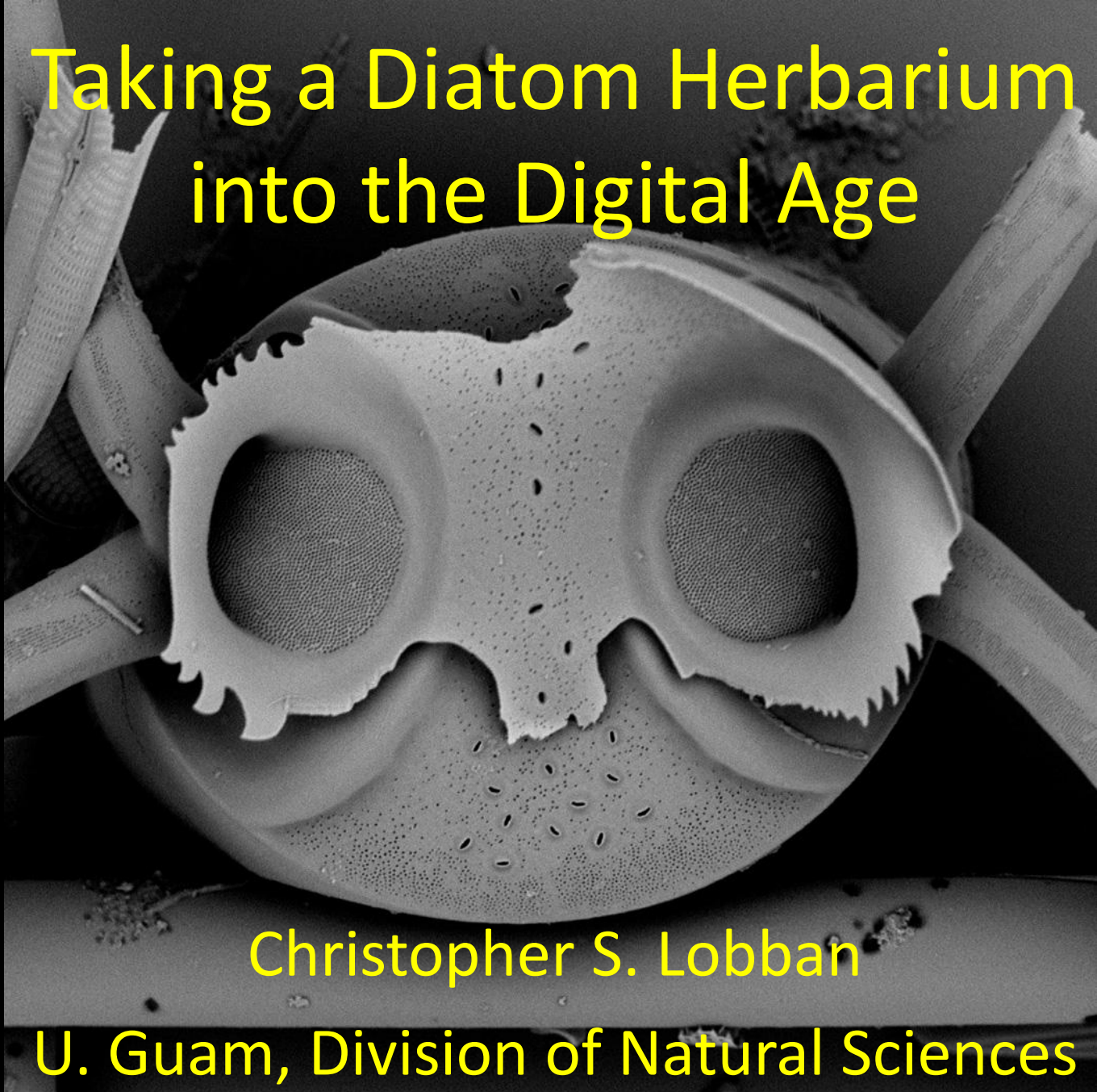


Taking a Diatom Herbarium into the Digital Age



Christopher S. Lobban

U. Guam, Division of Natural Sciences

20 μm



5100x
52.6 μm

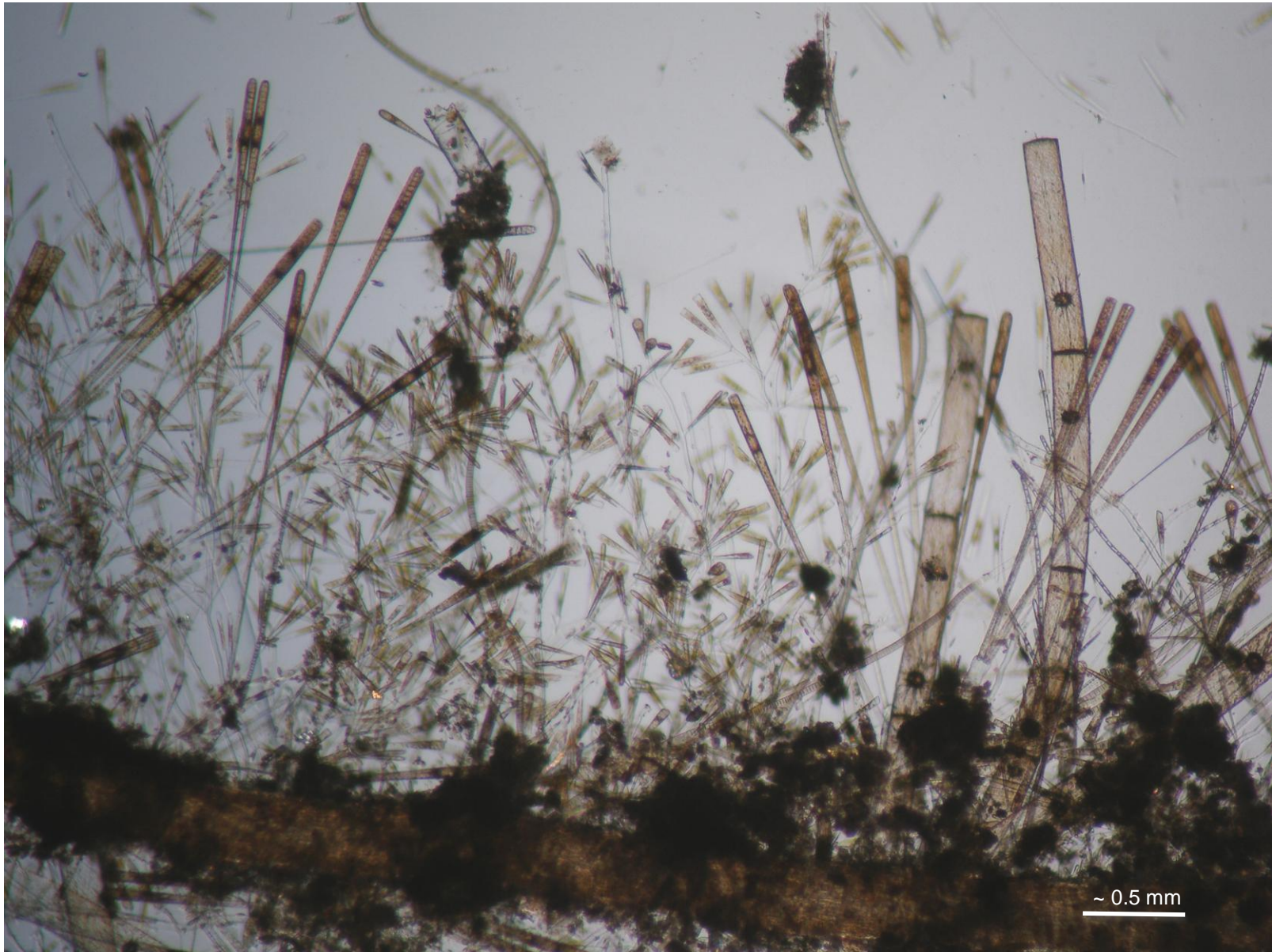
JAN 02 2013 16:22
GU44AR-1_st344

Herbarium material includes preserved community samples,...



Farmer fish (*Stegastes nigricans*) with its diatom-coated algal turf "farm"

... permanent mounts on slides, and SEM stubs.



Detail of diatom coating on a seaweed filament.

Samples are digested in acid to remove organic matter.

