

STAT

STAT

May 27, 1966

Mailing Address

STAT

Dear Colonel

[redacted] at the Jet Propulsion Laboratory, Pasadena, Calif., has developed some computer programs for digital processing of the lunar and Mars photos. He was remarkably successful in improving image quality and actually increased resolution considerably. His processing included:

STAT

- a.) Removing geometric distortion
- b.) Removing systematic noise
- c.) Localized expansion of grey scale
- d.) Removing photometric distortion
- e.) Inverting the contrast transfer function.

Although [redacted] original video was in coarse grained digital form, I believe we could readily adapt the process to your fine grain continuous tone material. Digital processing would not be a general purpose tool as the present processing rate is only 16 image points per second. To process a single 9" by 9" frame at this rate would tie up your computer for a number of days.

STAT

The process would probably only be suitable to small sections of frames, perhaps one or two square inches, which contain the most important imagery. It would I think be a great boon to have some powerful tools for the improvement of selected images of extreme interest.

If you are not already actively exploring [redacted] work and would like to discuss this further, please give me a call.

STAT

Best regards,

STAT

Declass Review by NGA