Name:		Measuring the Earth  Earth Science
Date.	T chod.	Lai in Odichec
Lab Activity: Field Maps and Isolines		
INTRODUCTION:		
Earth's surface there are hur		y that can be measured at every point. On uantities. Some examples of measurable all amounts, and humidity.
	you will see many different types ng temperature data in the classr	of field maps. In this lab we will be room.
OBJECTIVE:		
You will use different forms of between two different location		maps and be able to calculate gradient
VOCABULARY:		
Field -		
Isoline-		
landla area		
Isotherm -		
Isobar -		

earthtoleigh.com Page 1

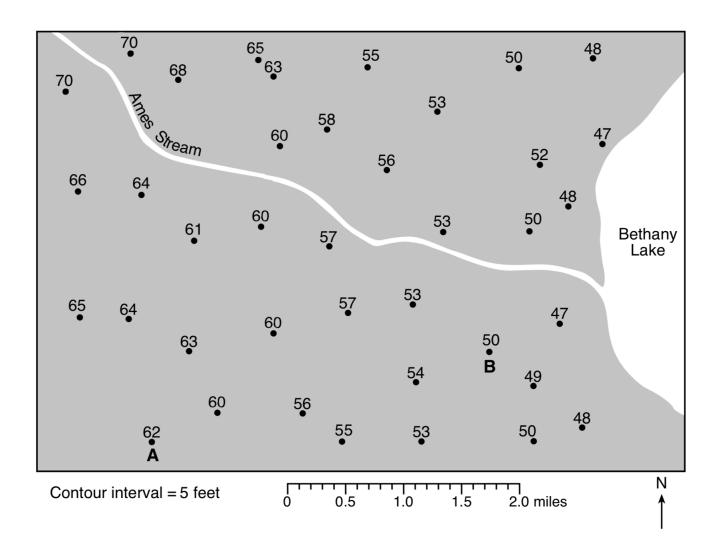
Isohyet -

# Lab Activity: Field Maps and Isolines

### PROCEDURE A:

Using the Ames Stream Map below, draw in all the contour lines at 5 foot intervals on the map. Letter A and B will be used in the discussion questions. Be sure to extend the contour lines to the edges of the map.

### AMES STREAM MAP



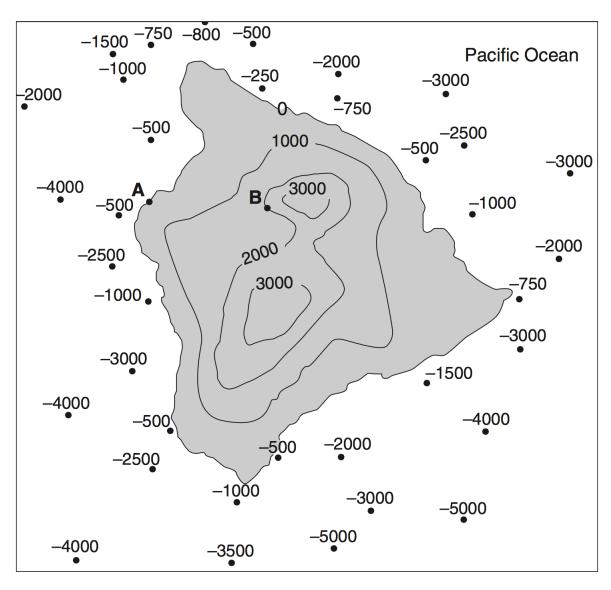
earthtoleigh.com Page 2

## Lab Activity: Field Maps and Isolines

### PROCEDURE B:

Using the Hawaii Map, construct ocean floor depths using 1000 meter intervals on the map. Letter A and B will be used in the discussion questions. Be sure to extend the contour lines to the edges of the map or form complete rings. Elevations are in meters.

#### HAWAII MAP



0 10 20 30 40 50 km

earthtoleigh.com Page 3

# Lab Activity: Field Maps and Isolines

DISCUSSION QUESTIONS:
1. How many dimensions are represented on a standard isoline map?
2. Other than an elevation field map, name three other types of field maps.
3. List three rules that you should follow when constructing isolines.
4. Using the Ames Stream Map, calculate the gradient between points A and B.
5. Using the Hawaii Map, calculate the gradient between points A and B.
CONCLUSION: Describe, step by step, how we can map the field of a variable quantity?

Page 4 earthtoleigh.com