Application of Landsat images for mapping of environment in Poland

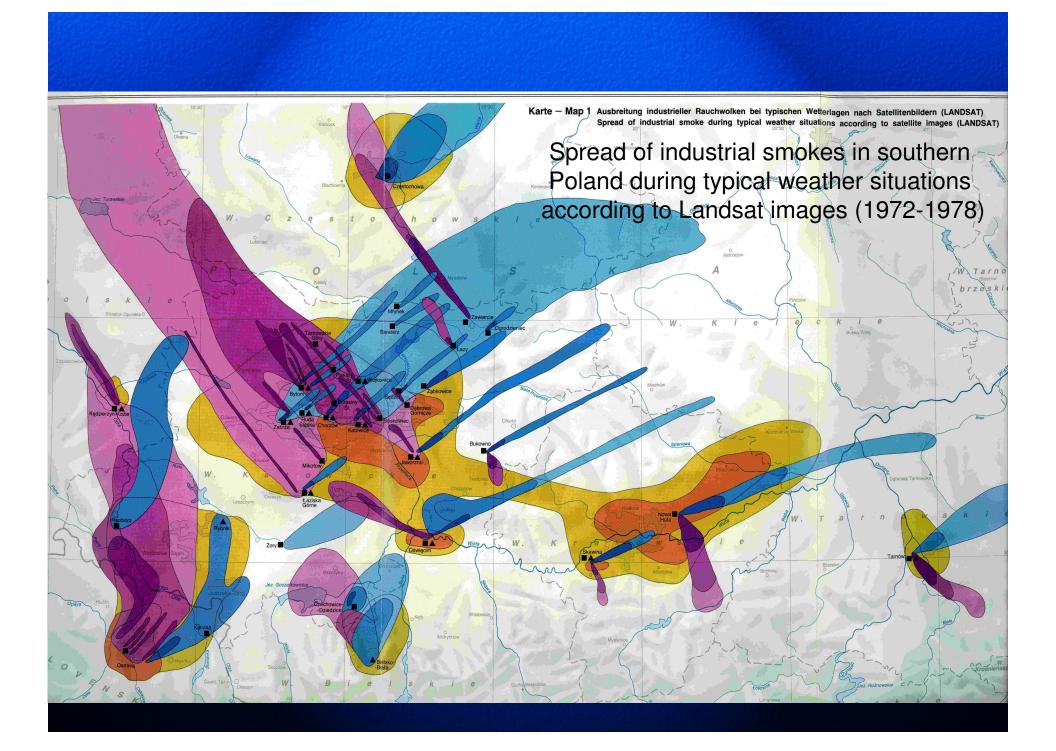
Dr. Marek Baranowski Institute of Geodesy and Cartography Warsaw

Some facts

- ERTS / Landsat launching triggered faster development of remote sensing studies and applications at the Institute
- 1975 establishing a remote sensing centre OPOLiS (the decree of the government)
- Installation of US made computer system during COCOM restrictions (export control)
- Over 300 projects for mapping, environmental studies, agriculture, forestry, emergency monitoring, water management, and many other applications

Study of air pollution using Landsat images

November 1973

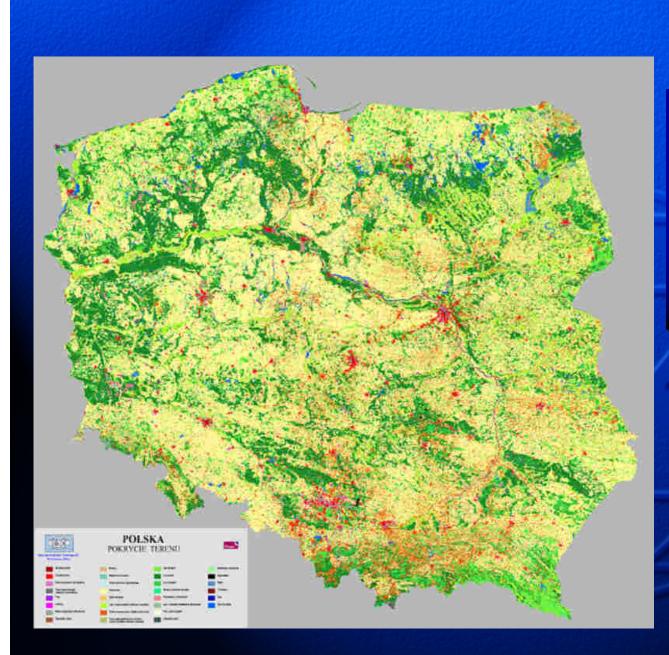


Elaboration of land use/cover maps at various scale based on Landsat MSS and TM images

