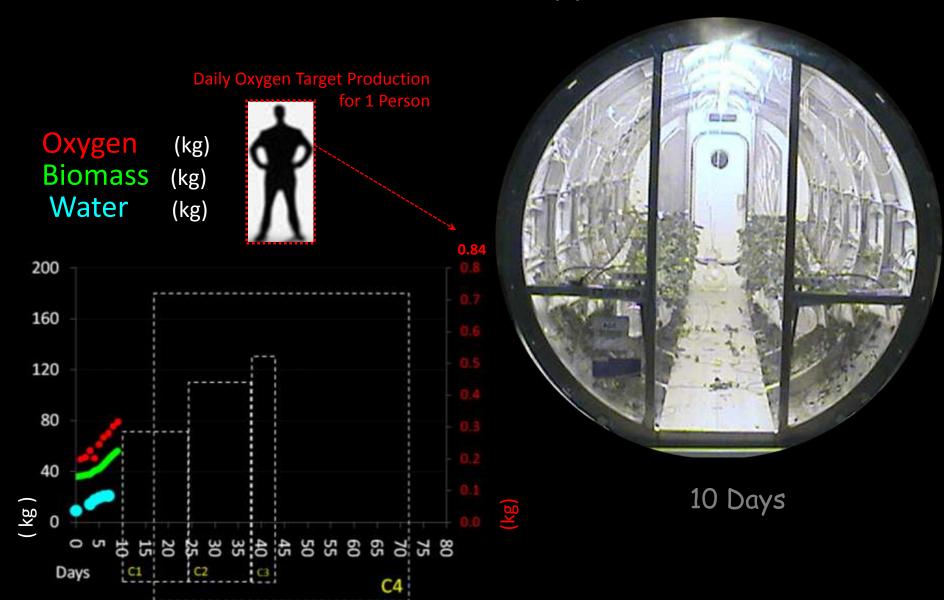
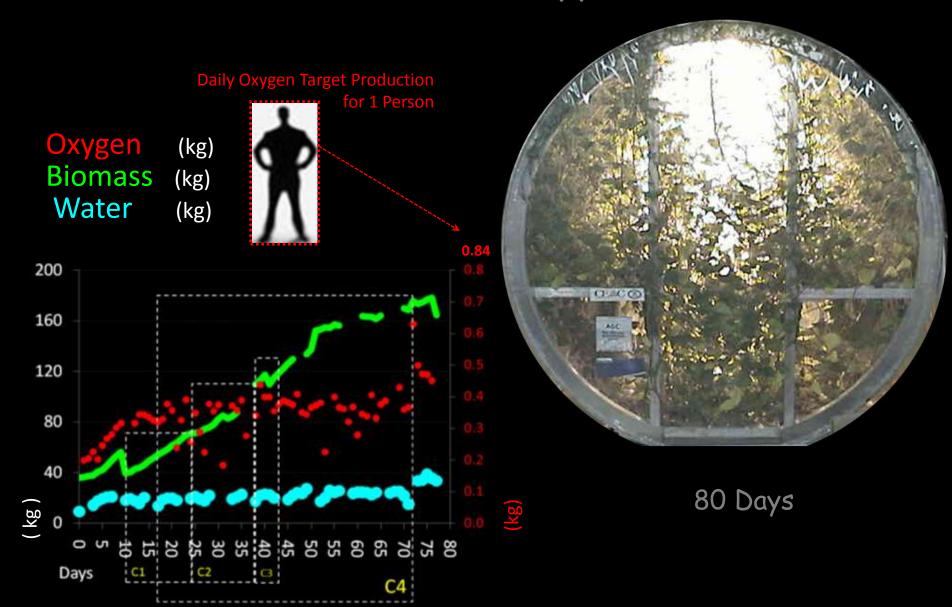
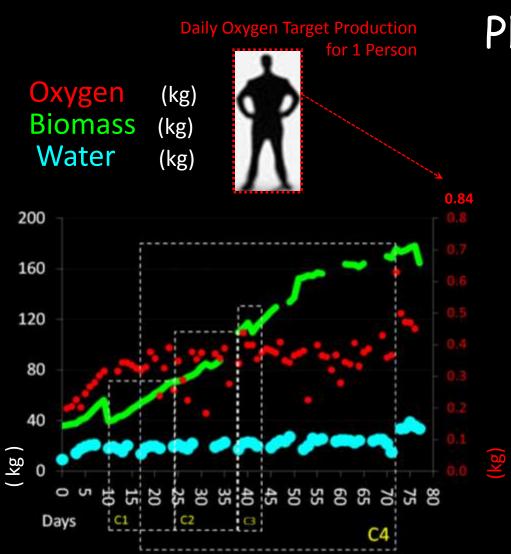
# Steckler Phase I LGH Life Support Old Data



# Steckler Phase I LGH Life Support Old Data





### Phase I Labor

(More than 40 hr/week)

Many key Phase I measurements had to made by hand and on a daily basis if possible

#### Simulated Astronaut

(i.e. 3 Students Workers)

# Phase II Labor

(Students split 30 hr/week)



Michael Downing

Thomas Hillebrand

Tyler Jensen

### Simulated Astronaut

(i.e. 3 Students Workers)

## Phase II Labor

(Students split 30 hr/week)



### Michael Downing

Planting, Harvesting, Mixing Nutrients and Checking the environmental set points etc...

