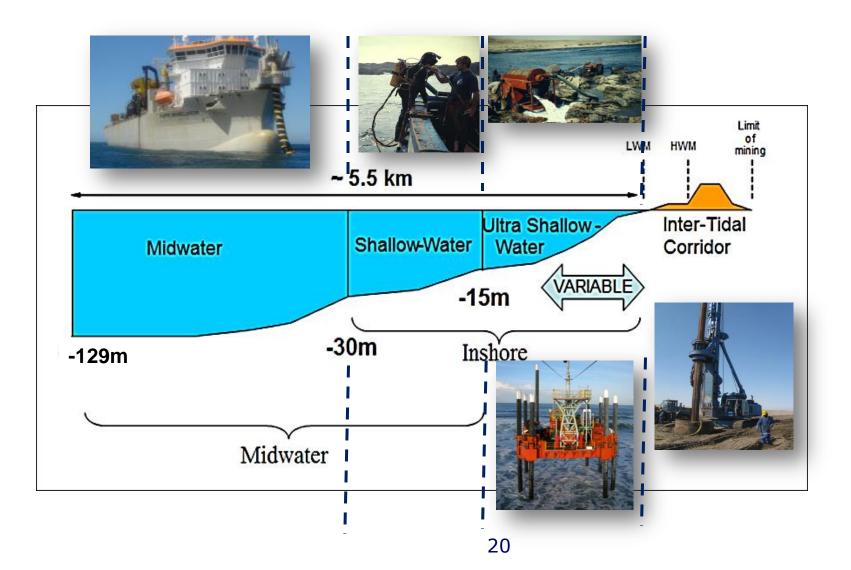


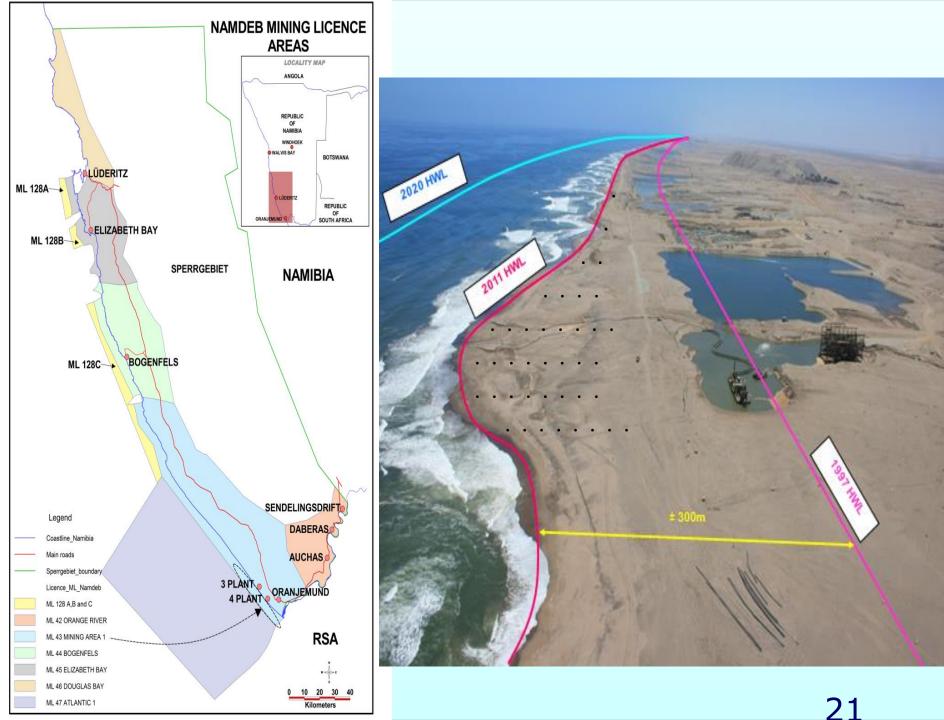
- Latest Technology
- Red Area Security
- Sample Integrity



