

19/07/2012 PROCESS: Processing workflows for thermal and fluorescence sensors

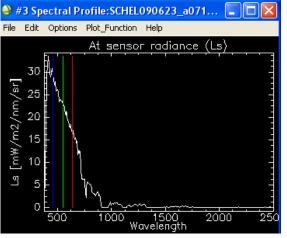
Dries Raymaekers, Jan Biesemans, Koen Meuleman, Thomas Udelhoven, Gilles Rock, Uwe Rascher, Andre Erler

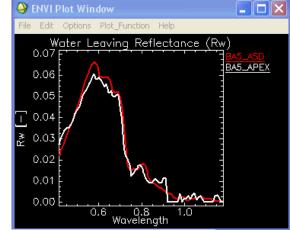


Processing workflow

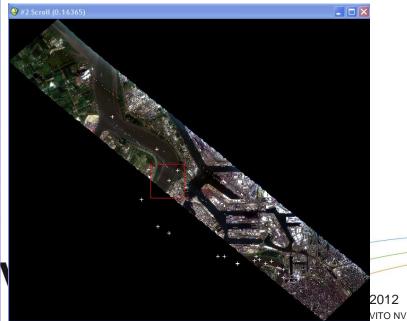
Radiometric correction Atmospheric contribution



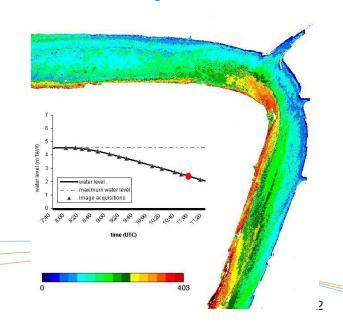




Level 3/4 products



Geometric correction



General objective

technology

- » Extend the current processing chain with two new sensors and provide a Quality Service to the international user community
 - » a Thermal sensor, owned and operated by the Gabriel Lippman Institute
 - » the HYPLANT sensor, a hyperspectral sensor for retrieval of sun-induced fluorescence, owned and operated by the Research Centre Jülich.

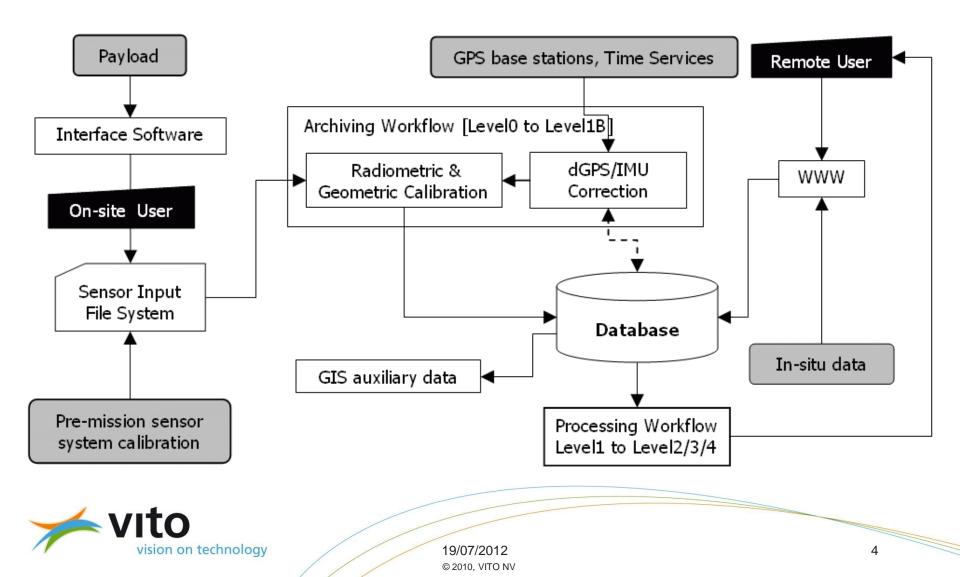
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AisaEAGLE sensor	5
L: 146 mm	
W: 145,5 mm H: 347 mm	field
Mass: 6,5 kg	
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Sensor	Fluorescence Imager	Dual-Channel Imager
wavelength range (nm)	670 - 780	380 - 2500
Spectral resolution (nm)	0.2	3 (380 – 1000nm) / 10 (1000- 2500 nm)
Number of spectral bands	1024	560
spatial resolution (pixels)	384	384
field-of-view (degrees)	32.2	32.2

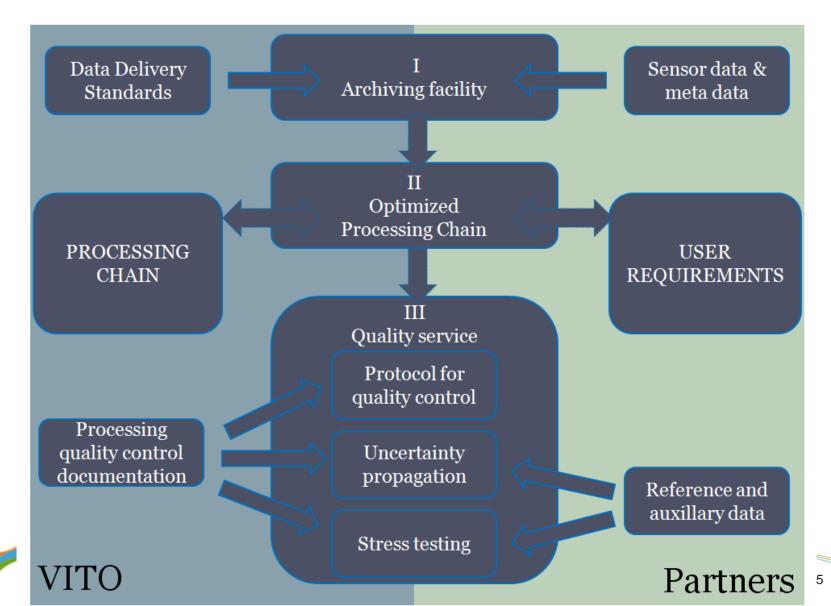
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Figure 3. HYPLANT sensor: Specifications

VITOs Processing chain



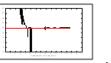
Methodology



More information ...

vision on technology

Processing workflows for thermal and fluorescence sensors Dits Raymaskes', Jan Bisseman', Koen Meuleman', Thomas Udelhoven ² , Giles Rock ² , Uwe Rasche ⁴ , Andre Erler ⁴ Mr. Funn Inner & Thomageur Research, Mill, 140, Erlen			
19-01, Centre de Racharche Public-Gabriel Ligomann, Luxembourg 5-2: Plans Science M. SoftWorgszenzum Jülich GmbH, Germany RODUCTION	METHODOLOGY		
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