Lab Inventory

Maintenance

**Data Analysis** 

### Simulated Astronaut

(i.e. 3 Students Workers)

## Phase II Labor

(Students split 30 hr/week)



#### Thomas Hillebrand

Drying and Measuring LGH Harvest Mass

**Data Processing** 

### Simulated Astronaut

(i.e. 3 Students Workers)

## Phase II Labor

(Students split 30 hr/week)



Tyler Jensen

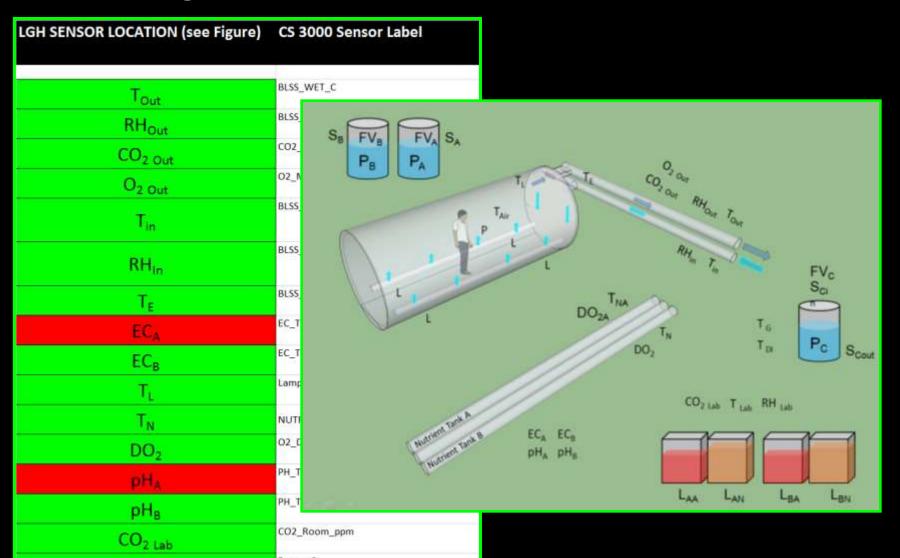
Tissue and Nutrient Sampling

Data Processing

Measuring LGH Leak Rates

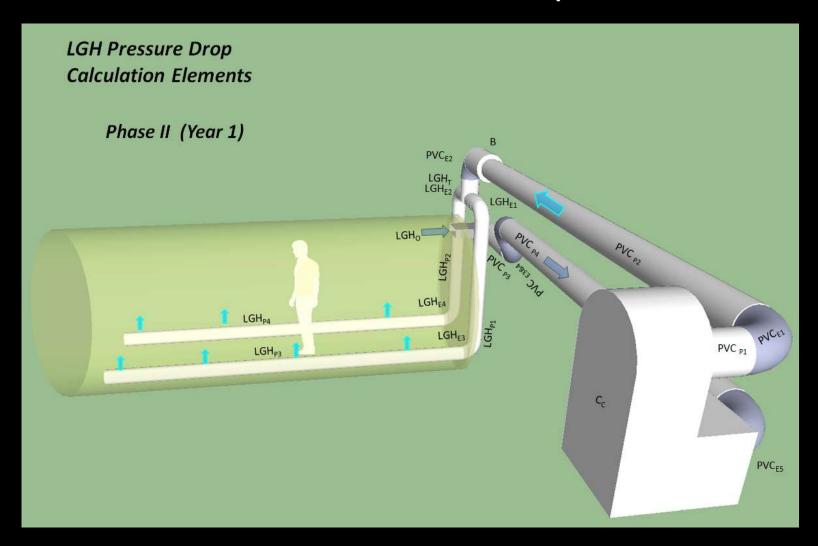
## Steckler Phase II LGH Life Support New Sensors

