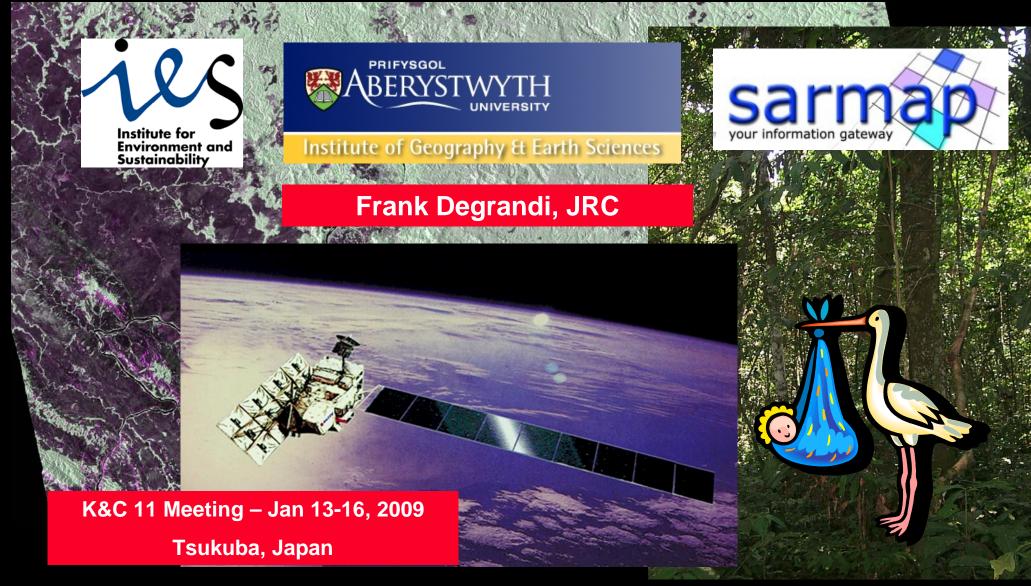
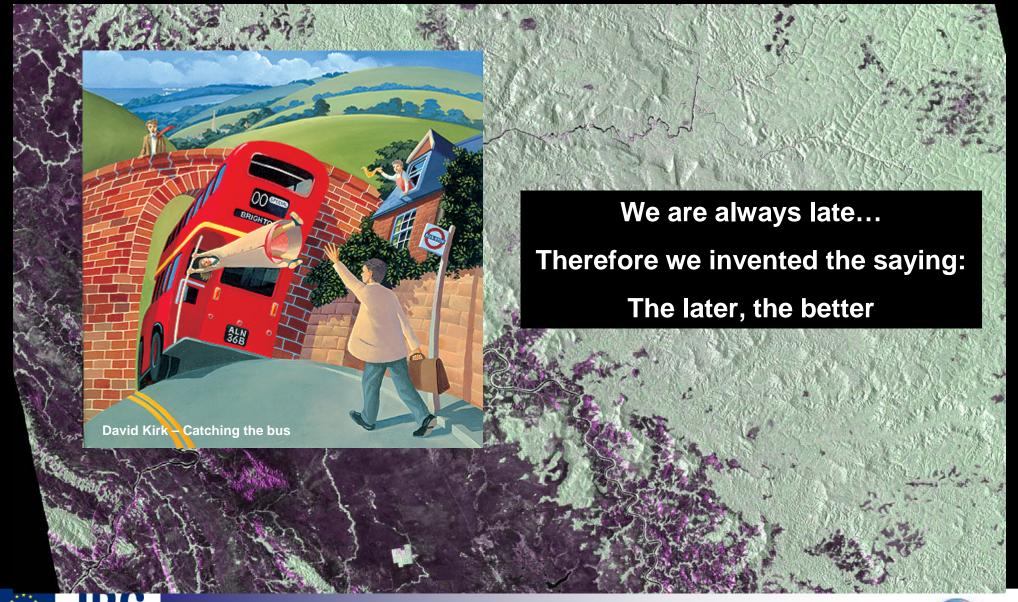
STATUS of the JRC K&C PALSAR AFRICA MOSAIC







