**Kations:**

Is there a change in the Ca and K concentration at all for harvest time/species?

 HPLC

Is there a change in the K and Ca concentration correlation with the stomata opening?

 HPLC, Porometry

Is there a correlation between the Kations and the sugars and how does this relate to C3 vs. CAM and during which time?

 HPLC, Metabolism data, GC, mass spectrometer

What about ammonium content in C3 plants during high temperature treatment?

HPLC, Climate data, pH

Is the Mg content in pseudo-C3 plants lower?

 HPLC, pH, Metabolomics

**Pigments:**

Do plants in the shadow have more/less chlorophyll than in light?

Are treatment plants protected against strong light by pigments/anatomy?

Could the fluorescence be a measurement for general fitness?

Is there more Carotinoids in the treatment group because of the high intensity of light (water layer?)?

Do the relations between Chlorophyll a and b change in high light vs. low light?

**Metabolism:**

Is there a correlation between the Kations and the sugars and how does this relate to C3 vs. CAM and during which time?

Is there a plant that can not change to CAM photosynthesis?

If plants switch form CAM to C3, do they still produce Malat?

When is the Malat concentration the highest?

Do stressed plants use more sugars for respiration?

How does a C4 plant behave in comparison (Porometry, Fv/Fm)?

Concentration of citric acid at different times?

Is the plant with the most stomata also the one with the most transpiration?

**Climate:**

What is the most important factor for CAM/C3 changing (T, light, nutrients, humidity..)?

Do the CAM plants feel happier in low light or is it stressful for them to change “ecological niche”?

Do plants in high light use the light efficiently or does it only cause stress?