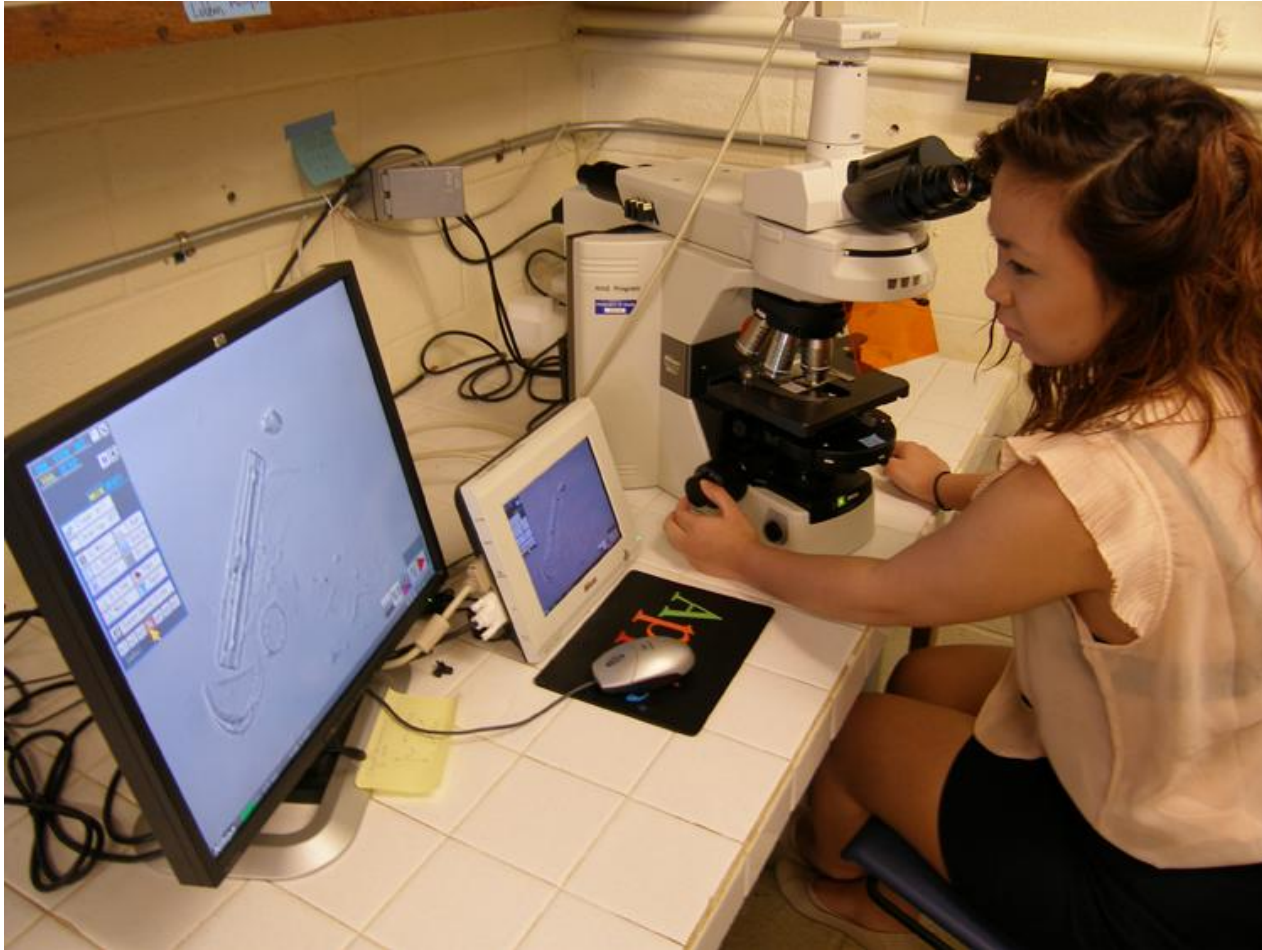


Diatom collection presently comprises 750 raw samples, 1,400 slides, 500 SEM stubs and 74,000 images.

