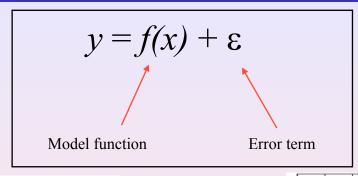
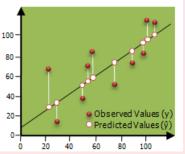
Modelling Data

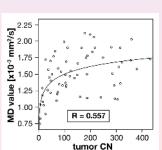
Dale Easley
University of Dubuque

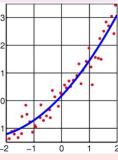


Choosing a Model

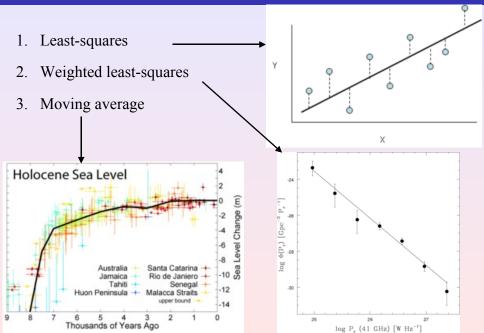






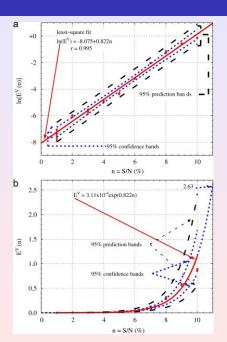


Fitting a Model



Goodness of fit

- Measured relative to your model
- If you have the wrong model, you might still get a good fit!
- Confidence estimates are quite different than prediction estimates



Exercise

- Come up with three models you've used in science classes.
- Identify functional (ideal) behavior.
- Identify main potential sources of error.



Dale Easley writes: "I just returned from two weeks in Botswana with a group of students from the University of Dubuque where I am a geology professor. My X-treme Adventure Pants were my go-to outfit, as was my Explorer Shirt. In the attached photo, I am at Elephant Sands, a great spot to drink a beer and watch elephants after a night camping in the bush. We had elephants and hyenas around our tents near a watering hole. Is this a good model?