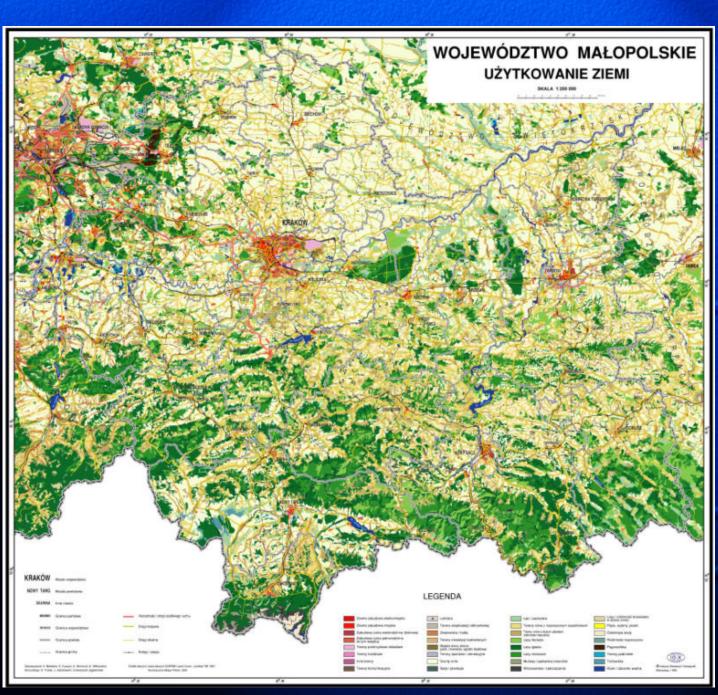




Poland. Map of land use elaborated on the basis of Landsat MSS images (market printed map)



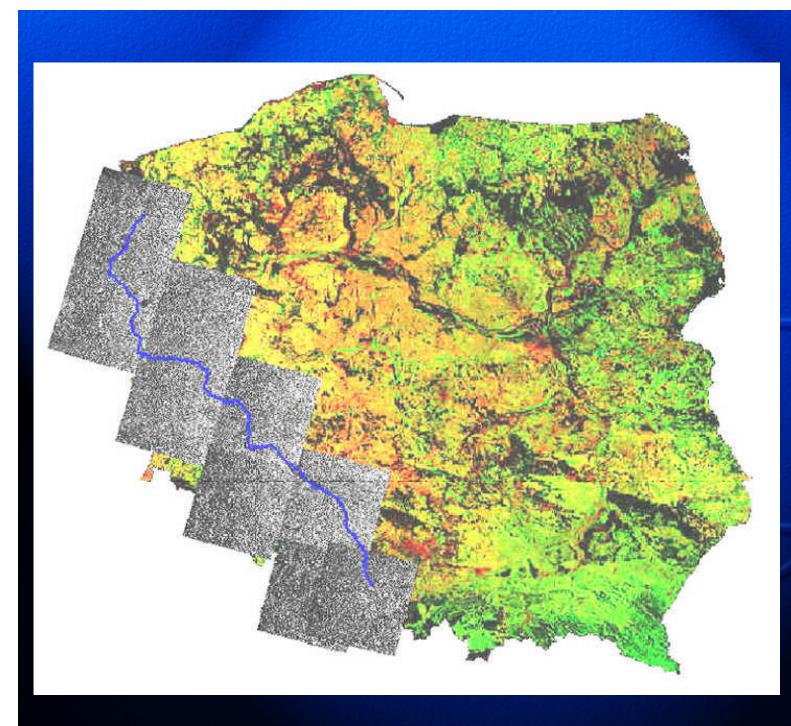
POLAND Land cover map (elaborated within the framework of CORINE Land Cover–90 on the basis of Landsat TM images)



