

CEReS is waiting for you

Josaphat Tetuko Sri Sumantyo

My research fields are microwave remote sensing and its applications, especially development on synthetic aperture radar (SAR) devices, unmanned aerial vehicle (UAV) and, microsattellites. Students can study synthetic aperture radar (SAR) image processing and its application, Synthetic Aperture Radar (SAR) devices, unmanned aerial vehicle (UAV) and, microsattellites.
<http://www2.cr.chiba-u.jp/jmsr/>



UAV experiment with a newly developed SAR

Remote Sensing

Yoshiaki Honda

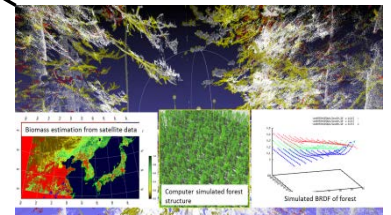
My main research subject is vegetation remote sensing regarding with the GCOM-C1 Research. Students can study vegetation remote sensing and ground validation.



Ground validation by helicopter for vegetation remote sensing

Koji Kajiwara

My main research subject is vegetation biomass estimation for global/continental scale using earth observation satellite data based on ground observation of vegetation structure and spectral information. Students can study measurement methods for vegetation spectrum, forest structure observation using LIDAR system, computer simulation of BRDF, and huge volume satellite data processing.

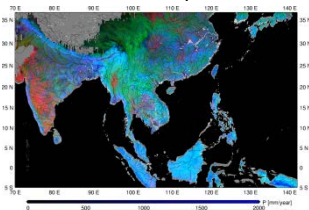


Hiroaki Kuze

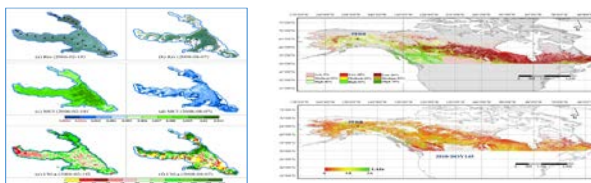
My main research subject is developing optical methods for precise understanding of atmospheric processes and surface reflection phenomena using coordinated application of satellite and ground-based observations. Students can study satellite and ground-based atmospheric remote sensing.
<http://www.cr.chiba-u.jp/~kuze-lab/index.html>

Yang Wei

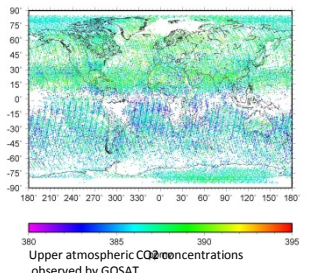
My researches are to study global climate changes and adaptations on inland waters and terrestrial vegetation based on remote estimation of ecosystems' biophysical and biogeochemical parameters at a global/continental scale over long periods. Students can study radiative transfer models and remote sensing algorithms for retrieving the parameters for waters and vegetation.



RGB composite map to diagnose land-atmosphere coupling. Annual mean rainfall (blue), annual mean NDVI (green), and frequency of surface temperature stress (red).



Two examples of the satellite estimates of water quality parameters in Lake Kasumigaura, Japan (left) and leaf area index in Boreal forests of North America (right).



Upper atmospheric CO₂ concentrations observed by GOSAT

Atsushi Higuchi

My main research theme is understanding land-atmosphere interaction process in the Earth climate system using long-term several satellite observations. Students can study regional climate or meteorological phenomena by long-term satellite observation datasets.
http://www.cr.chiba-u.jp/~higulab/top_wiki/

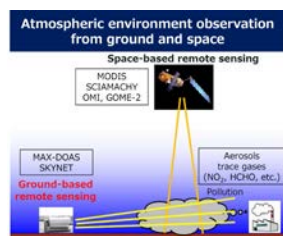
Global Environmental Science

Naoko Saitoh

My research field is atmospheric science utilizing satellite remote sensing. Students can study the basis of atmospheric gas retrieval and satellite data analysis.
<http://www.cr.chiba-u.jp/~saitohlab/>

Hitoshi Irie

My research field is atmospheric environmental science including atmospheric chemistry and physics. Students can study the advanced utilization of remote sensing to understand where, when, and how large atmospheric environment is changing on a global scale.
http://www.cr.chiba-u.jp/~iriellab/index_e.html



Synergistic use of ground- and space-based remote sensing for advanced atmospheric environment research.

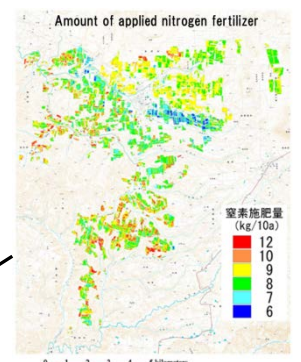
Akihiko Kondoh

My research fields are geography and hydrology, that is human geosciences. Students can study geographic analyses for the cultivation of the sound relationship between human and nature.
<http://dbx.cr.chiba-u.jp/>

Contribution to Society

Chiharu Hongo

My main research subjects are environmental sciences and food production. Students can study environmental conscious food production through analysis and diagnosis of agricultural ecosystem by remote sensing.



Map of nitrogen fertilization amount to be recommended for potato cultivation