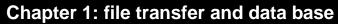
STATUS of the JRC K&C PALSAR AFRICA MOSAIC

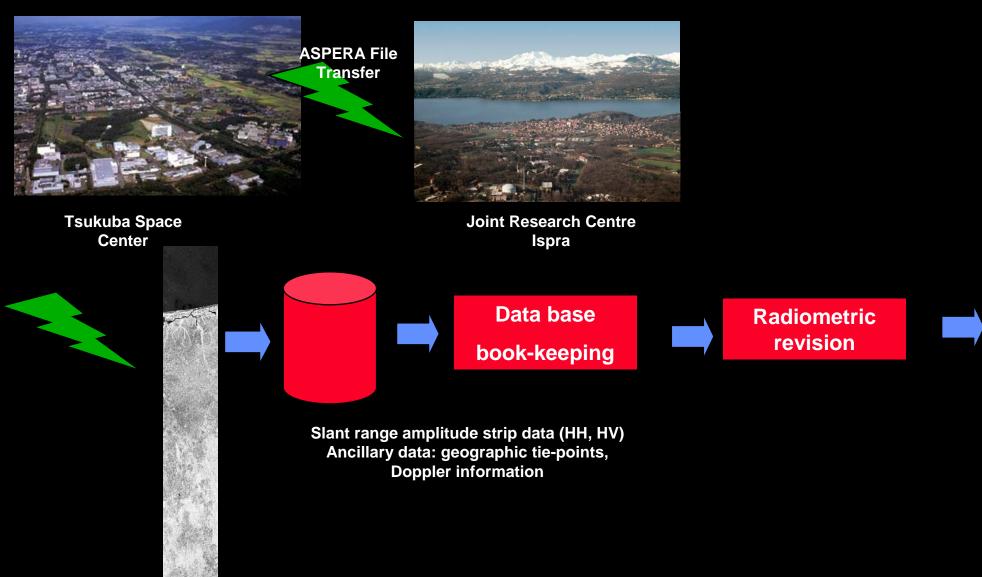






THE JRC K&C PALSAR MOSAIKING MACHINE









RADIOMETRIC REVISION

1st step: empirical range dependence correction

Assuming that effective scattering area (flat terrain) and range spreading loss corrections are performed by SIGMASAR processor in slant range data

CASE 1

Anomalous power drop at near or far range

Correction by empirical function of range distance

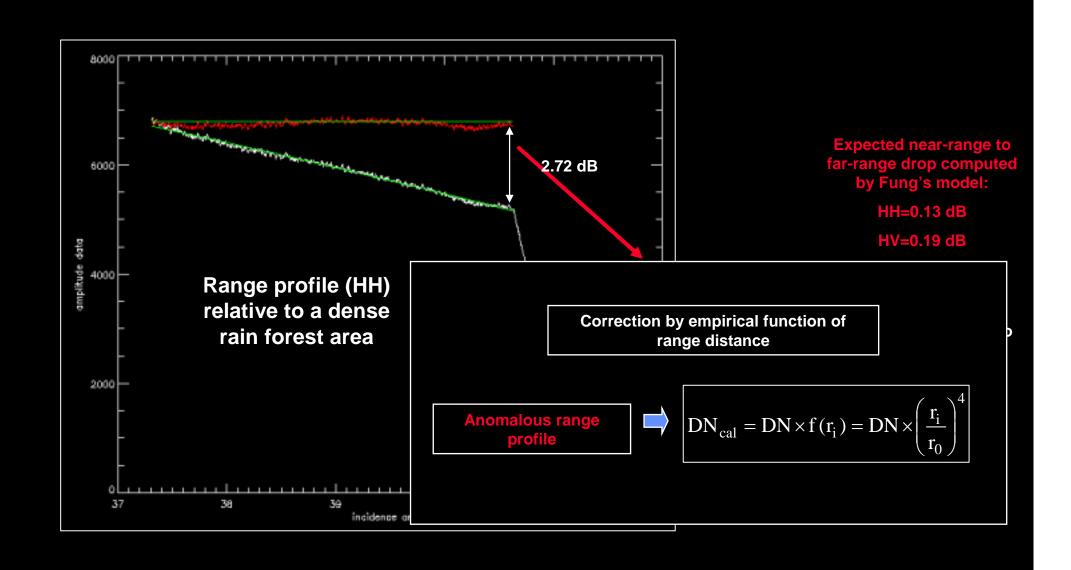
Two classes problem with fuzzy boundary

High backscatter -> no correction

Low backscatter -> correction by empirical (data driven) function of incidence angle