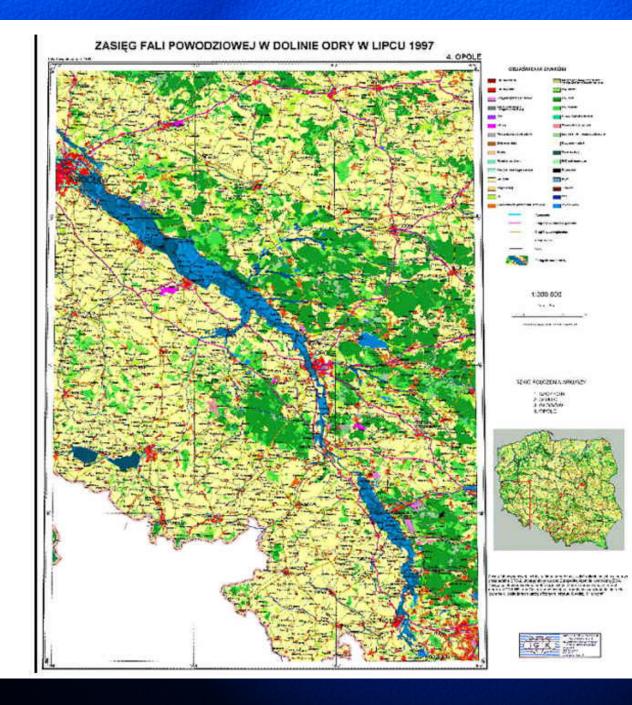
Map of land use in Kraków region



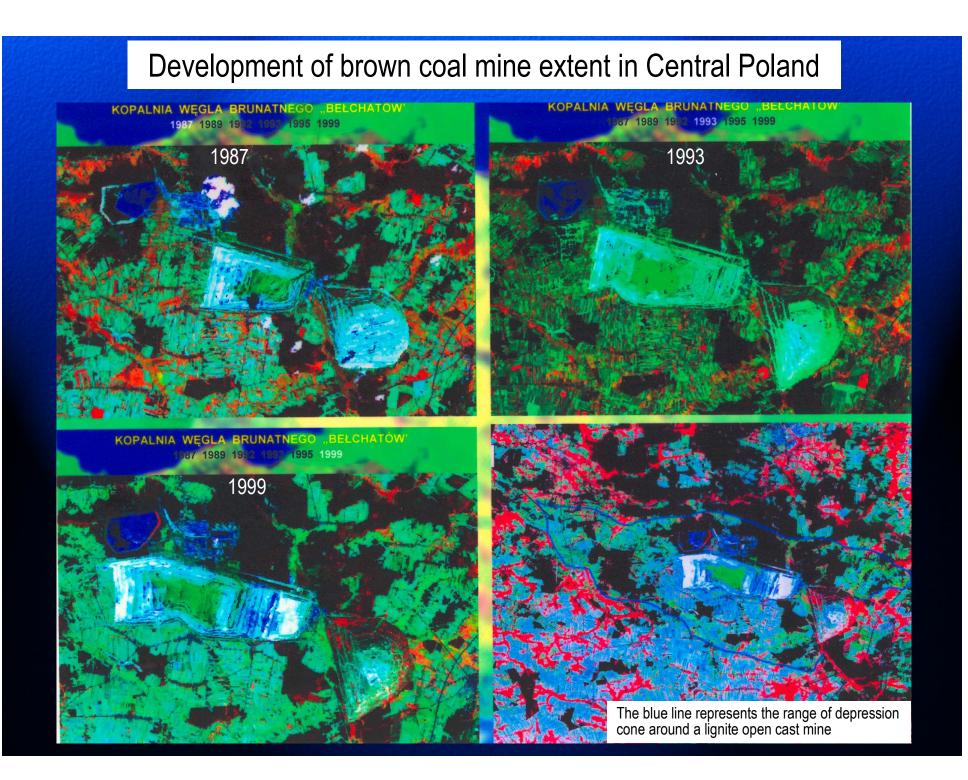
Satellite image map of Poland included to the National Atlas of Republic of Poland (1995)



Mapping flood extent in Odra River basin in 1997 based on satellite images



The range of flood in upper Odra river valley in 1997 on the background of land use

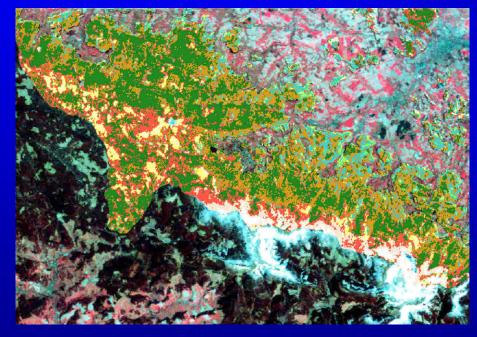


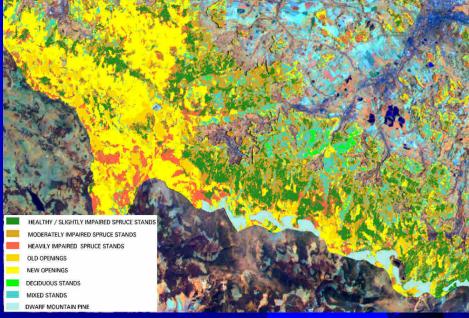
Assessment of the health of forests in the area of the ecological disaster in south-western Poland (Black Triangle Area)

"Black Triangle" – Ecological disaster in the Sudety Mts.