Marine Exploration







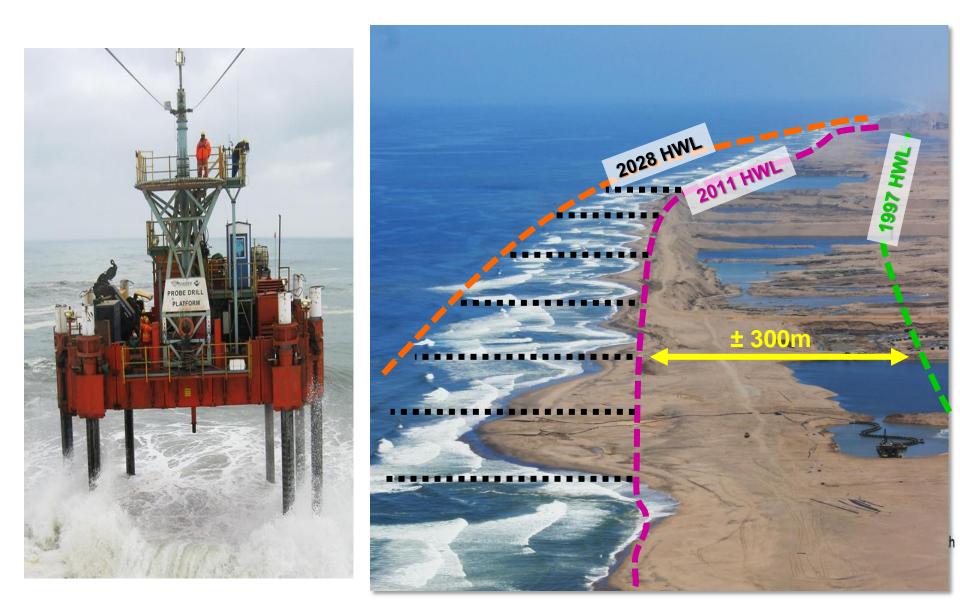
BG36 SAMPLING





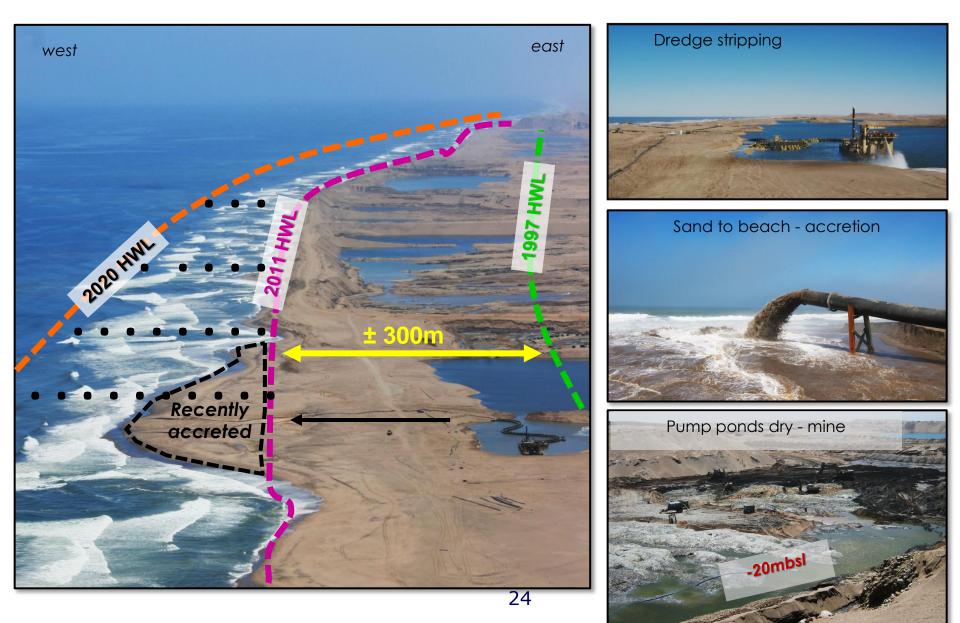
Exploration of Surf Zone





Exploration of Surf Zone





Exploration of Surf Zone



Aerial ropeway transfer takes 3 min



Drilling 25m hole takes max 2 hours

Platform manned by 5 persons

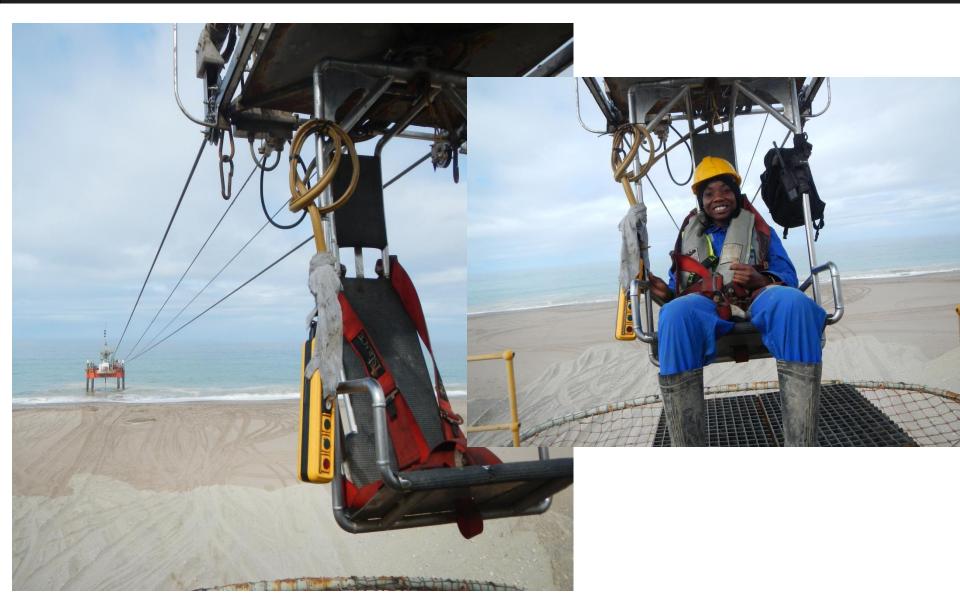






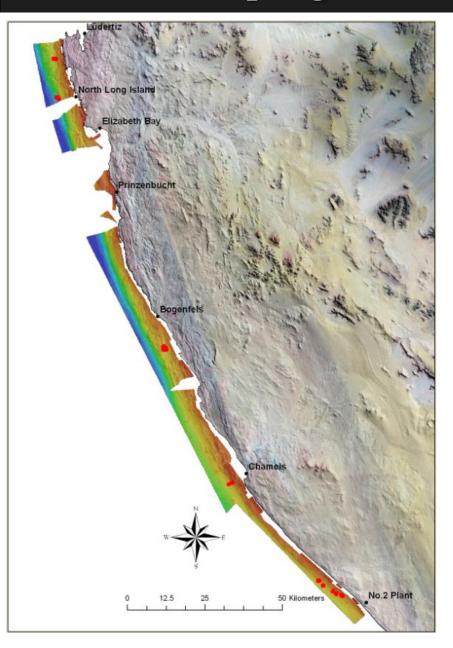


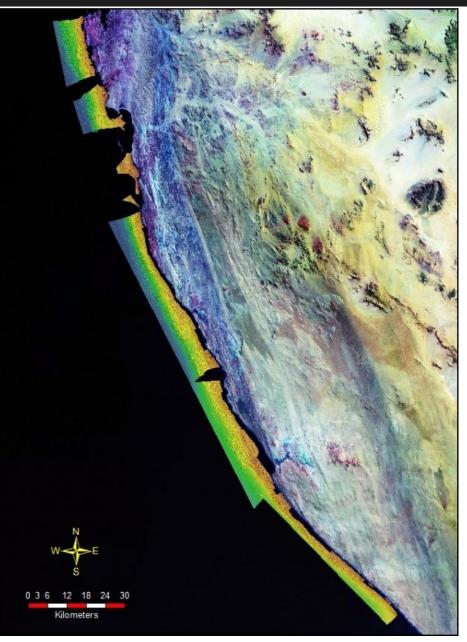




Midwater Sampling







Midwater Sampling





Environmental Overview



Restoration Ecology Programme : Sendelingsdrif



MAN & MACHINE RESTORATION EXPERIMENTS AT SENDELINGSDRIF

Field trials to figure out how to restore the area after mining Sendelingsdrif will be a future tourism area after we have mined it

