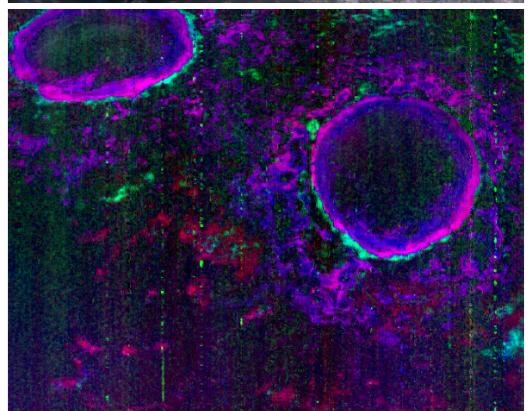
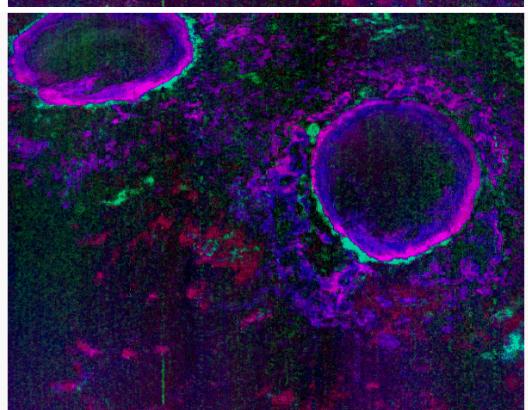


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TAN



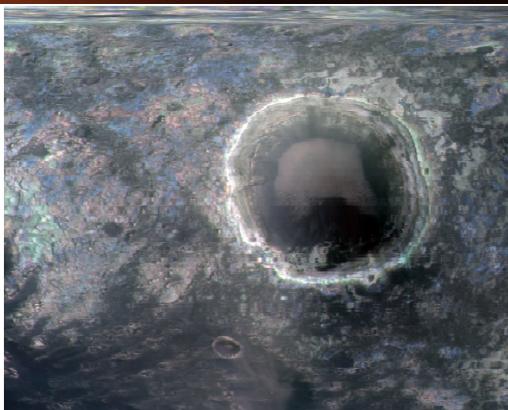
PHY



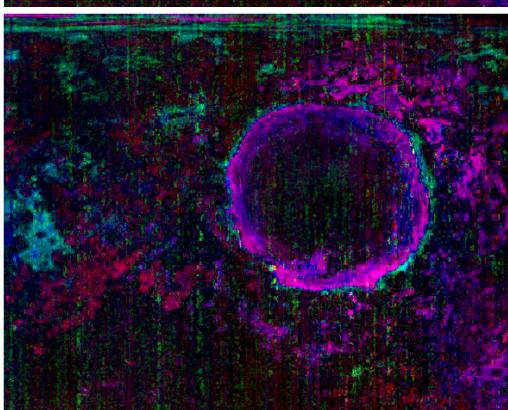
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TAN



PHY

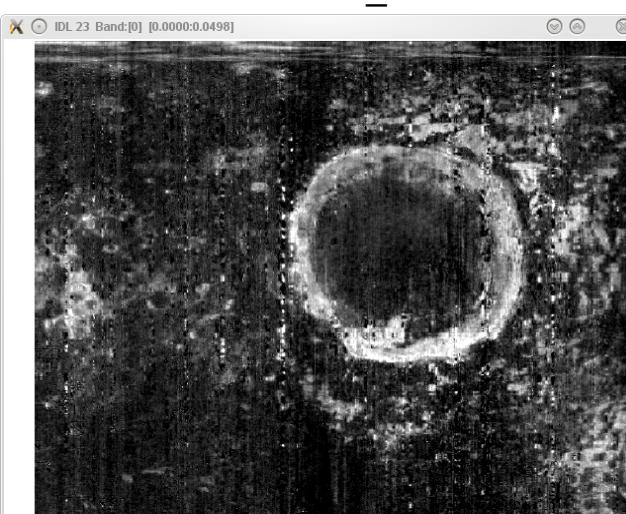
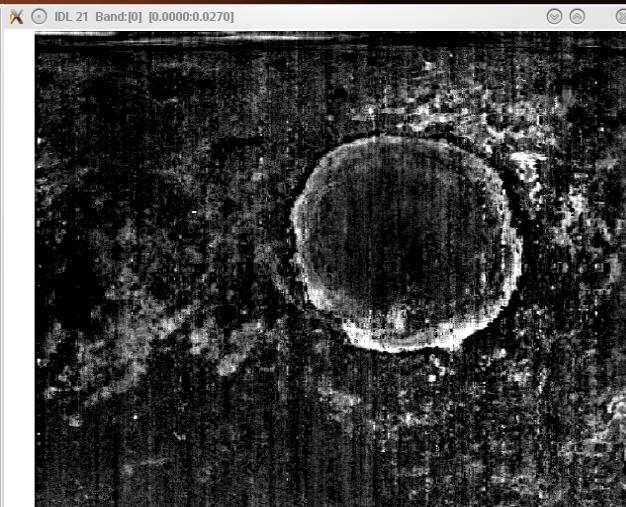
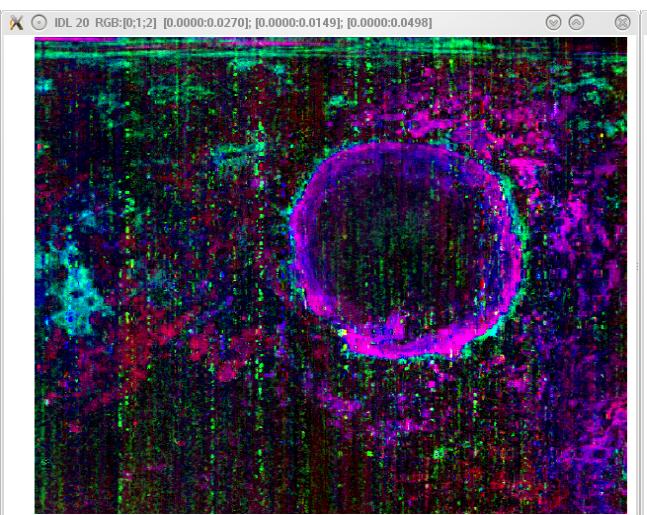