Changes in the spruce stands in Western Sudety Mts.

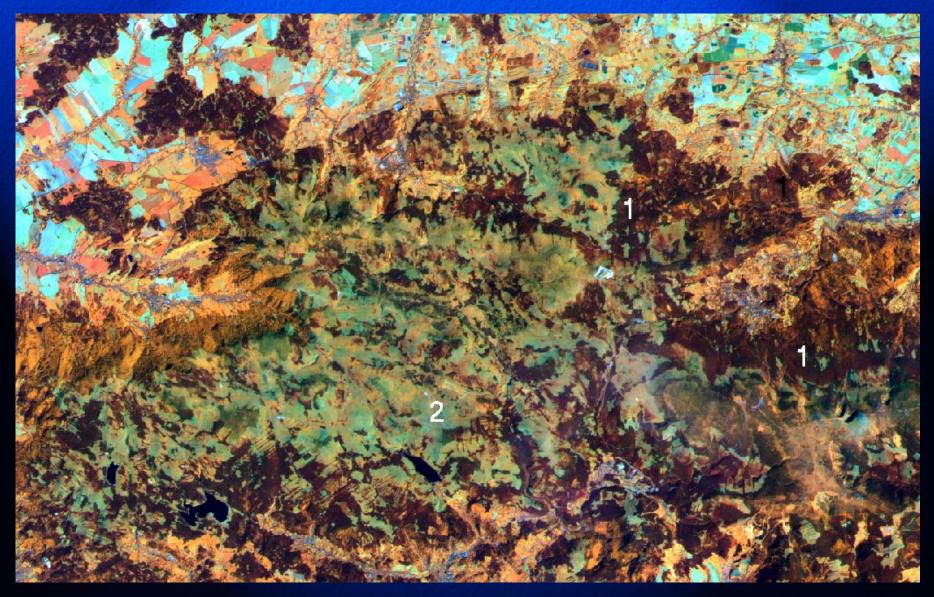




Landsat MSS – 1976

Landsat TM – 1990

Ecological disaster in Sudety Mts.



ANDRZEJ CIORKOSZ - MAREK OST.DOVS.KI

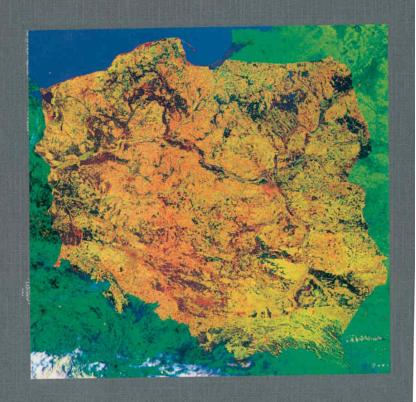
ATLAS ZDJĘĆ SATELITARNYCH 2015KI



SCI & ART

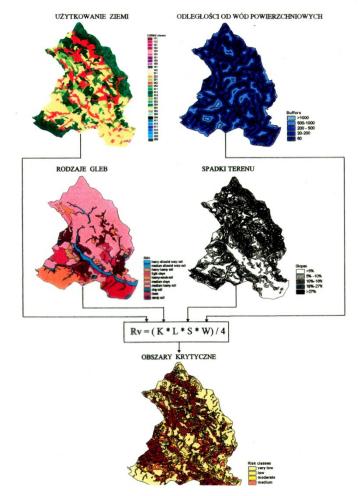
ANTDRZIEJ CTOŁKOSZ MAREK OSTROWSE

ATLAS of satellite images of POLAND



SCI & ART

Watershed modelling



Wyznaczanie obszarów krytycznych zanieczyszczeń wód zlewni Ścinawki

Conclusion

- Majority of scientific works and applied studies at the RSC OPOLiS performed with use of Landsat missions images
- The impact of Landsat hard to be exaggerated
- Many scientific careers have been developing in the "shadow" of Landsat

