



**CALIFORNIA STATE SCIENCE FAIR  
2002 PROJECT SUMMARY**

<b>Name(s)</b> Carter E. Greenbaum	<b>Project Number</b>  22587
<b>Project Title</b> Predicting Coastal Bluff Erosion	
<b>Abstract</b> <b>Objectives/Goals</b> Objective: The objective is to predict where coastal bluff top erosion will occur. <b>Methods/Materials</b> Materials and method: (3 boxes, dirt, rocks and three water sources) three different dioramas of bluffs were constructed. Each having different forms of bedrock, vertical, diagonal and horizontal. Each had six rocks and the same amount of dirt. Water dripped on these dioramas for 24 hours at 10 drops a minute. <b>Results</b> Results: The height of the diagonal diorama was 5.7-cm. For trial one, 2.3 cm depth and 4.5 cm. For the horizontal diorama, height: 2.5 cm, Depth: 1 cm, Width 3.3 cm. For the vertical diorama, height: 5 cm, depth: 4.3 cm, width 5.5 cm. <b>Conclusions/Discussion</b> Conclusion: The horizontal diorama had the least amount of erosion	
<b>Summary Statement</b> My project is about predicting where Erosion will occur (on which bed rock more than other.)	
<b>Help Received</b> Mother corrected grammar. Sister helped gather materials. Dad helped think of project idea.	