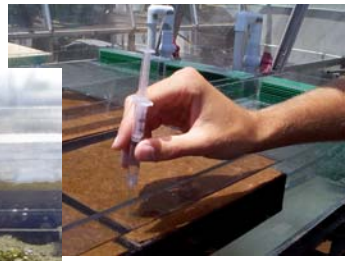
Greenhouse Facilities
Early Microbial Ecosystems Research Group (EMERG)
NASA Ames Research Center

EMERG
Early Microbial Ecosystems Research Group

Experimental Manipulations

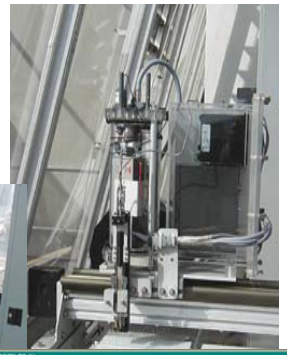
Trace Gas Production and Consumption Under "Early Earth" Conditions

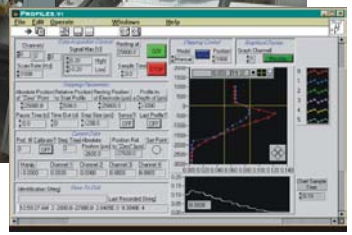


Greenhouses Offer:
- Natural Light
- Realistic Flow Fields
- Natural Solar UV

Technology Development

Microsensors, Remote Instrumentation Collaboratory

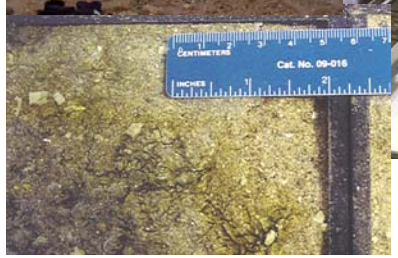




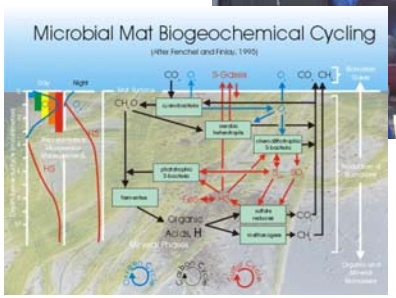
Long Term Monitoring

Used for

Maintenance of Field Collected Mats and Growth of Defined Communities



Detailed Studies of Mat Biogeochemistry with Improved Access to Analytical Instrumentation