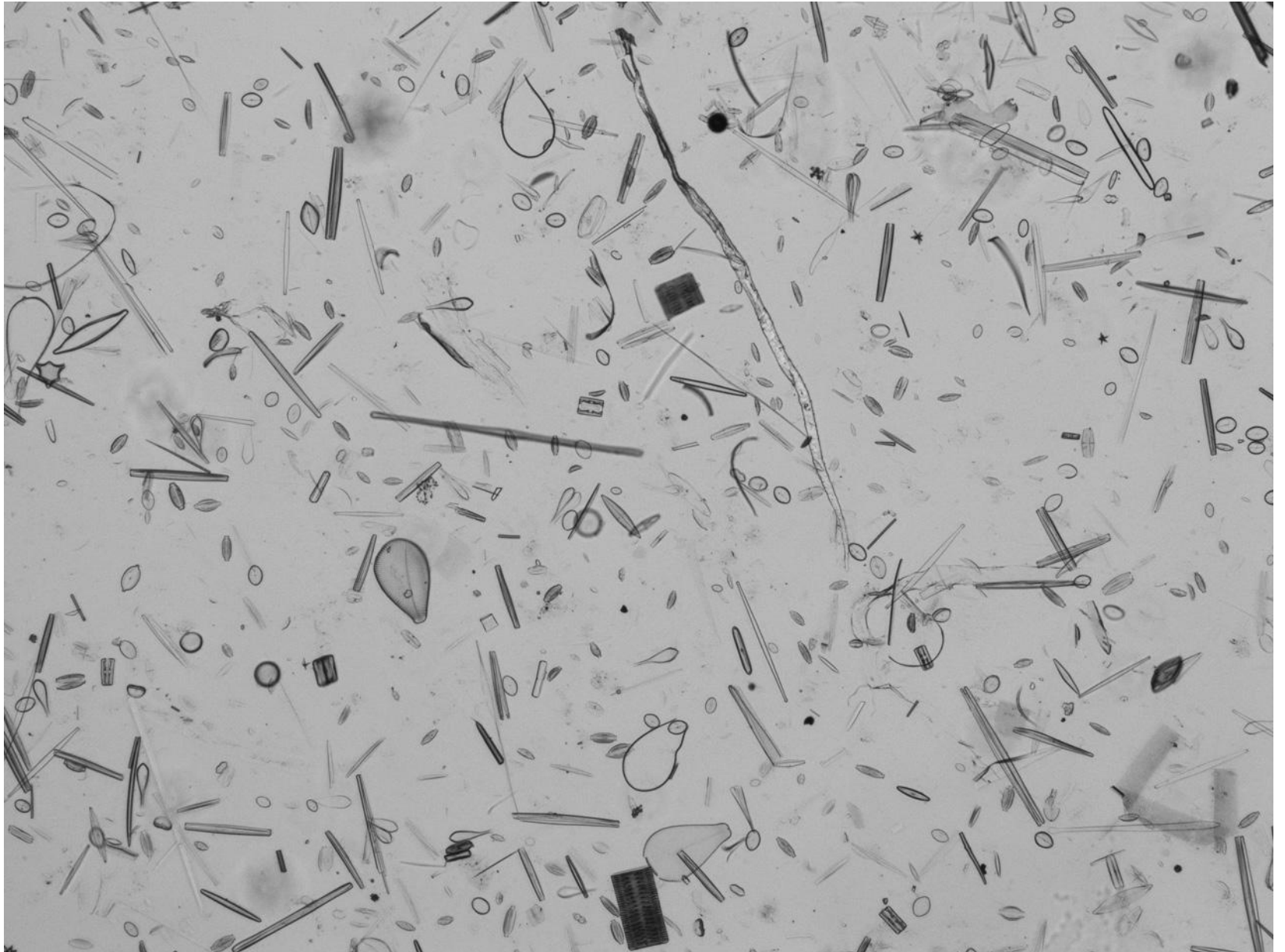


LM room of the Microscopy Teaching & Research Lab, CNAS, UOG.

Most imaging done with differential interference contrast (DIC) on Nikon 80i microscope.



Each slide has thousands of specimens and scores of species.