PHY*

MRO CRISM Summary Parameter Filtering

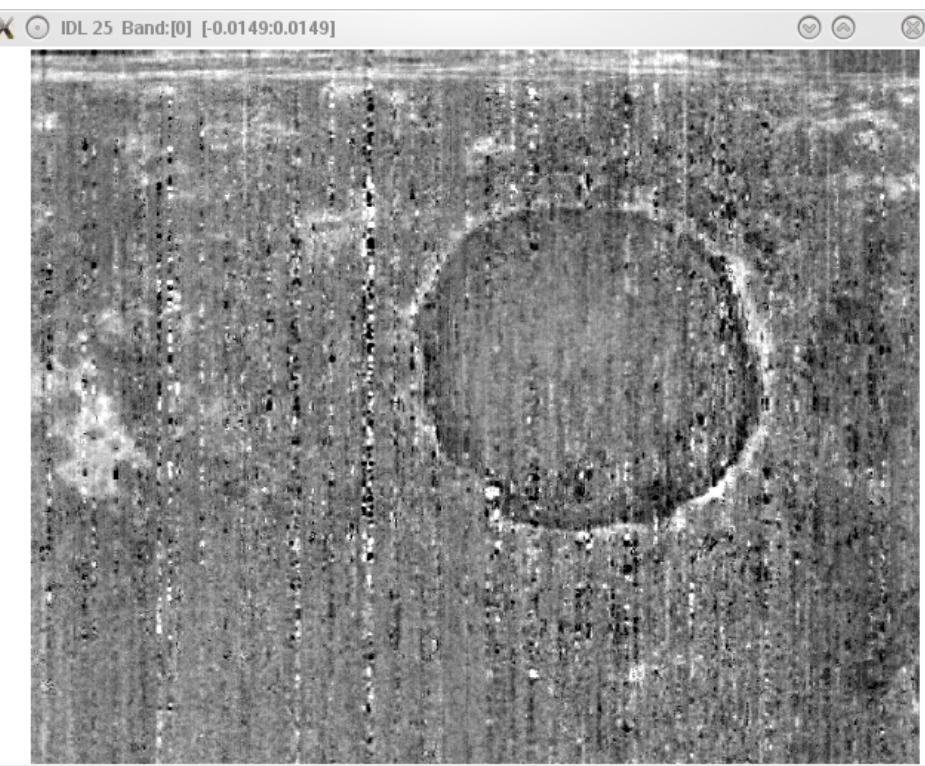
04/04/2013

F. Seelos, CRISM SOC



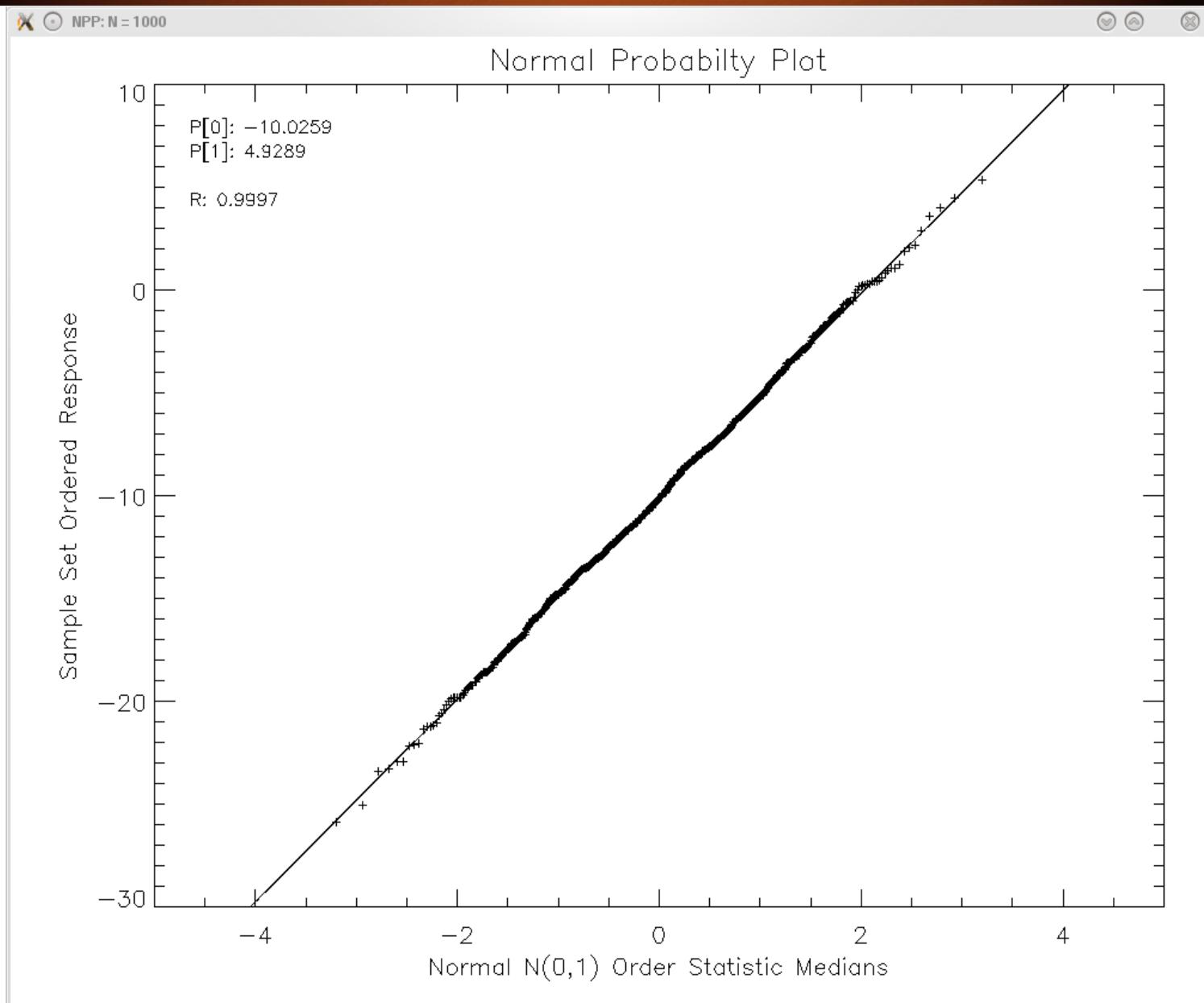