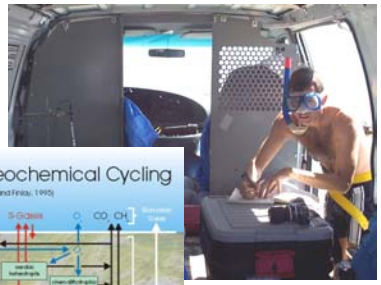
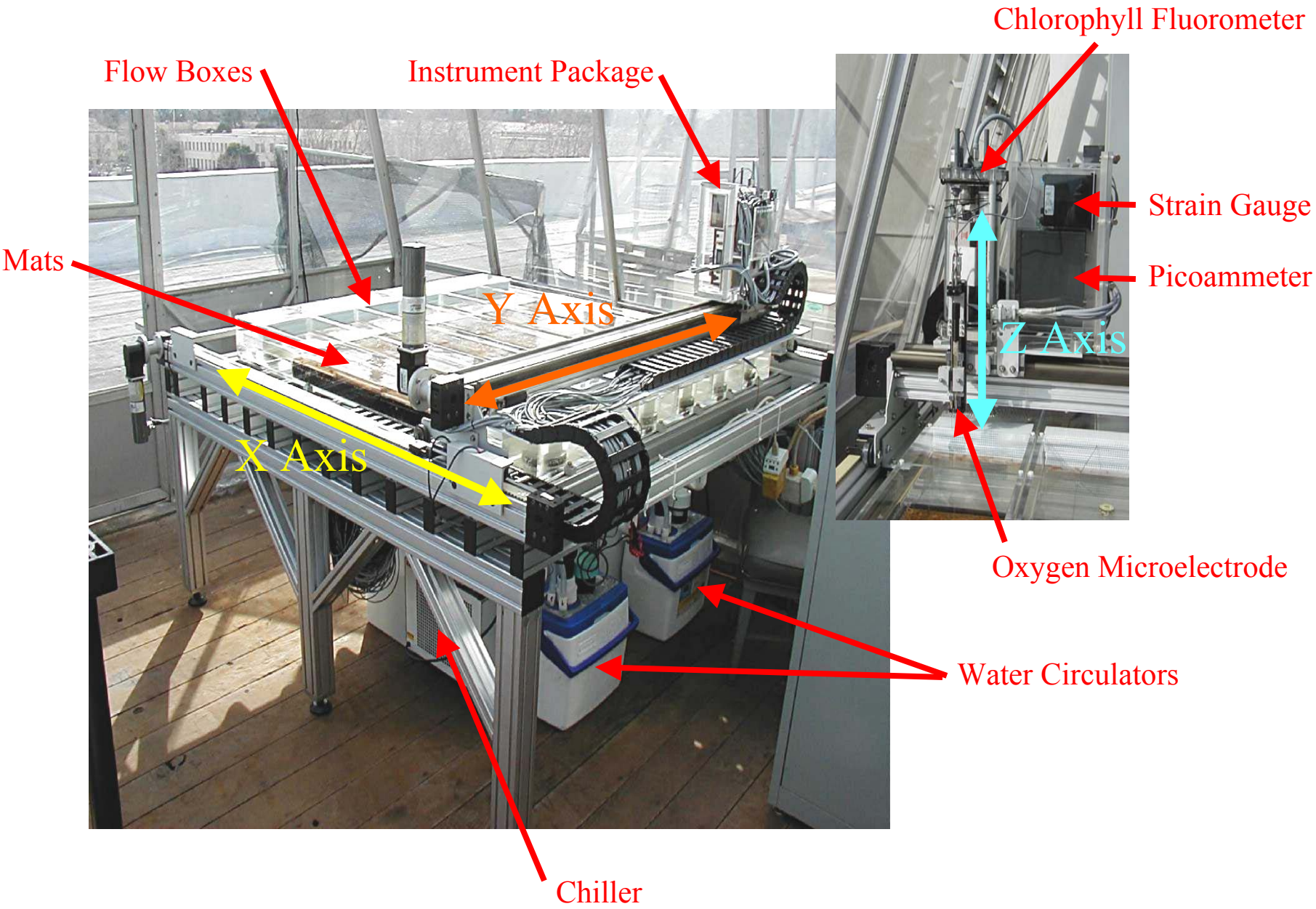
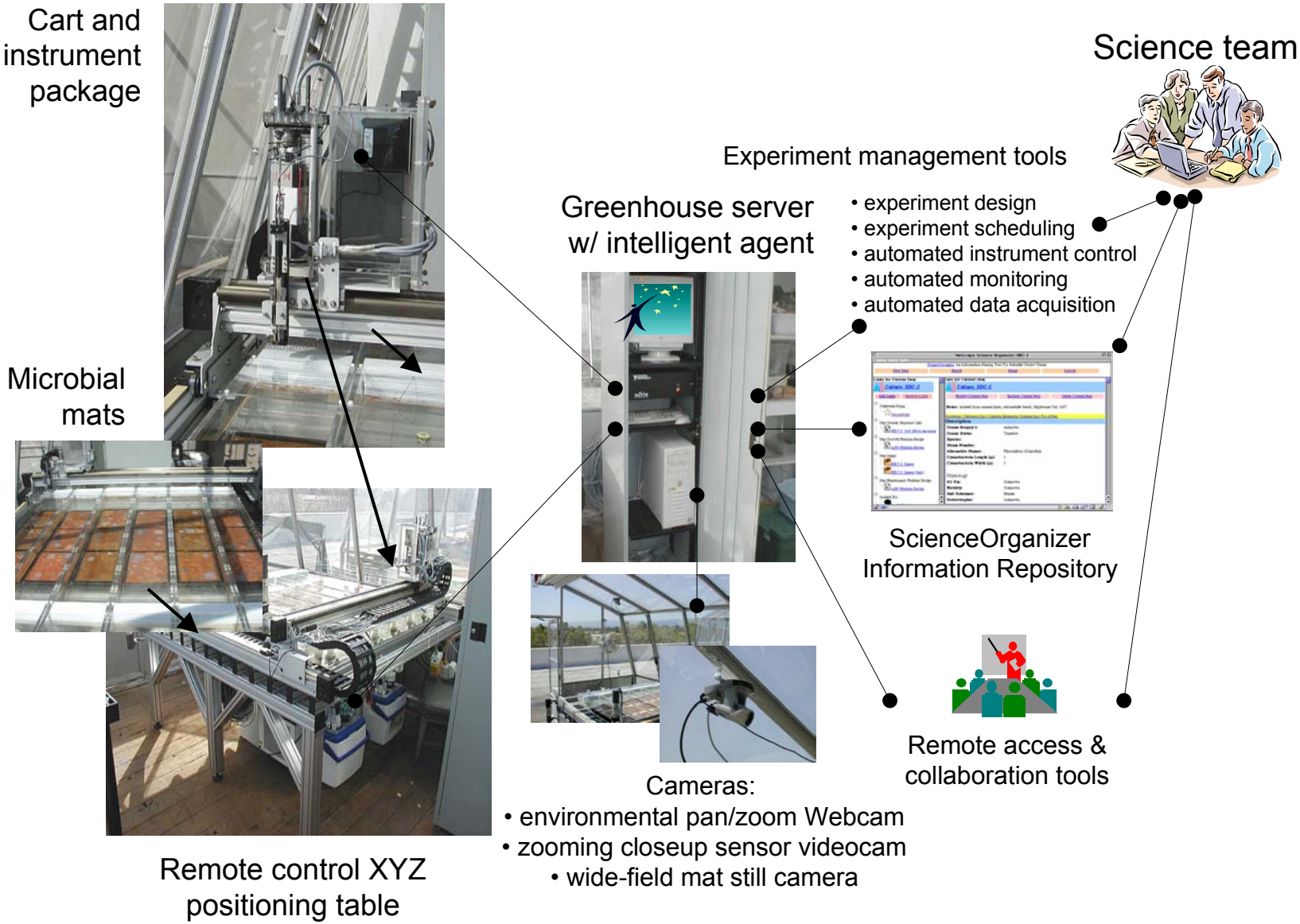