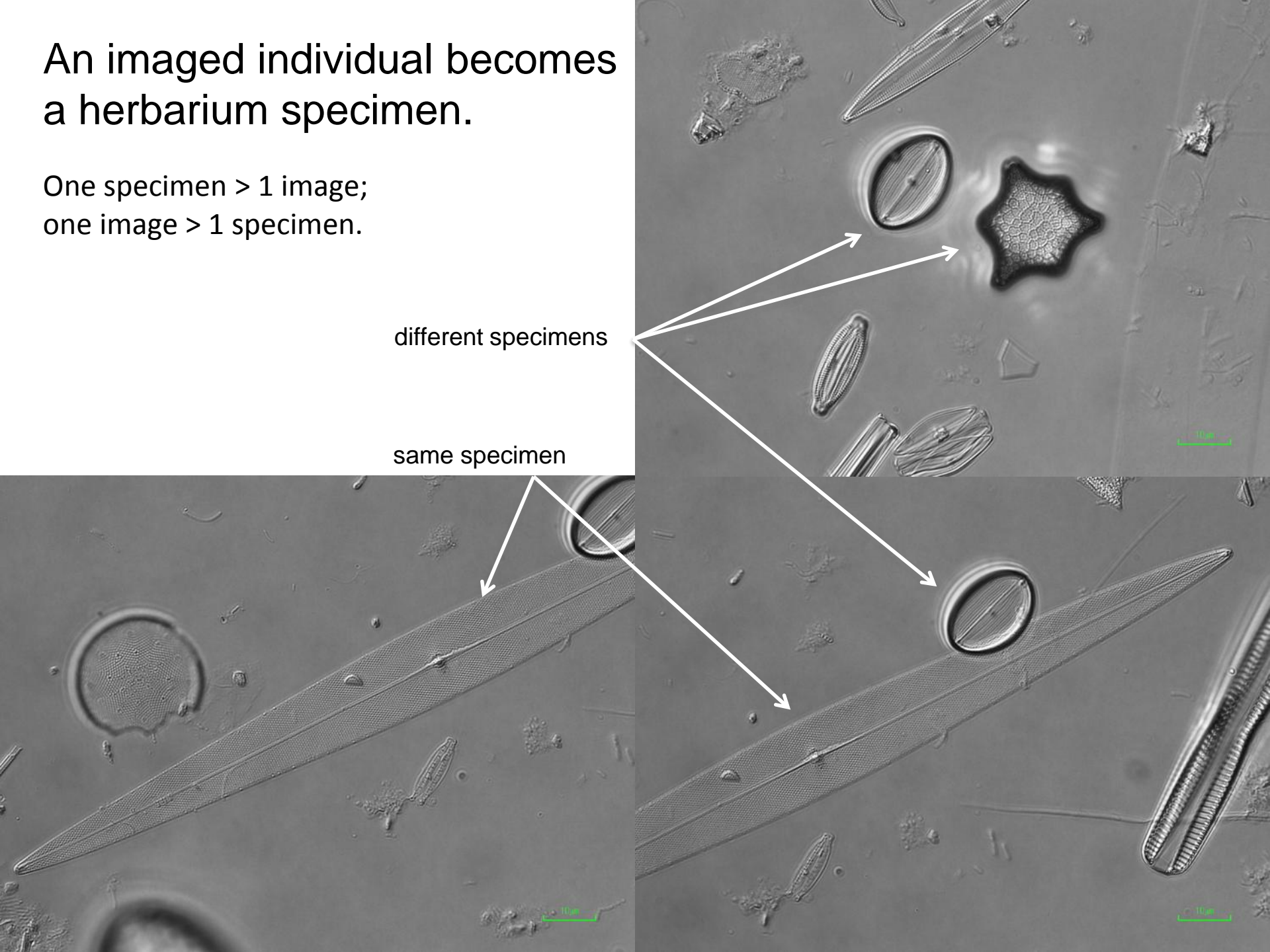


An imaged individual becomes a herbarium specimen.

One specimen > 1 image;
one image > 1 specimen.


different specimens

same specimen




I will use Specify to be able to display records by species, genus, sample, etc.

▼ **GU52P-4 slide 838** September 2, 2011




02133716

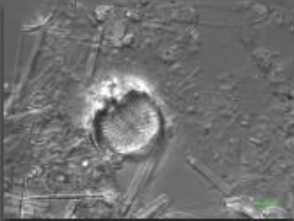
▼ **GU52P-5 slide 821** September 6, 2011



06101519

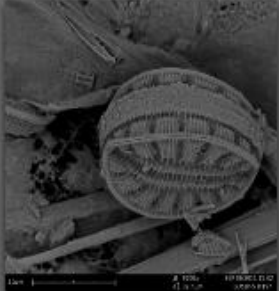


06101549

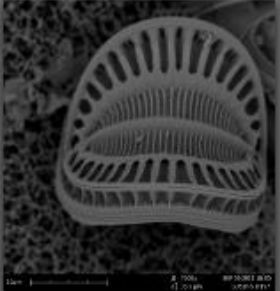


06125002

▼ **GU52P-5 stub 197 CL** September 6, 2011

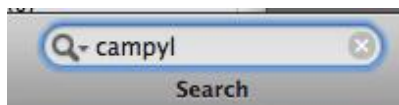


GU52P-5 st197 0063



GU52P-5 st197 0108

iPhoto!