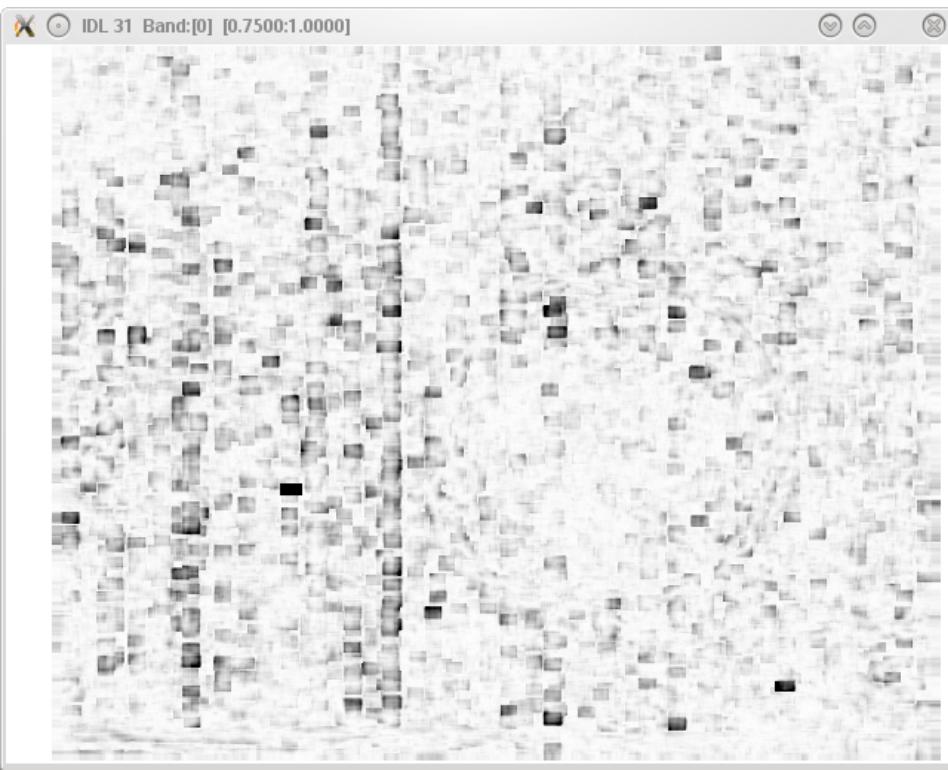
BD2210 [0.0, 99.5%]



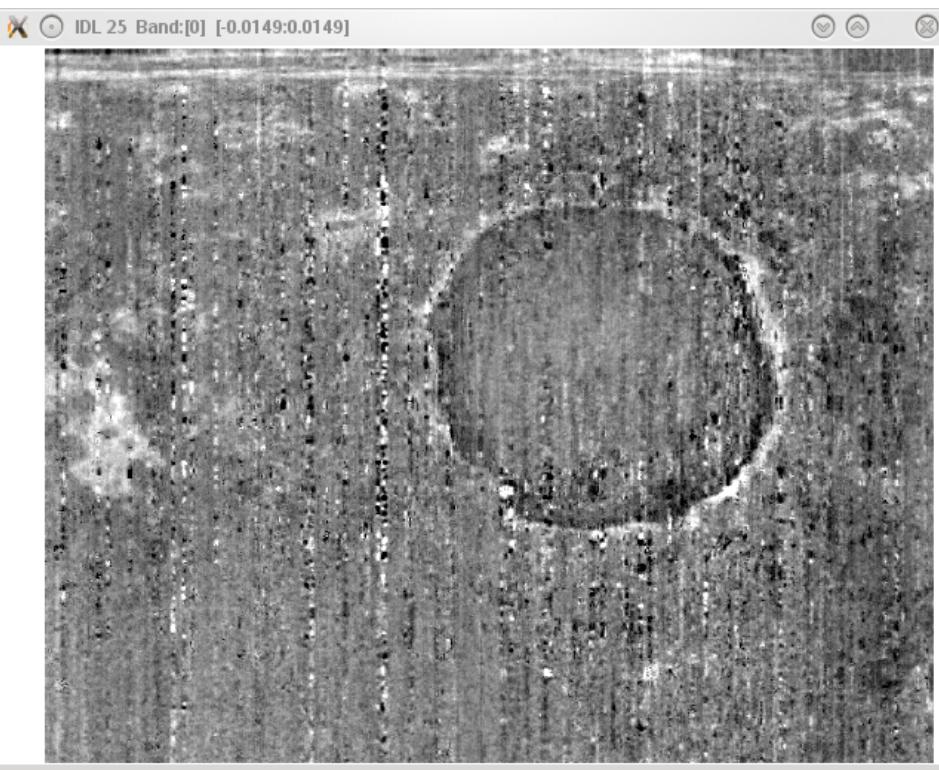
BD2210 [0.5%, 99.5%]

