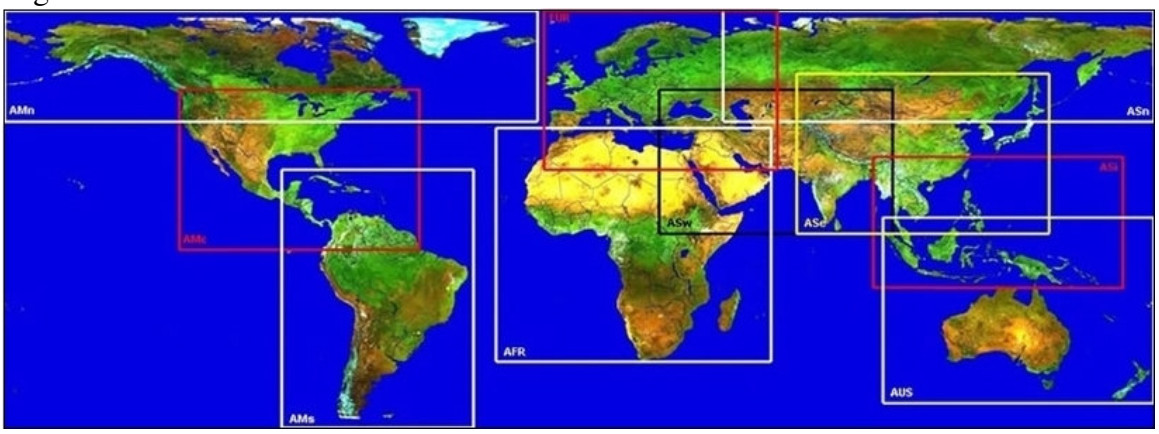
ILWIS Scripts to process the METOP S-10 data for the various windows

Figure 1: S-10 windows



ILWIS scripts are available to import the data for the following windows:

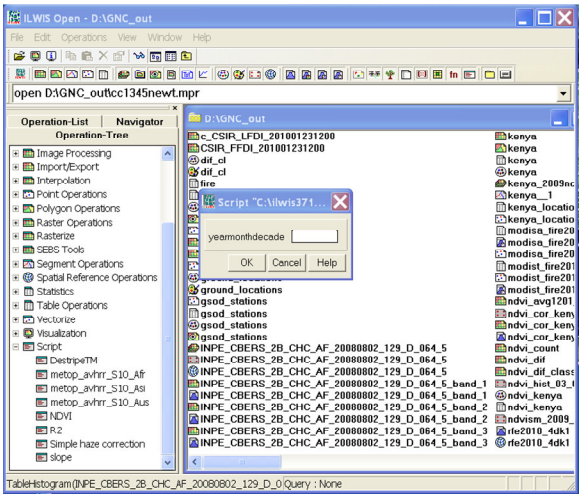
Africa:	METOPS10_Africa.zip
Asian Islands	METOPS10_Asi.zip
Australia	METOPS10_Aus.zip

Installation Instructions:

Download the data from the VITO S10 Archive and unzip the file. Access to the data: www.metops10.vito.be/metop-S10_pages/main.html

Download the respective ILWIS Script, unzip the file and copy the *.isf and *.isl in the ILWIS\Scripts. Copy the *.grf file in the ILWIS\System directory.

Start ILWIS and from the Operation Tree, select scripts. The METOP S10 scripts for the selected window should appear. Double click the script and enter the appropriate time stamp, in a format yyyymmdecdec (y=year, m=month, dec=decade and can only be 01, 11 or 21).



Wait until the processing is finished. The following map layers are obtained:

IMAGE	Physical Values Y			Scaling	Digital Values V	
VVV	CONTENT	UNIT	$Y_{lo} \rightarrow Y_{hi}$	Y = A + B*V	$V_{lo} \rightarrow V_{hi}$	V_{flag}
SR1	$R_{s,RED}$	%	0 → 62.50	Y=0.250*V	0 → 250	255
SR2	$R_{s,NIR}$	%	0 → 83.33	Y=0.333*V	0 → 250	255
SR3	$R_{s,SWIR}$	%	0 → 62.50	Y=0.250*V	0 → 250	255
NDV	NDVI	-	-0.08 → 0.92	Y=-0.08 + 0.004*V	0 → 250	255
LST	Land surface temperature	°C	-50 → 75	Y=-50 + 0.5*V	0 → 250	255
SZA	Sun Zenith Angle	degrees	0 → 125	Y=0.500*V	0 → 250	255
VZA	View Zenith Angle	degrees	0 → 125	Y=0.500*V	0 → 250	255
SAA	Sun Azimuth Angle	degrees	0 → 360	Y=1.500*V	0 → 240	255
VAA	View Azimuth Angle	degrees	0 → 360	Y=1.500*V	0 → 240	255
TCO	Nr. of Clear observations	-	1 → 255	Y=V	1 → 255	0
DAY	Day in dekad	-	1 → 11	Y=V	1 → 11	0
STM	Status Map	-	bit-interpretation (see table below)		1 → 255	0

Note that where appropriate the scaling factors are implemented.