Selected images so far
displayed on static
website

ProtistCentral>
Western Pacific Diatoms Project

http://www.protistcentral.org/index.php/Project/get/project_id/17



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Taxa ::

[subkingdom Stramenopiles](#) >
[phylum Bacillariophyta](#) >
[class Coscinodiscophyceae](#) >
[subclass Chaetocerotophycidae](#) >
[order Chaetocerotales](#) >
[family Chaetocerolaceae](#) >
[genus Chaetoceros](#) >

Chaetoceros Guam-sp.3

Identification

There is no identification information available for *Chaetoceros Guam-sp.3*.

Projects This is Associated With

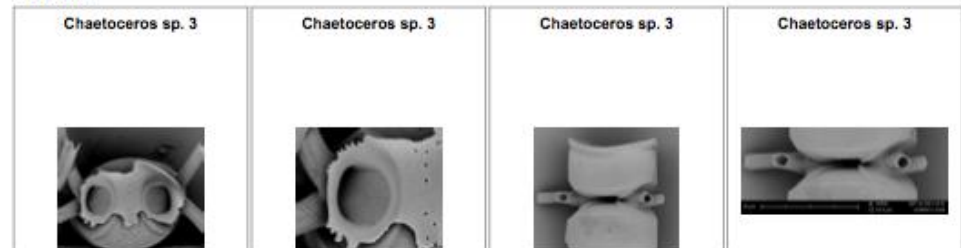
[Western Pacific Diatoms Project](#)

