

**2016 specification**  
first exams in 2018

# **GCSE OCR B**

## **Case Studies with Exam Prep**

### **Global Hazards: Weather**

**Tropical Storm Chedza, Madagascar (2015)**

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## Teacher's Introduction

This resource has been developed to provide case studies and exam preparation material to support the GCSE OCR B specification (J384) **Topic 1: Global Hazards: Weather**.

This detailed case study is on **Tropical Storm Chedza, Madagascar (2015)** representing a **tropical storm event**.

The case study includes a main content section which can be used as part of a lesson plan or distributed to students for self-guided research; a selection of ICT interactive links to further students' research around each topic and a set of Springboard Images and discussion questions (also available as a PPT file accessible by digital download) which makes a fantastic starter activity.

*A webpage containing all the links listed in this resource is conveniently provided on ZigZag Education's website at **zzed.uk/8844***

*You may find this helpful for accessing the websites rather than typing in each URL.*

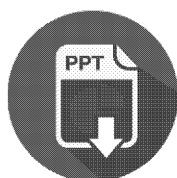


The exam preparation section which follows the case study contains a summary table, bringing together all of the key facts and figures relating to the case study; rapid-fire revision questions (with answers) to help recall and retention of the main points; and an exam-style question and mark scheme, written in the style of the OCR B sample material, so that students can practice answering questions relating to case studies and applying relevant knowledge in their answers.

The resource may be used as a source of reference for the required case studies for individual study, or for group work leading to discussion or debate. Subheadings in the information sections are designed to enable tabulated comparisons of social, economic and environmental impacts.

Other detailed case studies are available for this topic area representing contrasting natural weather hazard events arising from extreme weather conditions (tropical storms, flash flooding, heatwaves, and drought) in the UK and globally:

- Hurricane Sandy, USA (2012)
- Flooding, Morpeth, UK (2008)
- Flooding, Texas, USA (2015)
- Heat wave, UK (2015)
- Heat wave, Pakistan (2015)
- Drought, UK, (2004–2006)
- Drought, Brazil (2014–2016)



**A PowerPoint presentation containing the Springboard Images starter activity to accompany this resource is available as a free digital download. Just register for free updates using the link below to download all available content for your school or purchasing site.**

November 2018

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## Part 1: Case Study

### Acronyms and Useful Terms

CRM	Malagasy Red Cross Society
HDI	Human Development Index
ITCZ	Intertropical Convergence Zone
NDRT	National Disaster Response Team
NGO	Non-Governmental Organisation
PURIRV	Emergency Infrastructure Preservation and Vulnerability Reduction



### Content

#### Introduction and Overview

Tropical storm Chedza formed from the ITCZ (Intertropical Convergence Zone) near Mozambique and intensified as it moved over the ocean towards Madagascar and Réunion. The other affected countries were Malawi and Zimbabwe. The regions had witnessed heavy rain prior to the storm, which meant that the heavy rain associated with the storm exacerbated flood events – rivers in Madagascar were at a level in excess of their normal heights. Flooding from Chedza was further worsened by the arrival of another storm, Fundi, in early February, which tracked just off Madagascar's south-western tip. The floodwaters associated with Chedza were the highest seen since 1959, 55 years prior.

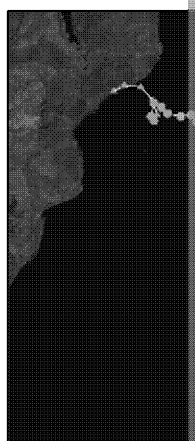


Figure 1: The

Although the wind speed wasn't high enough to be classified as a hurricane on the Saffir–Simpson hurricane wind scale (falling about 10 mph short of the 74 mph hurricane classification – maximum speed (10-minute sustained) was 65 mph), the storm was classified as a tropical storm and a severe tropical storm on the SW10 scale.