Normal Probability Plot

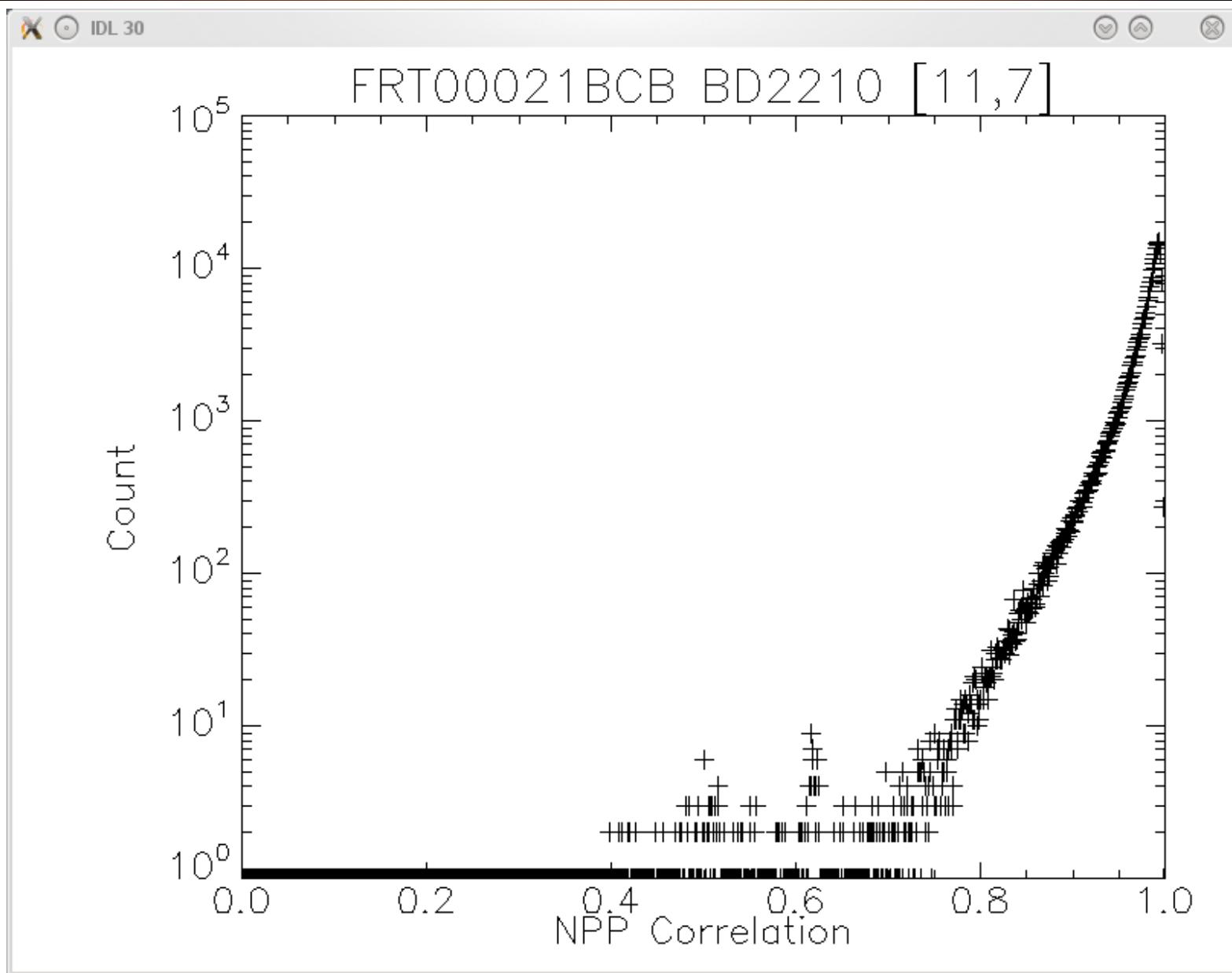


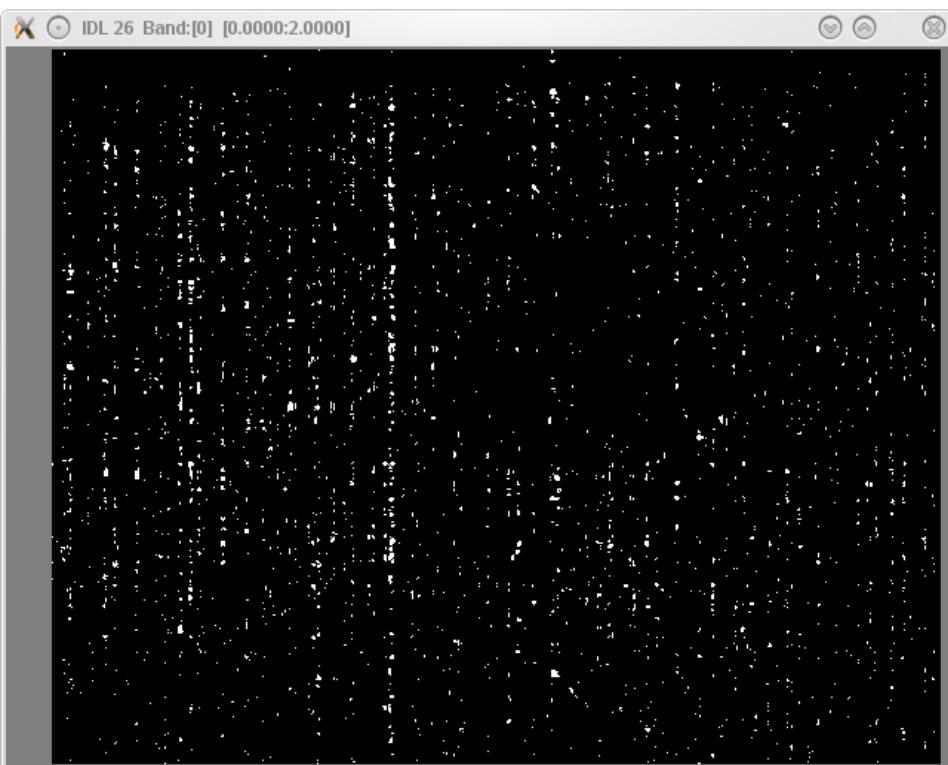


Normal Probability Map
(Correlation Coefficient)

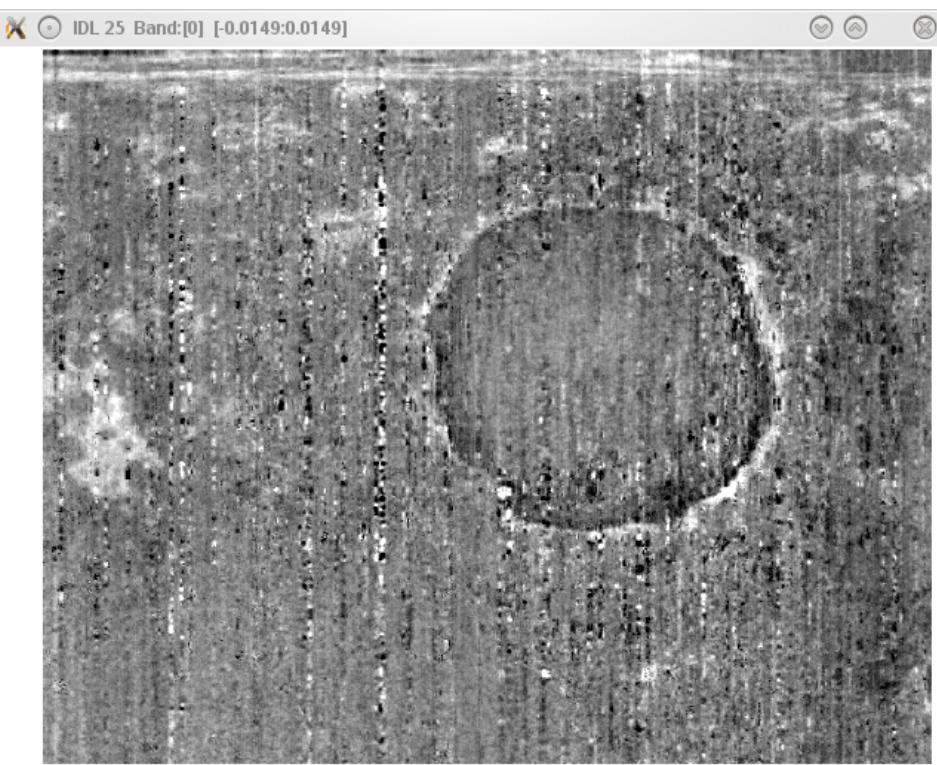


BD2210 [0.5%, 99.5%]