Improving resolution of measurements over Phase I and increasing automation



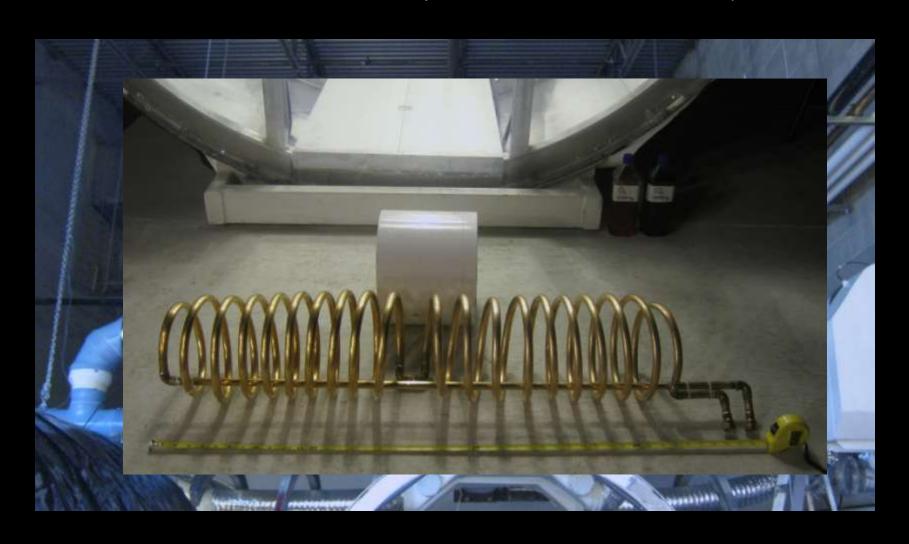
# Steckler Phase II LGH Life Support New Air Ducting Design

# Improved Seal

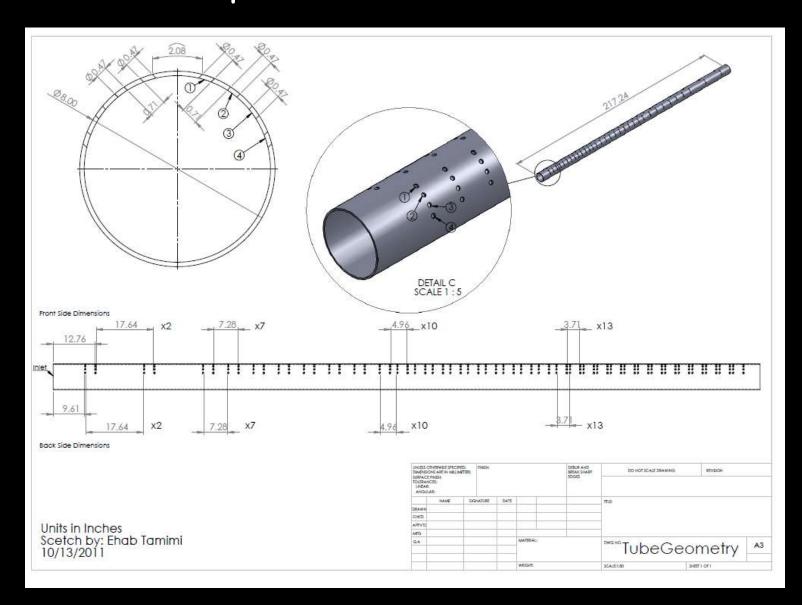


# Steckler Phase II LGH Life Support New Air Heating Coil

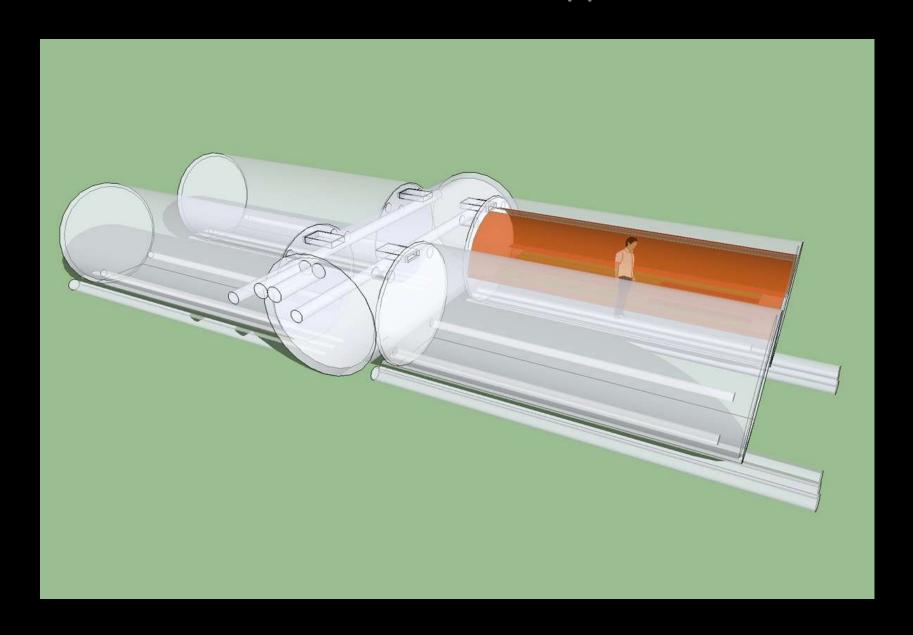
# Improved Humidity Control



# Steckler Phase II LGH Life Support Air Distribution Improvement



# Steckler Phase II LGH Life Support 3 More Pods



# Steckler Phase II LGH Life Support BLSS Processes

#### Earth

Photosynthesis
Respiration
Transpiration
Condensation
Evaporation

### **LGH**

Photosynthesis Respiration Transpiration Condensation Evaporation



