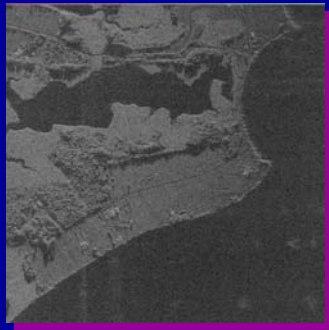
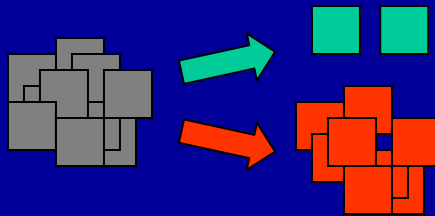


# ASURE (Automated SAR Utility Rating Estimator)

- Real-time automated image quality assessment
  - Focus, noise, brightness/contrast
  - RNIIRS rating estimation
  - Artifact detection
- Image classification and remapping
  - Wavelet-based texture classification
- Quality-based filtration/rejection
- Remote Java-enabled control



Raw Image



Determine image quality:

- Human Analyst: up to 3 minutes/image
- ASURE: 4 seconds/image (APY-6 imagery)

ASURE

Image File Directory: /data/asure/GlobalHawk

#	Image	Status	Focus	Britestrast	Noise	RNIIRS ...
1	SAR0089_DEFAULT_ID_19990709_044330572.ers	DONE	3.7	4.0	3.0	5.7
2	SAR0057_DEFAULT_ID_19990630_043931312.ers	DONE	3.4	4.0	3.0	5.1
3	SAR0014_DEFAULT_ID_19990630_035352172.ers	DONE	1.2	4.0	***	2.9
4	SAR0107_DEFAULT_ID_19990708_050739962.ers	DONE	3.9	4.0	3.1	5.9
5	SAR0181_DEFAULT_ID_19990709_063559302.ers	DONE	3.8	4.0	3.0	5.7
6	SAR0051_DEFAULT_ID_19990630_043304950.ers	DONE	2.4	4.0	3.1	4.0
7	SAR0031_DEFAULT_ID_19990630_041302430.ers	DONE	3.5	4.0	3.1	5.4
8	SAR0055_DEFAULT_ID_19990630_043814968.ers	DONE	3.3	4.0	3.1	5.1
9	SAR0140_DEFAULT_ID_19990708_054310891.ers	DONE	3.7	4.0	3.7	5.6
10	SAR0049_DEFAULT_ID_19990630_043129660.ers	DONE	3.2	4.0	3.1	5.0
11	SAR0147_DEFAULT_ID_19990708_062025779.ers	DONE	3.5	4.0	3.1	5.3
12	SAR0151_DEFAULT_ID_19990708_062533831.ers	DONE	3.8	4.0	3.2	5.9
13	SAR0019_DEFAULT_ID_19990630_040032738.ers	DONE	3.8	4.0	3.1	5.8
14	SAR0018_DEFAULT_ID_19990630_035958300.ers	DONE	3.6	4.0	3.1	5.4

Start Stop Clear Results Configure Params Configure Textures View Image

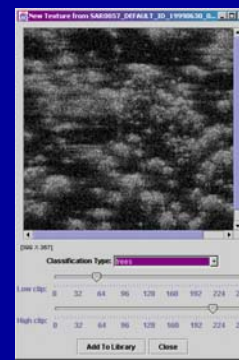
Process Monitoring and Control



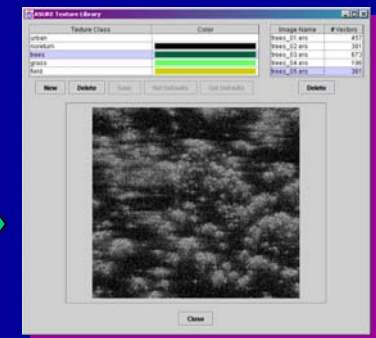
Remapped and Classified Image



Zoomed Image



Extracted Texture



Texture Library