Even so, Madagascar experienced \$40 million in damages, and 80 deaths. Madagascar is a developing country, scoring low on the Human Development Index (HDI) (in 2014, Madagascar was ranked 154 of 188 countries), with a population living in poverty – the poverty headcount ratio at national poverty

#### Timeline of Events

- **9th January** – monsoon trough thunderstorm formed off the east coast of Mozambique. Moved east-south-east, bringing low pressure.
- **14th January** – classified as a 'zone of disturbance' by the French on Réunion, an island to the east of Madagascar. Classified as 'Tropical Depression 06' – the sixth of the season.
- **16th January** – classified as Tropical Storm Chedza as it approached Madagascar, making landfall (between Morondava and Belo sur Mer). Wind speeds (10-minute) were sustained at 65 mph. Over the next 24 hours, the storm weakened and was classified as a tropical storm.
- **17th January** – Chedza reached Madagascar's south-western tip. Re-intensified into a tropical storm and re-classified as a severe tropical storm.
- **18th January** – the storm began to dissipate.
- **19th January onwards** – Chedza reached its peak intensity and was classified as a post-tropical cyclone.
- **22nd January** – Chedza finally dissipated.

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around 90% live below the poverty line. Flooding is not uncommon in Madagascar as the climate causes a period of high rainfall each year. Houses are often poorly

### Preparation

Madagascar was already experiencing poor, seasonal weather prior to the storm. It was activated by the CRM – the Malagasy Red Cross Society – which helped people prepare for flooding would result from the storm. Warnings were also issued by media (radio, Internet and newspapers), and additionally text messages and social media.

- During the storm and immediately after, the National Disaster Preparedness Team (NDRT) was activated, and assessed the damage to the area.
- 81 volunteers were trained in building shelters.
- Four water treatment units were set up.

### Primary Effects

#### Social

- Approximately 100,930 people were affected by the storm.
- 54,795 people were displaced, especially in Vatovavy-Fitovinany (people began to return home at the end of January).
- 4,430 houses destroyed.
- 3,442 houses flooded.
- In Madagascar's capital city, Antananarivo, large portions of the city were flooded. The city is prone to annual flooding, because two-thirds of it has been built on the flood plain, including some illegal settlements. Many of the city's residents who live in the flood plain are among the poorest residents of the city. During the storm, the pump which controls the city's water level by removing floodwater was damaged.
- Almost 1,000 schools were damaged, which disrupted the education of 48,000 students.
- Many water sources were damaged (some sources cite approximately 100), and several were contaminated by floodwater.

#### Economic

- The President stated that the flooding had significantly damaged vital infrastructure – therefore, there was a repair plan associated with the rebuilding. The plan included 42 roads, 12 bridges, and one dam.
- Much land was flooded, and, therefore, 9,922 ha of paddy fields were damaged – locals tried to salvage the rice.
- 1,226 cows were missing after the storm.
- Food security was, therefore, decreased later in the year, in a country which is relatively insecure.
- Eight hospitals and 44 health centres were damaged.

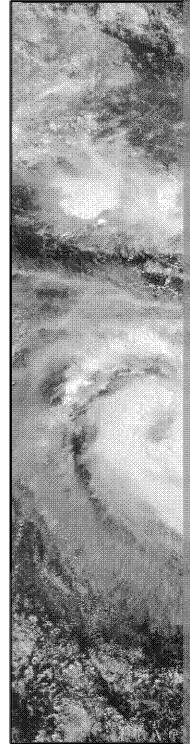


Figure 2: Chedza

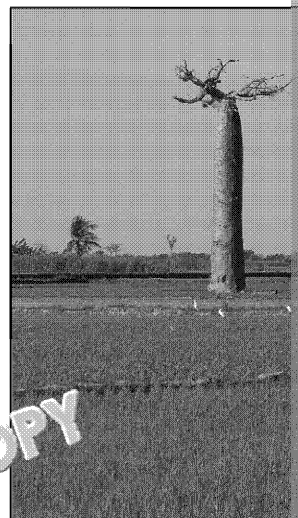


Figure 3: Rice fields around

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- Government buildings were damaged.