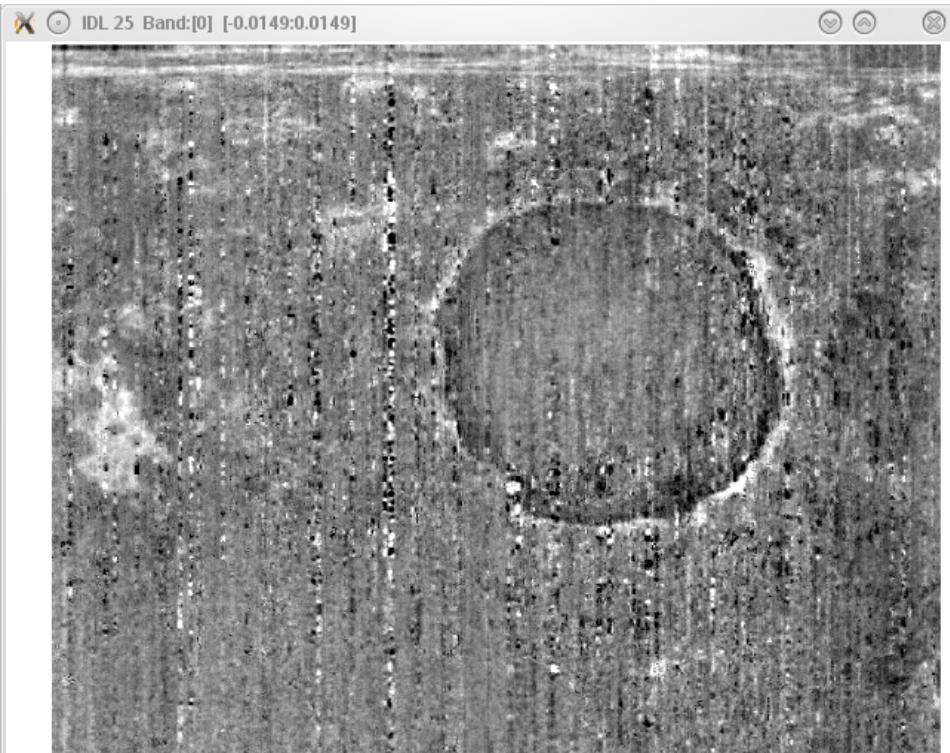




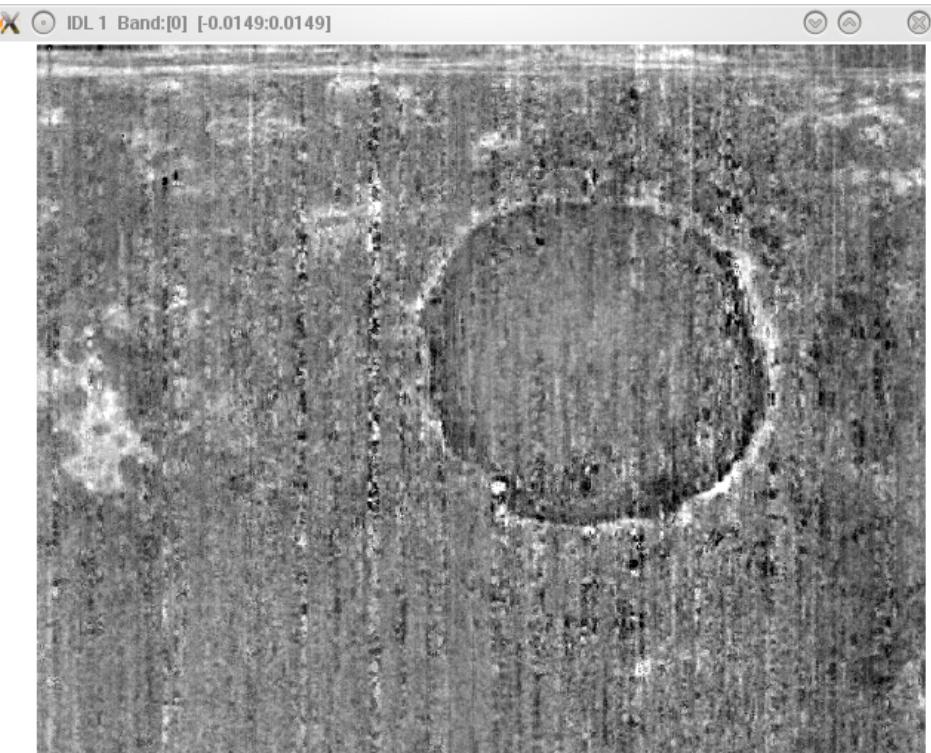
Voting Filter Outlier Map
(Iterative Grubbs Test with Selection Threshold)



BD2210 [0.5%, 99.5%]



BD2210 [0.5%, 99.5%]

BD2210_C [0.5%, 99.5% | BD2210]

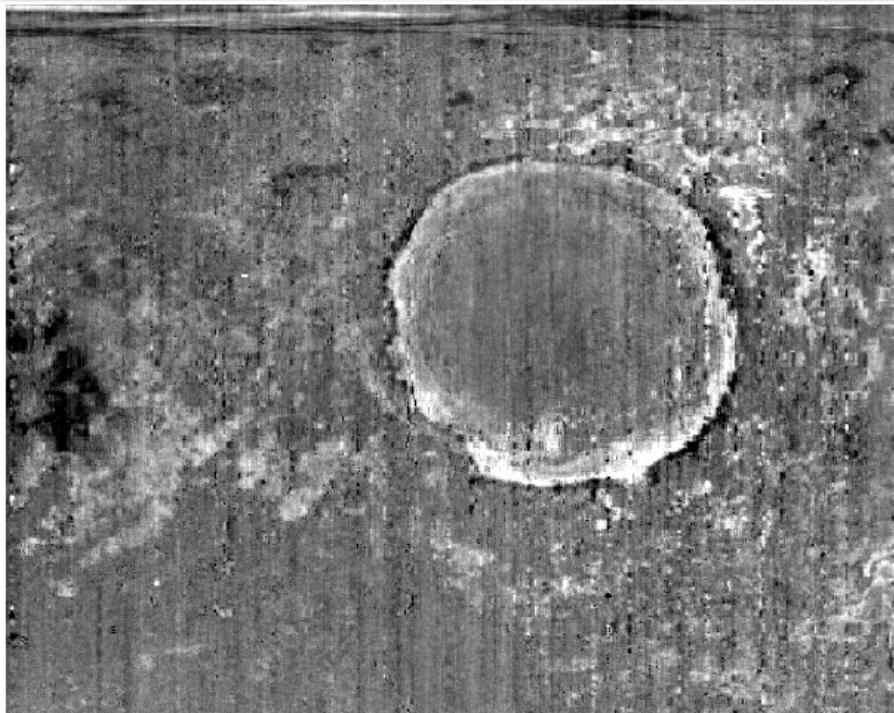


IDL 21 Band:[0] [0.0000:0.0270]

