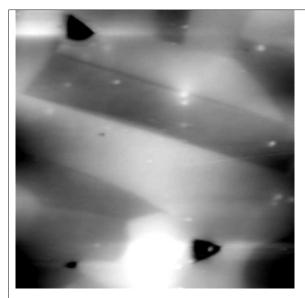
VectorPFM project

Tasks

- Creating mesh based on HeightMap image (DONE)
 - Scalling in X and Y dimensions to get um
- Exract images from raw data now is manually
 - Input image get row data without scale (is this poosible?)
 - Extract images from the scanner file (is this possible?)



Height map- from this we create 3D mesh



X_AMP, Y_AMP, Z_AMP



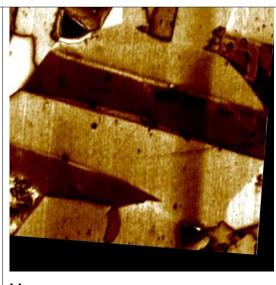
X_PHASE, Y_PAHESE,Z_PHASE

The vector is created based on image pixels in X,Y and Z direction. In addition, the phase is inverting it.

Alignment the Y_AMP – position and rotation Y_AMP after rotation needs to be aligned based on features. At the moment this is done manually.



X amp



Y amp

- Phase images what is up and what is down ??
 (white pixel is up (+Z), darker is down (-Z)). Add
 checkbutton to invert this. We need to define this
 for all three directions.
- Drawing raster of vector on the initial mesh
 - Changing the raster as needed
 - Place the custom vector on the surface
 - Vector length (calculated based on XYZ_AMP and phase) - normalized. We can define the longest vector.
 - Vector angle (based on calculated vector angle)
 - Show information for the vector length and the angle
 - Coloring vector based on angle and length
 - Vector raster

- Interaction with each vector get angle and length (Only OPENGL). Angle is measured towards the XY plane.
- Coloring mesh based on the X_AMP, Y_AMP,
 Z_AMP (Done)
- Case1 when the pixel on topography is black (<20) then the vector length is zero –add some slider for this