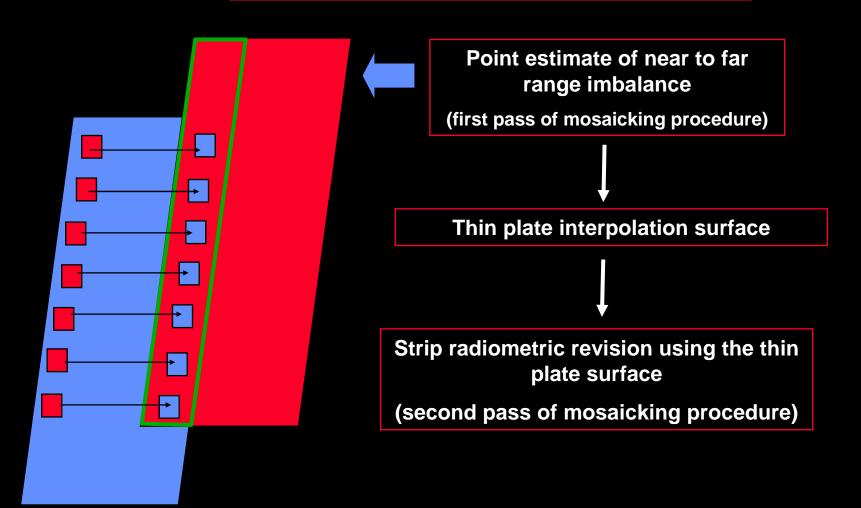
Correction for effects induced by topography delayed to the classification (interpretation) stage

REVISION OF ANOMALOUS POWER DROP IN RANGE



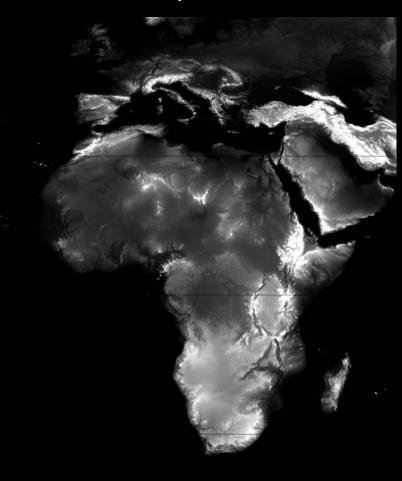
RADIOMETRIC REVISION

2st step: correction based on backscatter in interstrip homologous areas (under test)



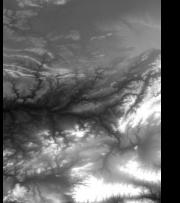
JRC global Africa DEM SRTM with auxiliary topographic data interpolation

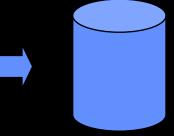
PER-STRIP DEM TILE EXTRACTION



Jarvis, A., H.I. Reuter, A. Nelson, E. Guevara, 2008, "Hole-filled SRTM for the globe Version 4, available from the CGIAR-CSI SRTM 90m Database: http://srtm.csi.cgiar.org.