#### Environmental

1. Land was flooded, and rivers were 3–4 metres above their normal levels.

#### Secondary Effects

##### Social

2. The deaths in Madagascar were caused by landslides (50 landslides in total).

##### Economic

3. Roads were damaged by landslides, and, therefore, needed to be restored and cleaned.

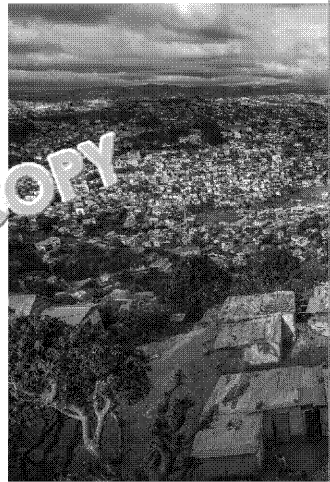


Figure 4: Madagascar's capital as a large proportion

#### Immediate Responses

4. The Madagascan Government immediately provided \$1.3 million and shelters for 20,000 people.
5. The government also began to clear the damage, and ordered flags to fly at half-mast.
6. Search and rescue operations were initiated.
7. Madagascar's National Social Insurance Fund provided food (e.g. rice), blankets and candles, and hygiene items such as soap.
8. It was essential to assess the level of damage, to enable appropriate distribution of aid.
9. International assistance was not requested until 20 January – almost two weeks later.
10. Japan sent items including water purifiers and tents.
11. Other agencies, such as NGOs (Non-governmental Organisations) and the Red Cross and UNICEF provided food, cooking pots, cutlery and crockery, shelter kits, mosquito nets and hygiene kits.
12. The World Bank provided \$40,000 for 'cash for work' activities, via the Public Infrastructure Preservation and Vulnerability Reduction Project). The project aimed to restore infrastructure and to provide local people with an income. Across the country, 100,000 households were involved, with each person working for 20 days, for food and shelter.
13. The European Union provided financial assistance. The €3 million was distributed between Madagascar, Malawi and Mozambique. Potential partners' responsibilities to distribute the aid, for use in shelters, hospitals, repairs, the reduction in unemployment and education and livelihood rehabilitation.
14. Medium- and long-term needs were assessed by Food Security and Nutrition

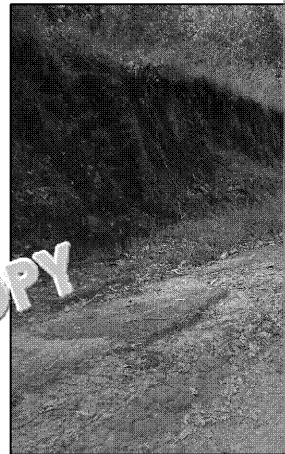


Figure 5: A road in central Madagascar collapsed

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## Long-term Responses

1. The Malagasy Government called on the international community for preparedness measures.
2. It was important to ensure that buildings were watertight and windproof for the next rainy season (the following November).
3. On 6<sup>th</sup> March, the government set up one main camp for displaced residents in Antananarivo, to house 24,000 people for three months. After this time, those who couldn't return home were resettled.

## Effectiveness of Preparation

- The preparation did not allow for some prior warning to the people of Madagascar, but it did allow the media and text messages sent to residents.
- However, despite the early indicators of poor weather it was NGOs rather than the government that attempted to prepare the country for the coming storm.
- The small number of trained volunteers compared to the high number of people affected also indicates that they did not efficiently predict the scale of the disaster.

## Effectiveness of Responses

1. Madagascar couldn't cope with the effects of the storm alone, and, therefore, it relied on the international community – with a considerable delay.
2. The government's stockpiles of supplies and equipment were quickly depleted, meaning that the government had limited resources for future storms.
3. Land for use as shelters was sometimes difficult to find, because some landowners were reluctant to allow people access in urban areas.
4. On 13<sup>th</sup> February, it was reported that 80,000 people were still affected, and half of the 40,000 people were still in evacuation centres.
5. Planning for the new evacuation camp which opened in March was criticised because there was no registration system, and the transfer of people was informal.
6. Remote communities had still not been reached in early February.
7. Some people didn't want to evacuate – because they would be away from their jobs and children's schooling.
8. Men stayed at home to protect their houses from crime, meaning that evacuation centres were usually filled with women.
9. A state of national disaster was not declared until 27<sup>th</sup> February.

