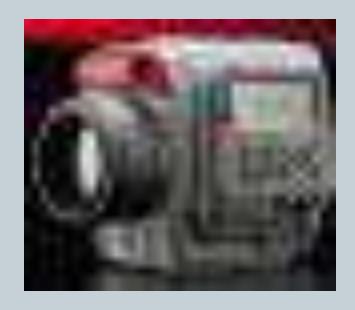
P.D.V.P. College Tasgaon Dept. of Geography

BASICS OF REMOTE SENSING

Mr. Amit M. Mali Assistant Professor Dept . of Geography

How to collect scientific data?





In situ

Remotely

What is Remote Sensing?

- The art of measuring an object or entity without touching it.....
- "The science and art of obtaining information about an object, area, or phenomenon through the analysis of data acquired by a device that is not in contact with the object, area, or phenomenon under investigation".(L&K,1994)

Why Remote Sensing?

- Systematic data collection
- Information about three dimensions of real objects
- Repeatability
- Global coverage
- The only solution sometimes for the otherwise inaccessible areas
- Multipurpose information

• Is it all...???



That's how Remote sensing evolved.....

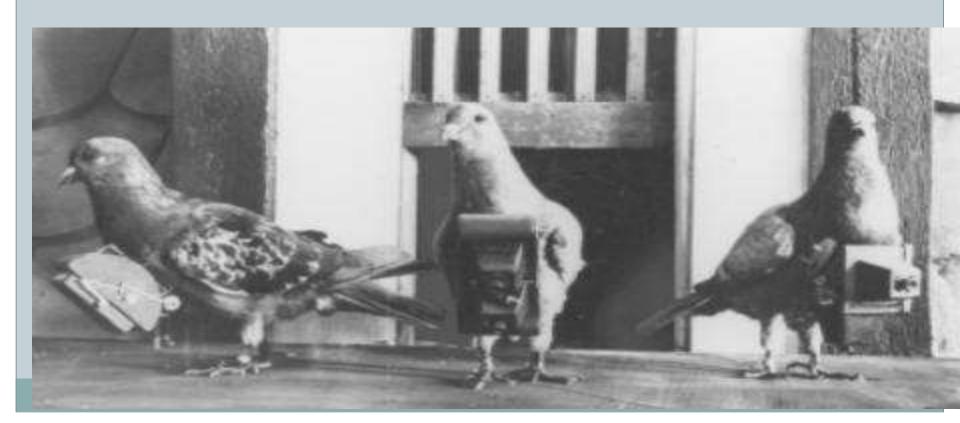
1858 - first aerial photograph from hot air balloon



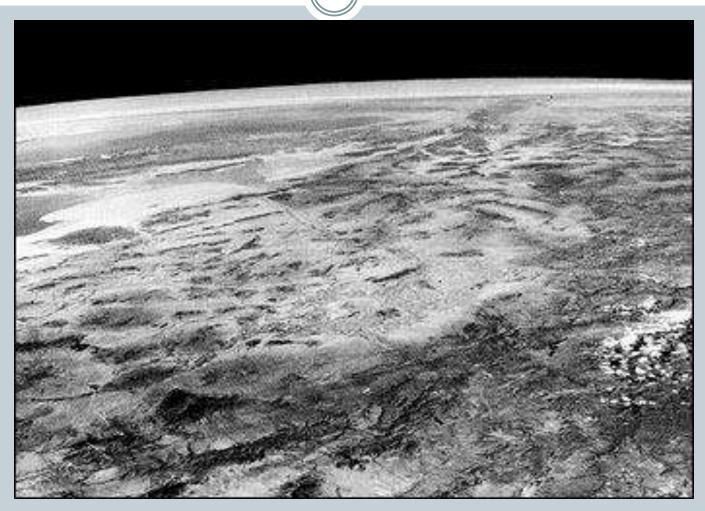




1903 - pigeon-mounted camera patented 1914-1945 - Plane mounted Cameras



The first space-based photo taken on March 7,1947....



• 1972 : Launch of Landsat I

 • 1970-1980 : Rapid advances in Digital Image Processing

1980s: Development of Hyper spectral sensors

REMOTE SENSING PROCESS