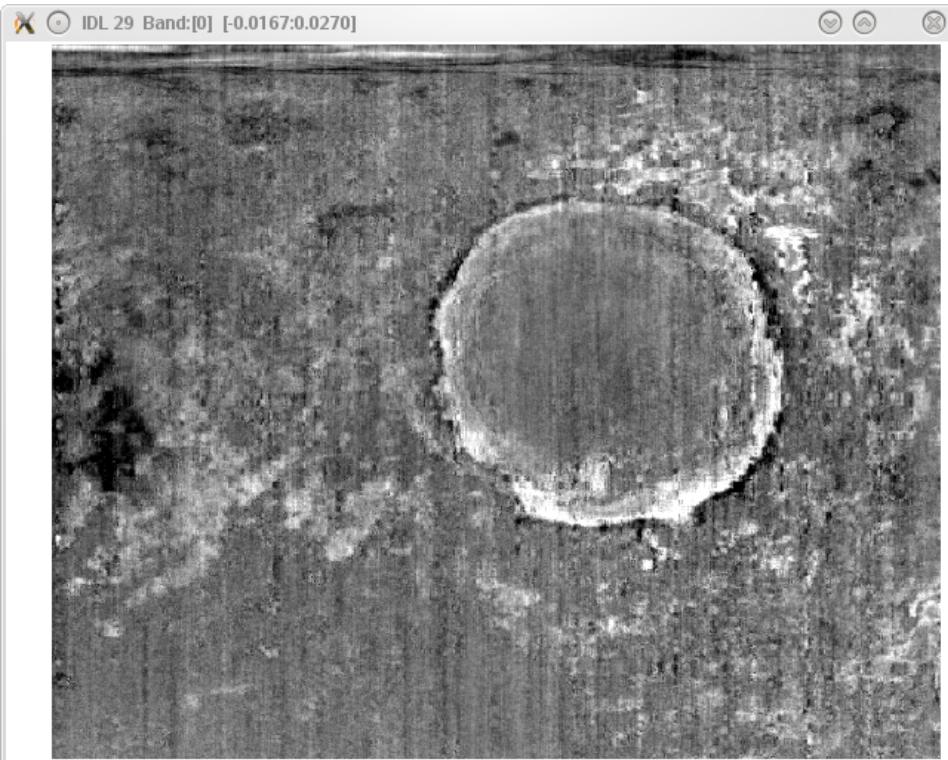
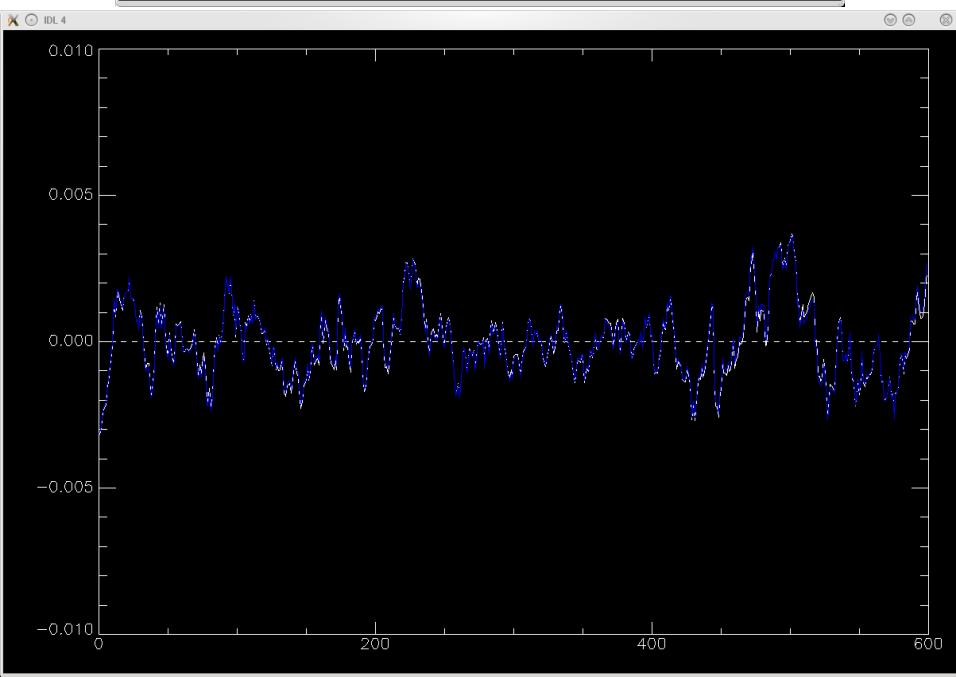
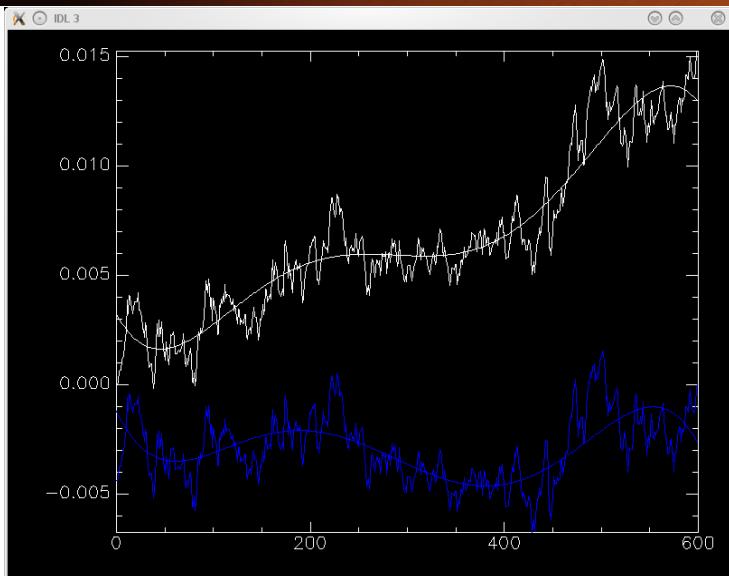


D2300 [0.0, 99.5%]