AS WE MINE WE PLAN TO MEND

Environmental Rehabilitation: Scrap Removal Project Before & After



G64



Pocket Beaches Site 2 Before and After Mining















2014

Pocket Beaches 11 + 12 : During Mining





Concurrent Rehabilitation: Pocket Beaches 11 + 12





Backfilling

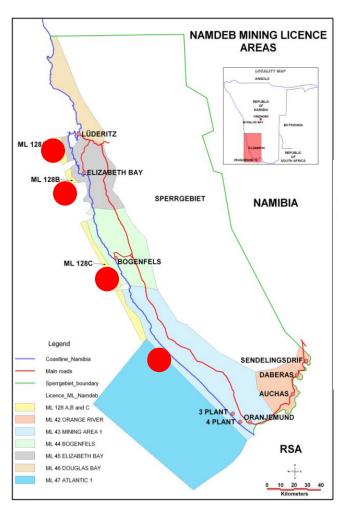
Re-vegetating

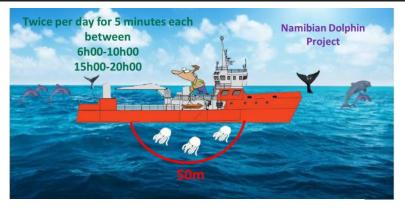
After



Exploration : Midwater









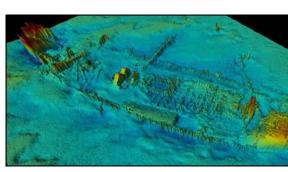
Visuals of the seabed & organisms on rocks sediments & the seabed with the sea

SOFT SEABED





HARD SEABED



Hard at work...













VIDEO CLIP

Questions?





THANK YOU!