Last Updated

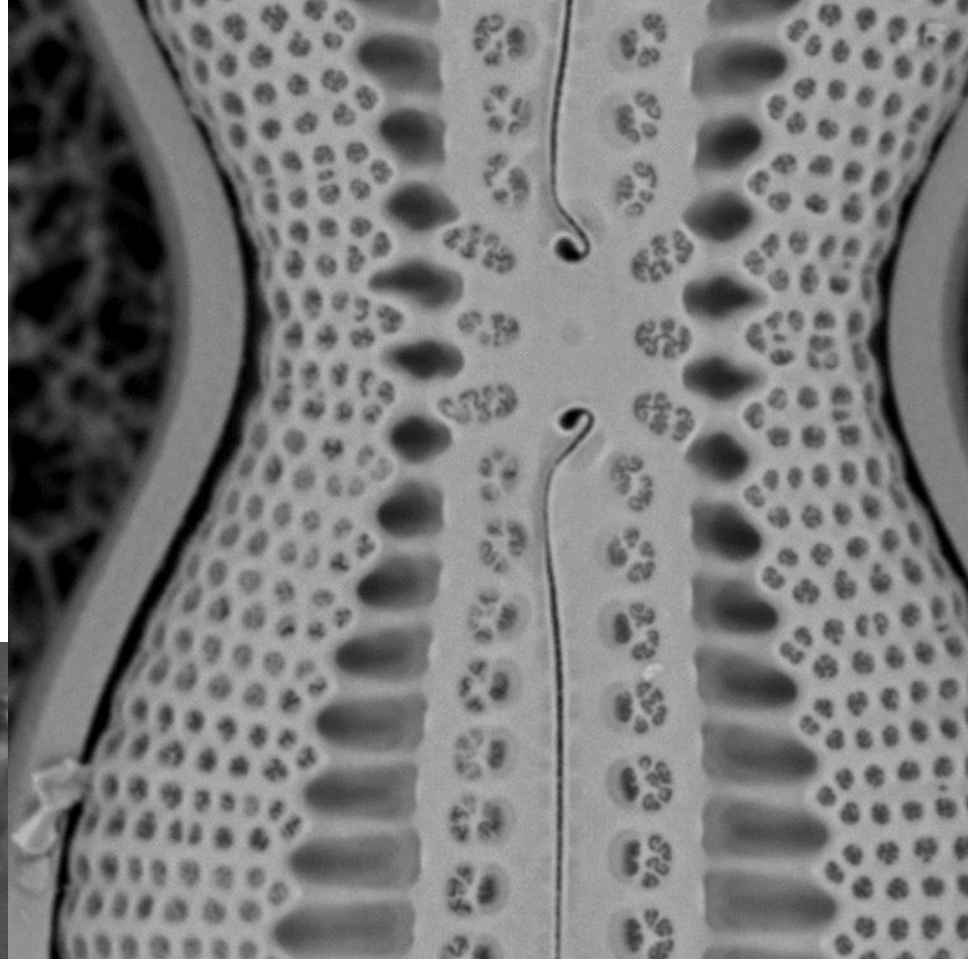
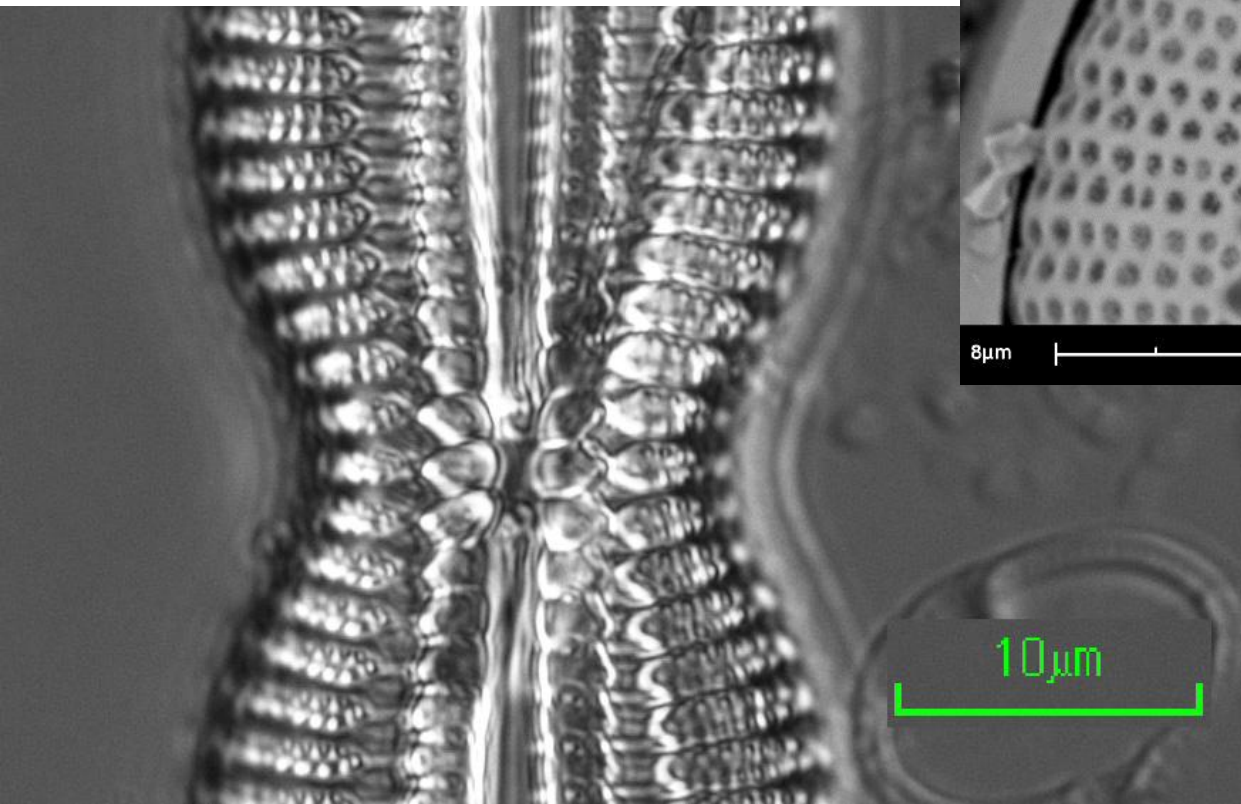
Added by Chris Lobban on June 12, 2013, 11:17 am

Last edited by Chris Lobban on June 12, 2013, 11:17 am

Photos



Thank you.



8 μm



14000x
19.1 μm

DEC 28 2011 11:13
GU44AK-6 st266

10 μm