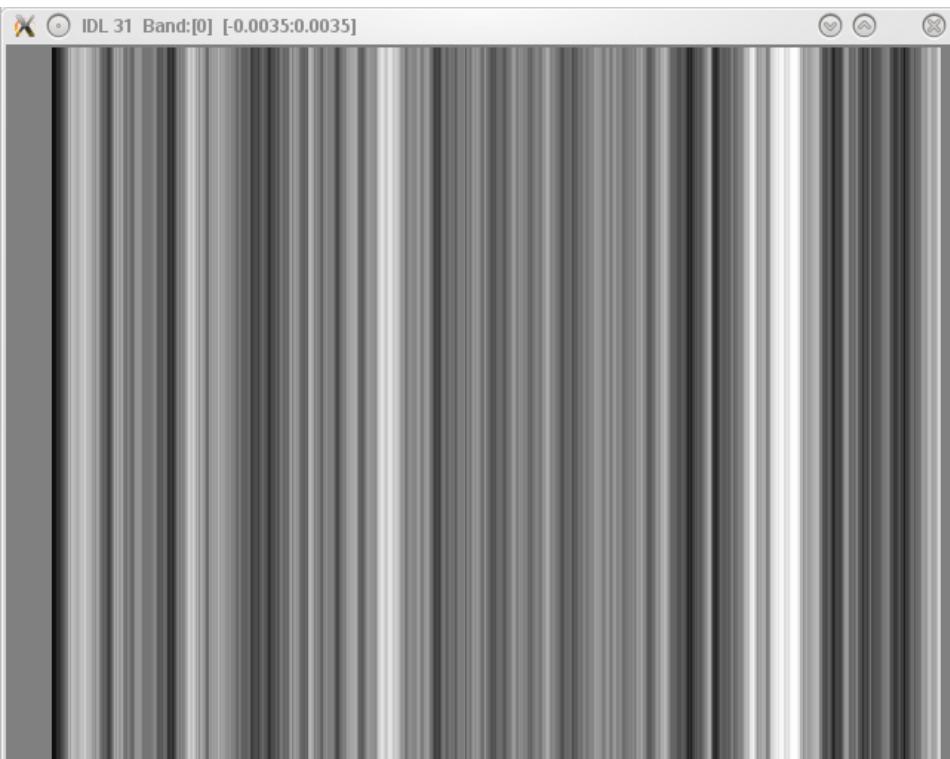
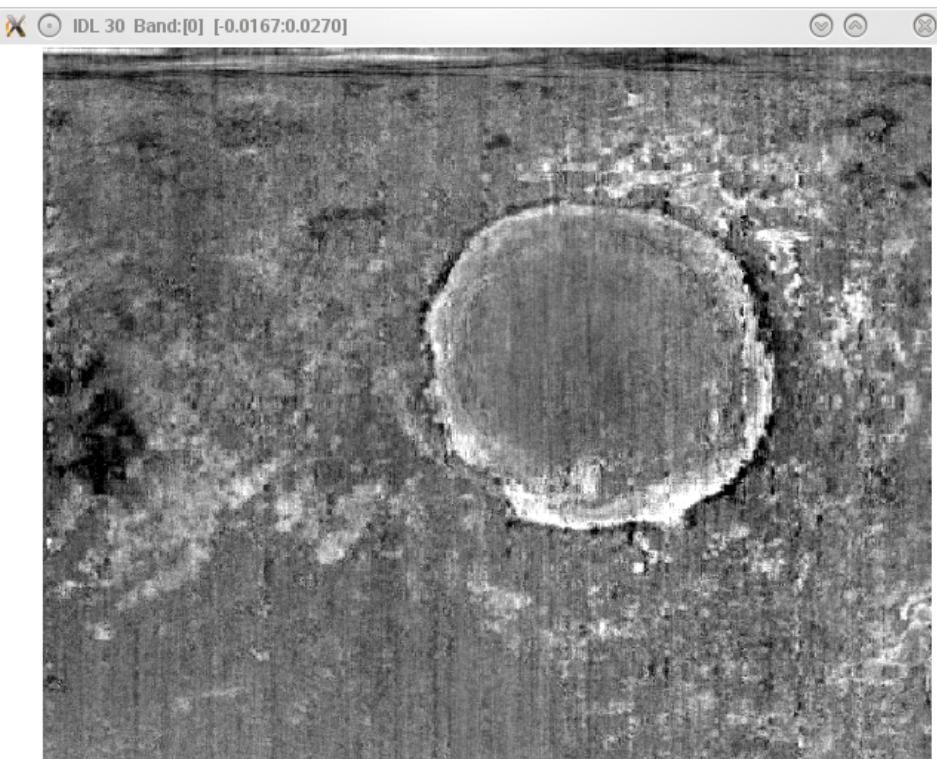
IDL 28 Band:[0] [-0.0167:0.0270]



D2300 [0.5%, 99.5%]

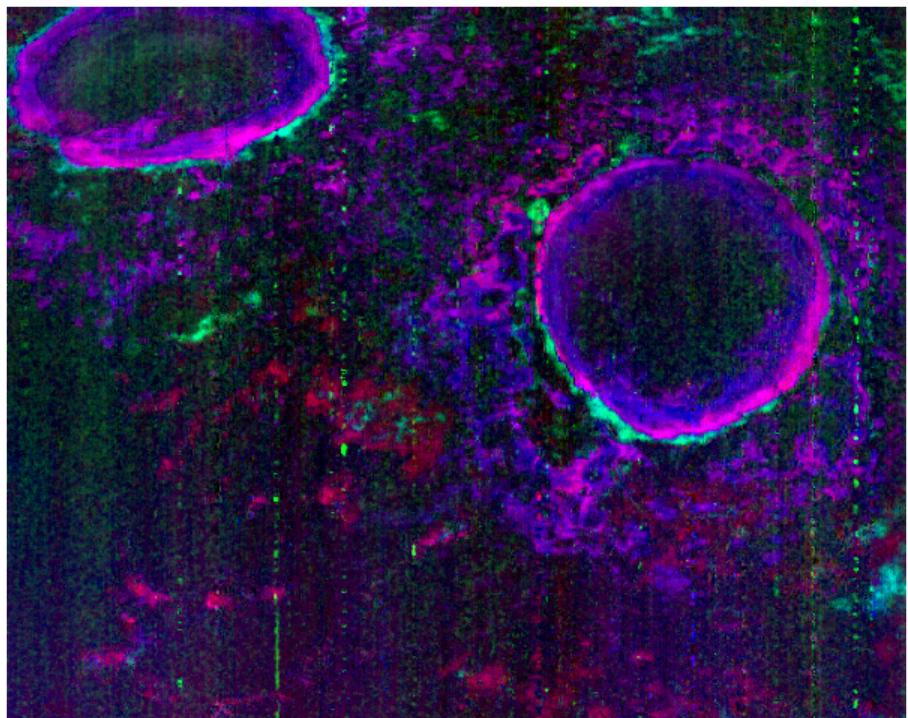


D2300_C [0.5%, 99.5% | D2300]

