

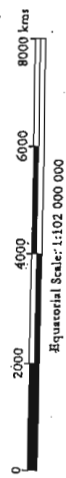
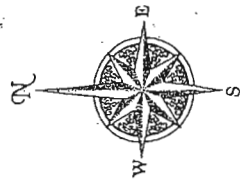
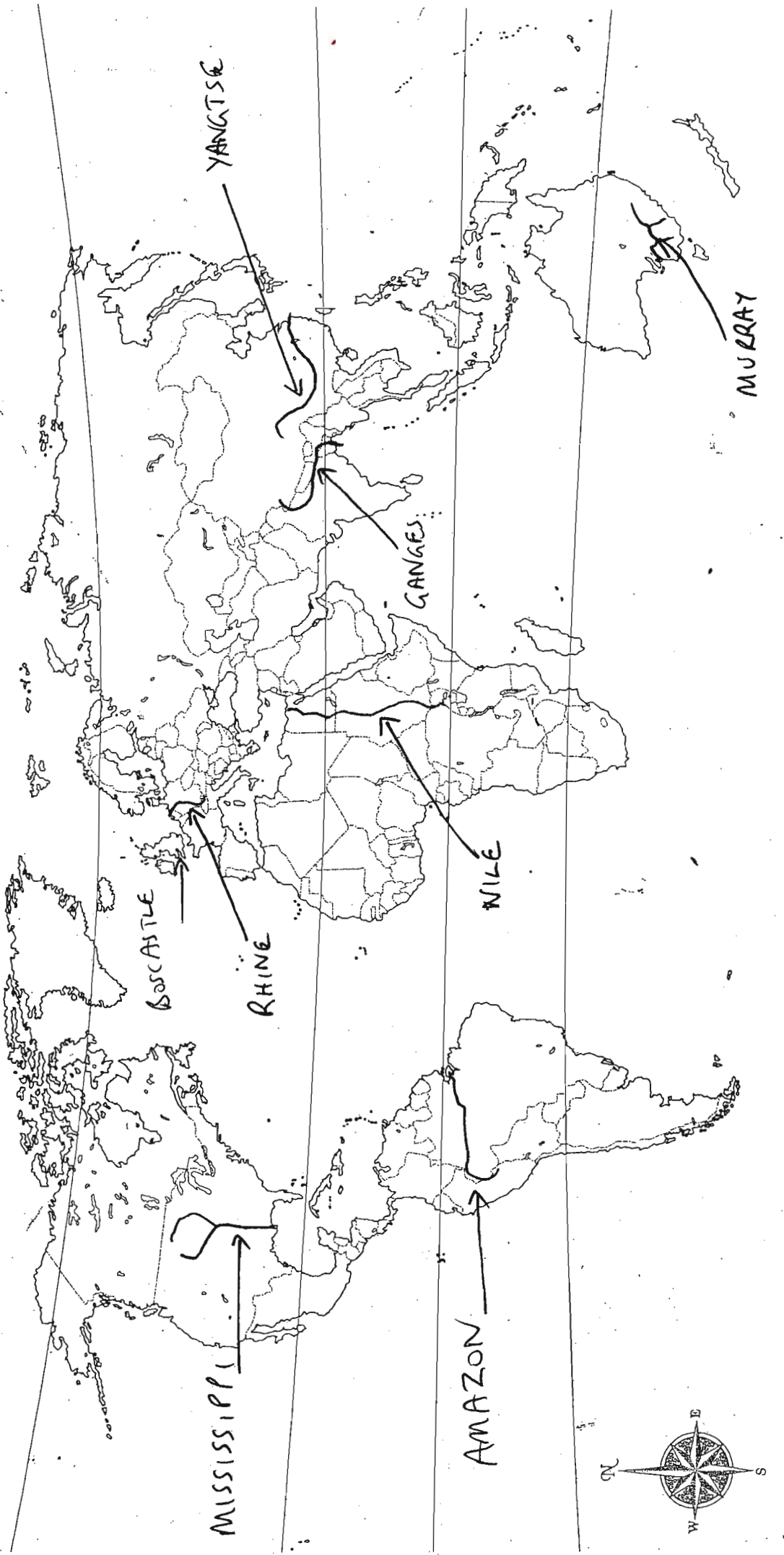
<b>Case Study</b>	<b>Flood: Boscastle, August 16th 2004</b>
<p><b>Causes</b></p> <ul style="list-style-type: none"> <li>• 180mm of rain fell in the storm, 70mm fell in one hour</li> </ul> <p>All these increased <u>runoff</u></p> <ul style="list-style-type: none"> <li>• V-shaped valley with no floodplain</li> <li>• The rock is impermeable</li> <li>• The soil is clay, also impermeable</li> <li>• The ground was already saturated from earlier rain</li> <li>• New (impermeable) manmade roads and buildings</li> </ul>	
<p><b>Effects</b></p> <p>Short term</p> <ul style="list-style-type: none"> <li>• Emergency service arrived very quickly. 150 people helicoptered out. 7 helicopters used.</li> <li>• Roads blocked</li> <li>• 50-60 cars washed away</li> <li>• Old-fashioned drainage system broke</li> <li>• 8 people injured; some had hypothermia</li> <li>• Houses damaged; people had to go to emergency accommodation</li> <li>• Museum of Witchcraft badly damaged</li> <li>• £15 million insurance costs</li> </ul> <p>Long term</p> <ul style="list-style-type: none"> <li>• Many houses and possessions lost</li> <li>• Tourist industry affected. Jobs lost</li> </ul>	
<p><b>Prevention</b></p> <ul style="list-style-type: none"> <li>• £4.5 million spent on flood defences</li> <li>• River has been widened and deepened</li> <li>• Car park raised.</li> <li>• Bridge is going to be moved so it does not act like a dam</li> <li>• Clearing of trees further up the valley so they do not fall into the river when it floods causing blockages</li> <li>• New storm drain pumping system and new overflow culvert built</li> <li>• Emergency service practising what to do</li> <li>• Informing people what to do if another flood happens</li> <li>• Better prediction of coming storms</li> </ul>	

# CASE STUDY: BOSCASTLE.

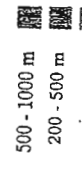
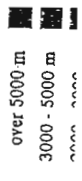


# CASE STUDY: BOSCASTLE AND

## OTHER RIVERS LIABE TO FLOOD



Key:



River  
Lake