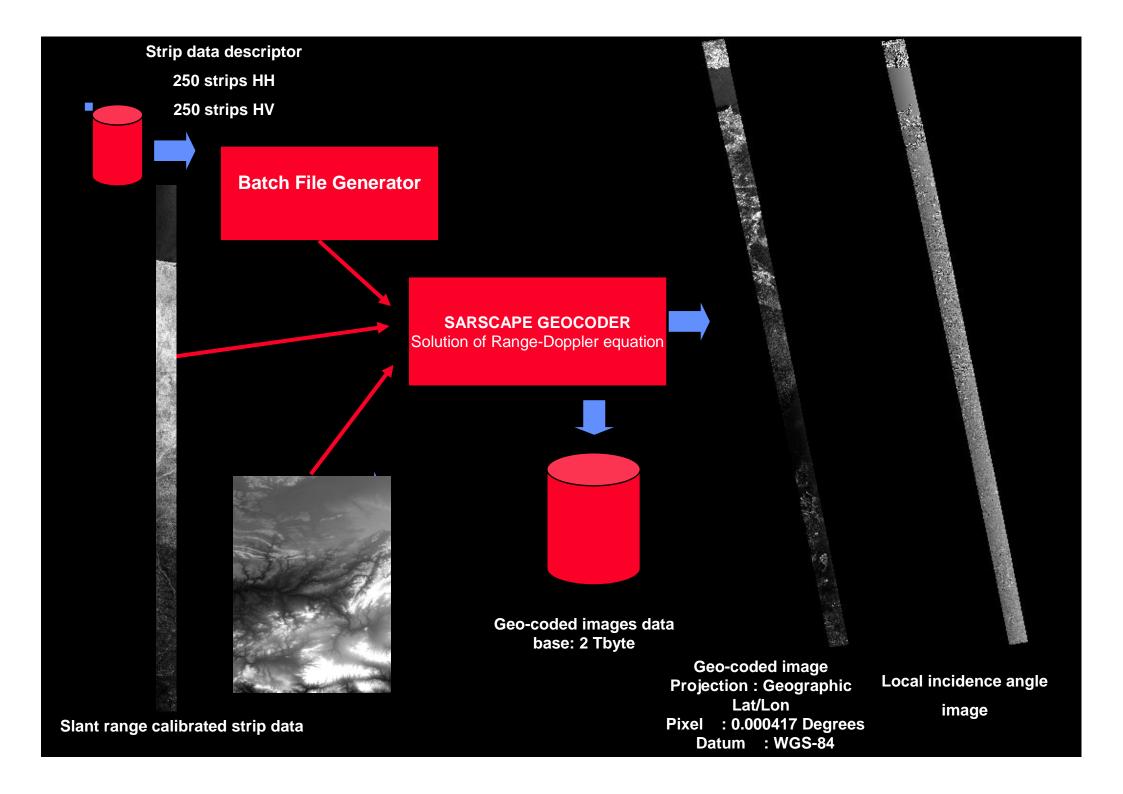


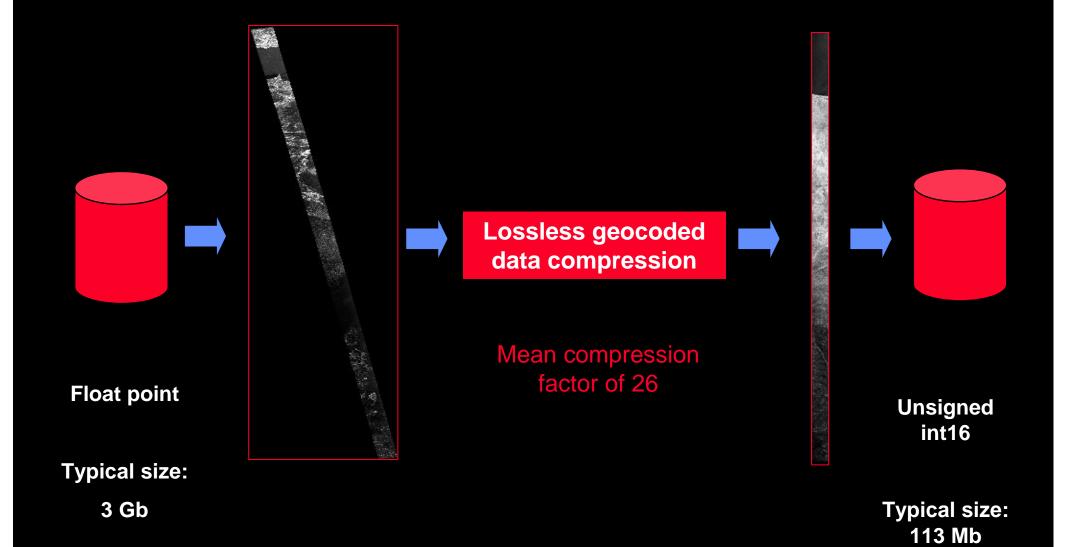
DEM tiles data base

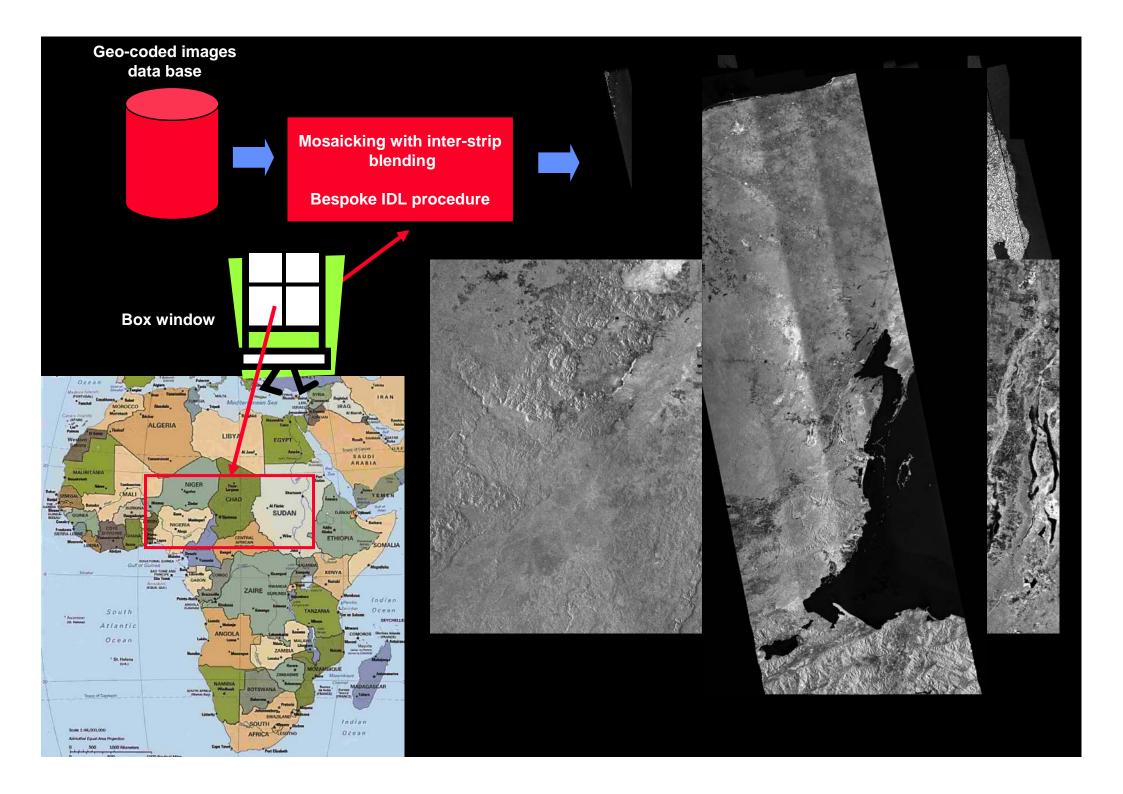
JAXA geographic data



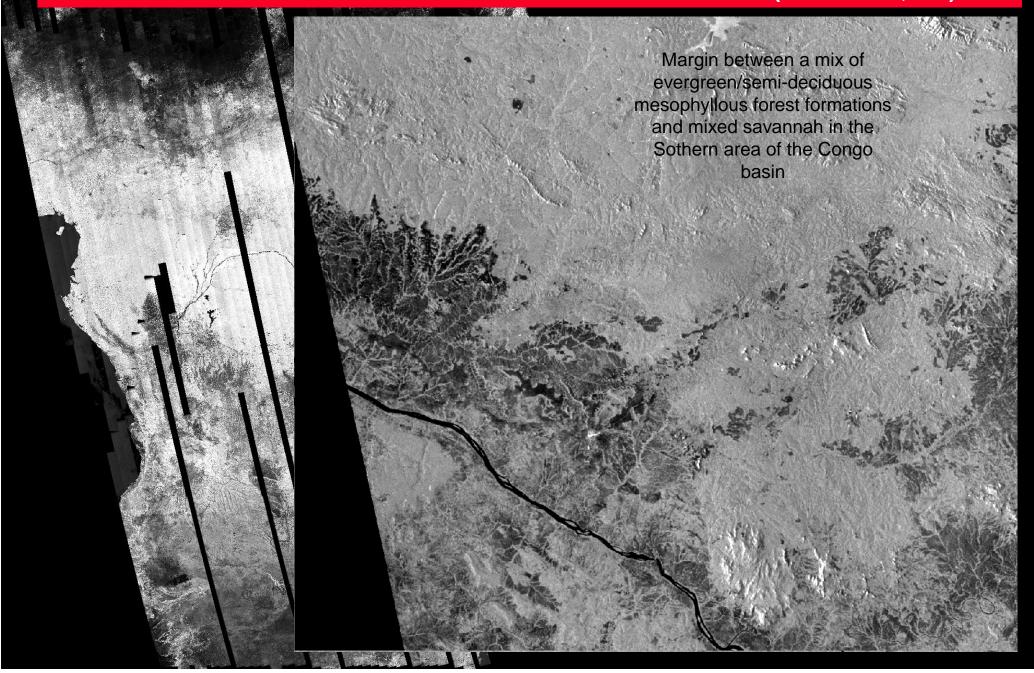




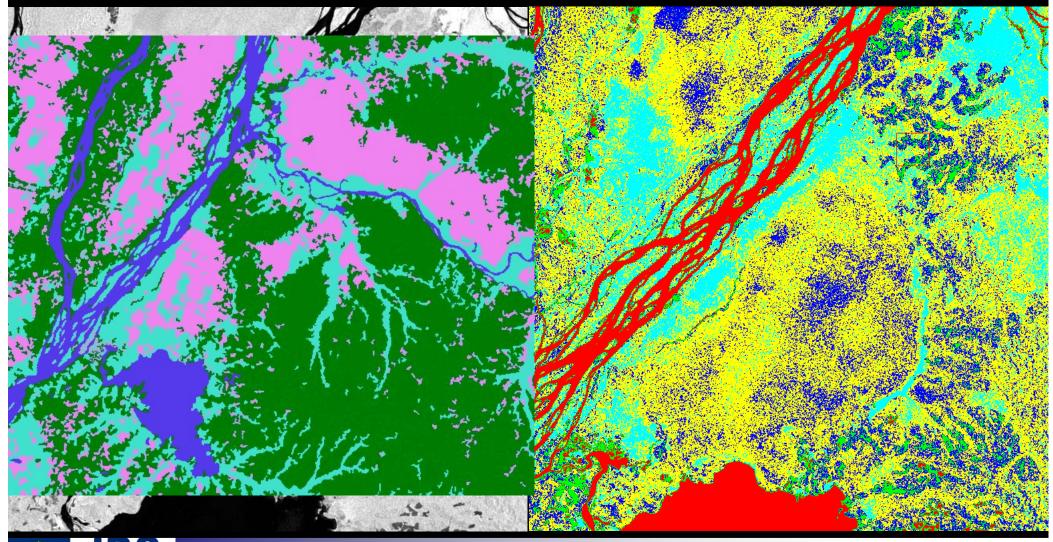




PROTOTYPE MOSAIC of EQUATORIAL CENTRAL AFRICA (92 STRIPS, HH)



SEGMENTATION EXPERIMENT USING A MOSAIC'S SUBSET (Congo Floodplain)







CONCLUSIONS



Daniel Barenboim (pianist, conductor) on Beethoven:

Beethoven's music deals with the innermost nature of the human being: to strife for the extreme....and finally from chaos comes a new order

Did we push too much to the extreme with the PALSAR mosaics?

Now that we for sure have chaos, will a new order finally appear?

Africa mosaic expected appearance
Spring 2009



