

The software for image analyses, based on Delphi 6 is presented. By using this program, analysis of some celestial bodies images, with the target to detect photometric contrast areas on their surfaces, is done. All considered images can be classify by degree of contrast. An example of low contrast is the image of Annefrank asteroid. In this case the contour map of isophotos, which reflect main details of Annefrank shape, is constructed. In case high contrast image, the increase of small details contrast is possible. So, at the developed image of Phobos, the inhomogeneous structure of the inner wall of the largest satellite's crater is clear, and famous furrows are continued to satellite's limb.

At present time, program requireq bmp-format of input image file. The program allows to bild brightcurve along the profile, change thikness and number of lines. In some, the simplest cases, aside from writing output information in bmp-file, the conservation of the result in the vector format is possible.

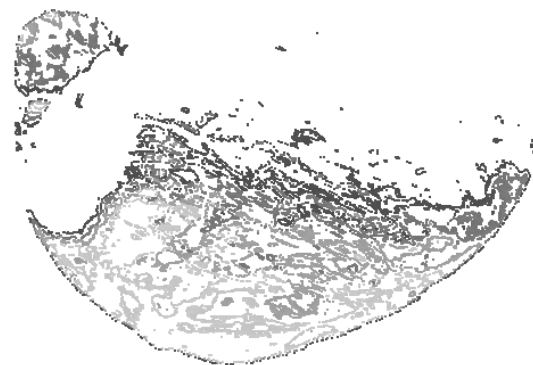


Fig3. Phobos image and its processing.



Fig 1. Asteroid Annefrank image processing



Fig2. 243 Ida's satellite Dactyl

In addition to astronomical application, the program can be used for the test of images of the terrestrial surface for the purpose to study varied ecological and cartographic problems.