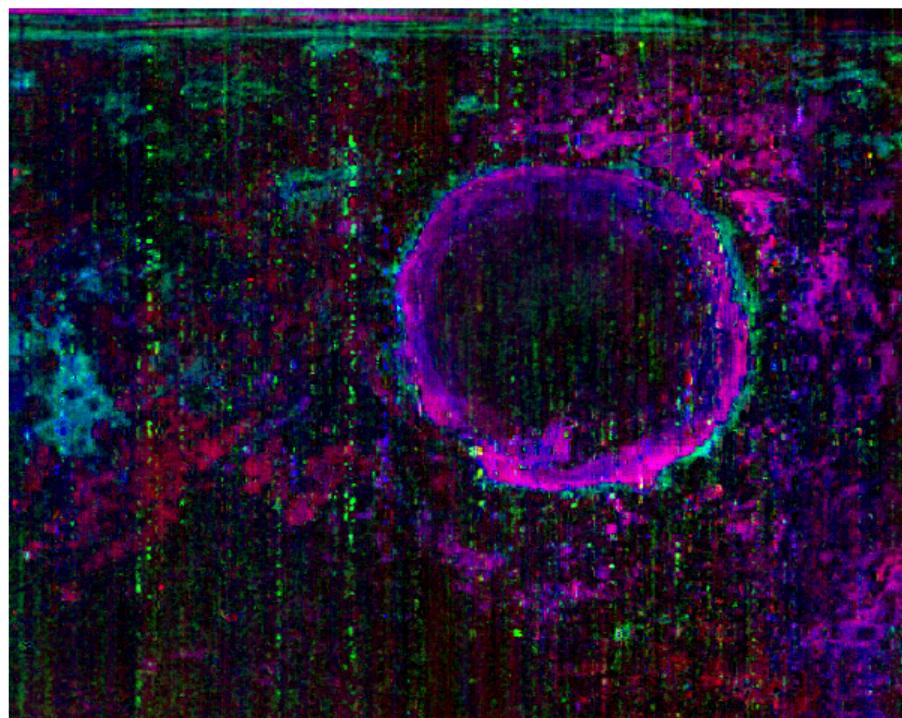
 $D2300_C - D2300_{C,S}$  $D2300_{C,S} [0.5\%, 99.5\% \mid D2300]$

↓

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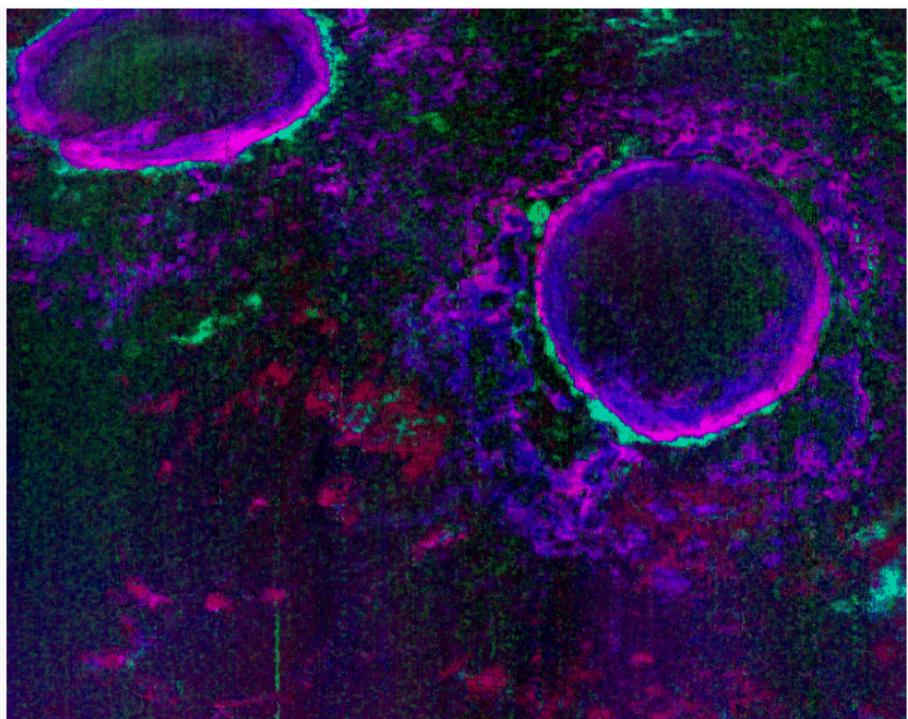


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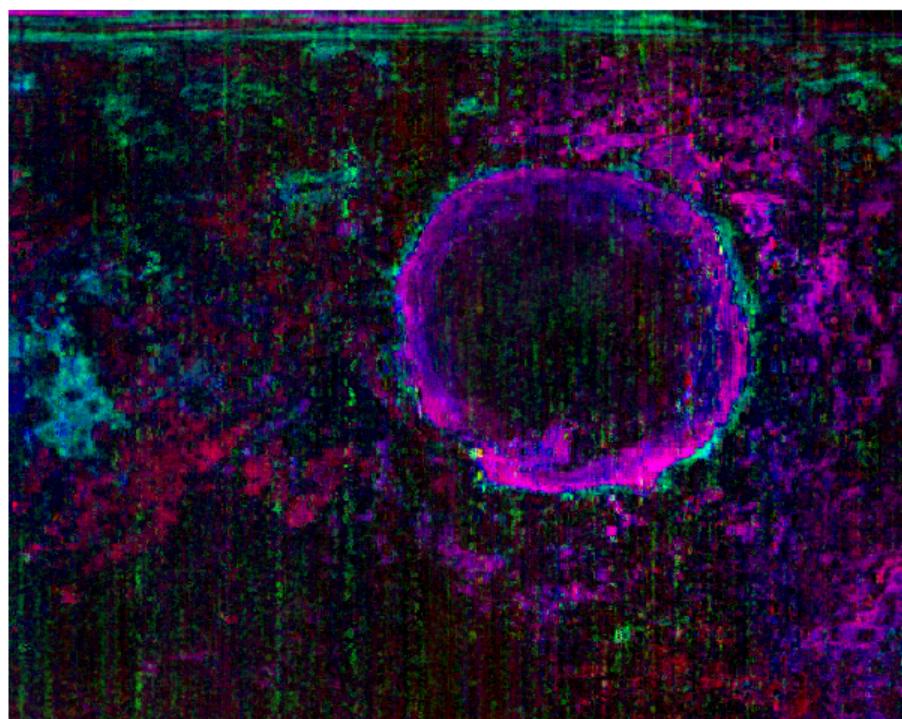




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- Crud Crusher (spikes, blobs, assorted gack...)
 - Voting Filter
 - Kernel Size [11, 7]
 - Asymmetric to accommodate along-track noise pattern
 - Significance Level (0.10)
 - If an outlier is detected the null hypothesis – that there are no outliers – is rejected at this significance level
 - Voting threshold (12)
 - $\min(\text{kernel size}) + 1$
 - Interpolator
 - Kernel Size [11, 11]
 - $[\max(\text{kernel size}), \max(\text{kernel size})]$
 - Kernel Weighting (Gaussian; $\sigma = 1 \text{ pxl}$)
- Stripe Squasher
 - Additive RSC implementation
 - Cross track reference model [5th order Legendre polynomial]
- The development parameter configuration has not been validated
- Parameters could be tuned for each summary parameter and/or observation