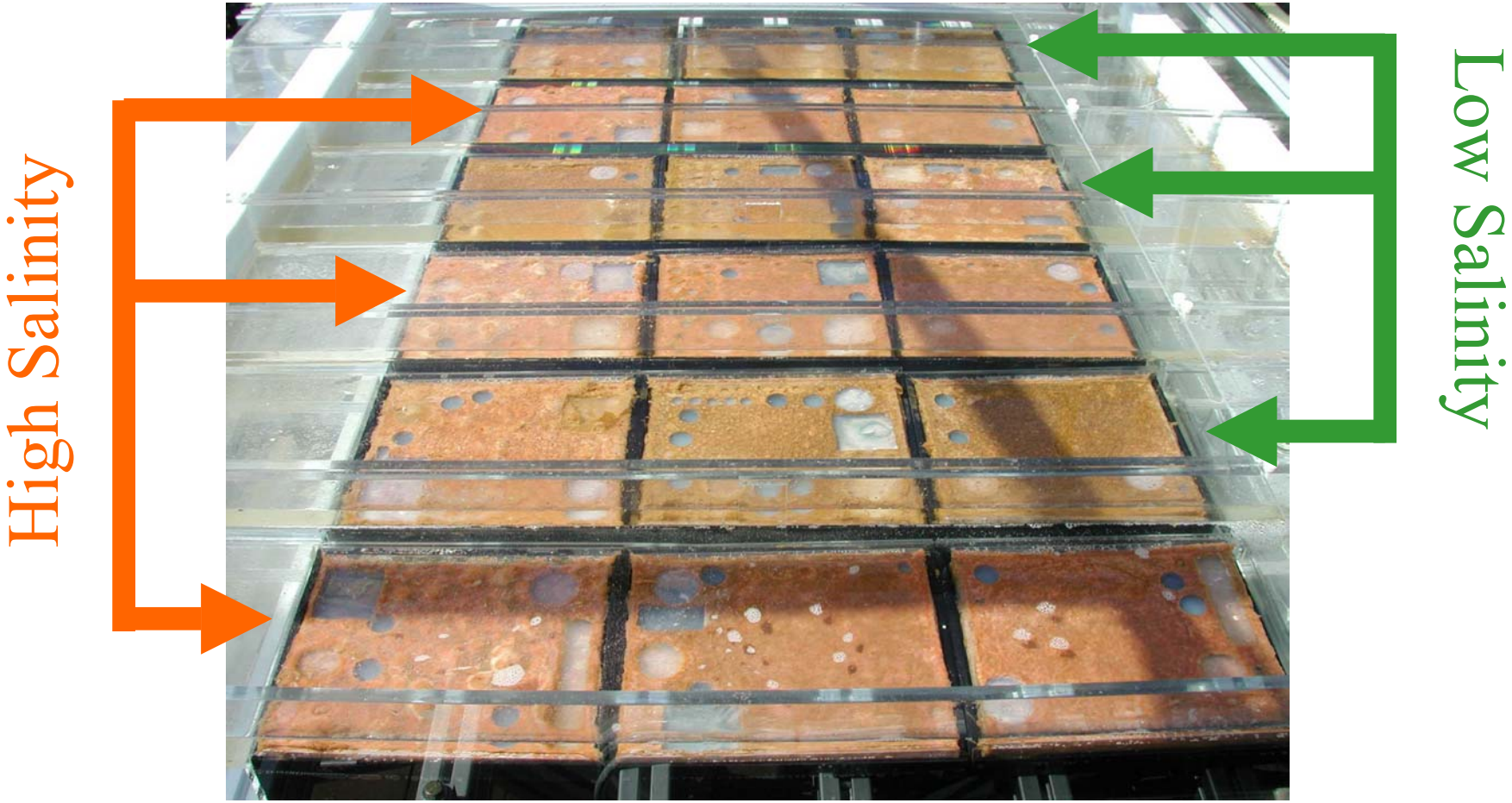
Diagram of the Remotely Operable XYZ Table



Organizational Diagram of the Collaboratory Configuration



Color Changes Observed in Our First Manipulation (Salinity)



Appearance of the mats on 3/29/01. The color difference between high (120 ppt) and low (90 ppt) salinities can be seen. Clear spots on mats are places where samples have been taken.