

GLCN WORKSHOP INDIA

OVERVIEW ON VEDAS

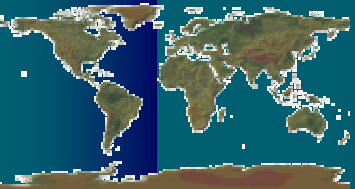
(Vegetation Dynamics Analysis Software)

by

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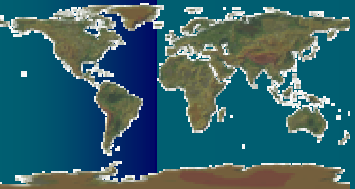


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AIMS:

THE SOFTWARE WILL BE DEDICATED TO THE IDENTIFICATION, CLASSIFICATION, COMPARISON OF THE PHENOLOGICAL BEHAVIOUR OF PREDIFINED VEGETATION PHISIONOMIC CLASSES TROUGH THE UTILIZATION OF MULTI-YEAR INFORMATION OBTAINED BY THE USE OF MEDIUM RESOLUTION SATELLITES





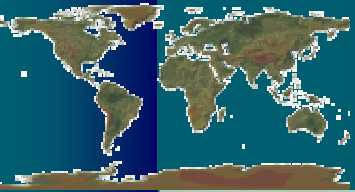
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BACKGROUND:

- ***Availability of medium resolution satellites (Modis, Meris) has opened new possibilities in the study of vegetation temporal behaviour***
- ***Use of NDVI to characterize vegetation temporal profiles as well as the mapping of vegetation phisionomy (land cover) using high resolution satellite data are both consolidated techniques***
- ***However inegration of the two components it as been ineffective mainly due to the coarse resolution (1 Km) of environmental satellites and the absence of methodological procedures***

COMBINATION OF PHISIONOMY AND PHENOLOGY IS A KEY ISSUE IN THE STUDY OF VEGETATION



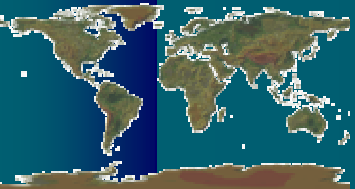


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BACKGROUND:

- ***Availability of medium resolution satellites has closed this gap***
- ***There is the concrete possibility of assign to a given land cover class (veg. Phisionomy) a specific phenological behaviour***
- ***This potentiality is at the moment hampered by the complex "preprocessing work" of multitemporal NDVI and the absence of standardized methodological approaches to combine results of different satellites at different resolution and different ways to classify the data (visual automatic)***





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BACKGROUND:

- *At the moment no single software as the all functions necessary to perform this activity (automatized preprocessing chain, sofisticated statistical methods to compare temporal series etc)*
- *The idea of VEDAS is to provide to the user comunity this type of instrument.*
- *Thye software will be realized assembling toghether single functions previously tested a part one by one in an ergonomic and user friendly software enviroment*

GLCN IS AT THE MOMENT TESTING IN A SIX MONTHS RESEARCH PROGRAM THESE FUNCTIONS