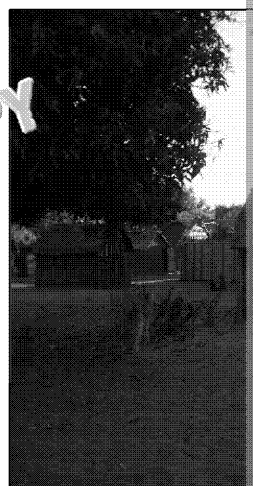


Figure 6: Traditional wooden house, and, therefore, vulnerable to flooding.

## Conclusion

Tropical storm Chedza caused major flooding in some regions in Madagascar, with water levels for 55 years. Madagascar was experiencing its wet season; storms being frequent increased the flood risk. The winds caused the fatalities rather than the delay, the impact on the community was called upon, and provided a plethora of support.

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## Fact Table

Number of deaths:
Cost of damages:
Rank on the HDI:
Number of people affected by the storm:
Number of people displaced:
Number of buildings destroyed:
Number of houses flooded:
Number of schools affected (approx.):
Number of students affected:
Area of paddy fields flooded:
Number of cows lost:
Number of hospitals damaged:
Number of landslides:
Number of shelter spaces established:
Amount released immediately by the government:
Amount provided by World Bank for 'cash for work':
Number of families resettled:

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## ICT Interactive Page


Rather than type out these web

### Videos

The track of Chedza:


 <https://www.youtube.com/watch?v=lgwG63Itl4>

Footage of Chedza's path:


 <https://www.youtube.com/watch?v=N0ESeu1t9mg> (start from 1m 15s)

### News Stories


Landfall of Chedza:

 <https://www.washingtonpost.com/news/capital-weather-gang/wp/2015/11/20/up-in-the-southern-indian-ocean-one-particularly-intense-images/>

International assistance requested:

 <http://www.reuters.com/article/us-madagascar-aid-idUSKBN0L11UP>

Concerns over the spread of bubonic plague due to displaced rats:

 <http://www.nydailynews.com/news/world/tropical-storms-fuel-concerns-over-bubonic-plague-article-1.2098953>

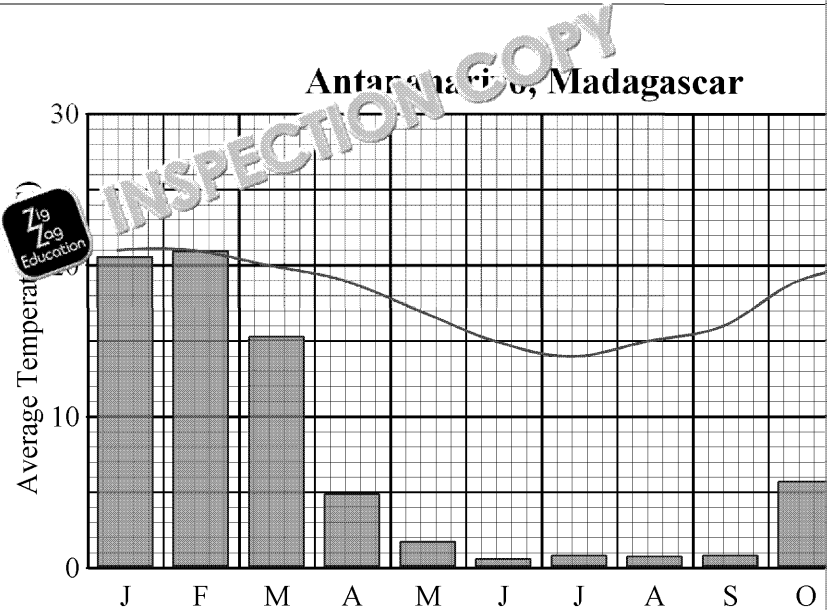
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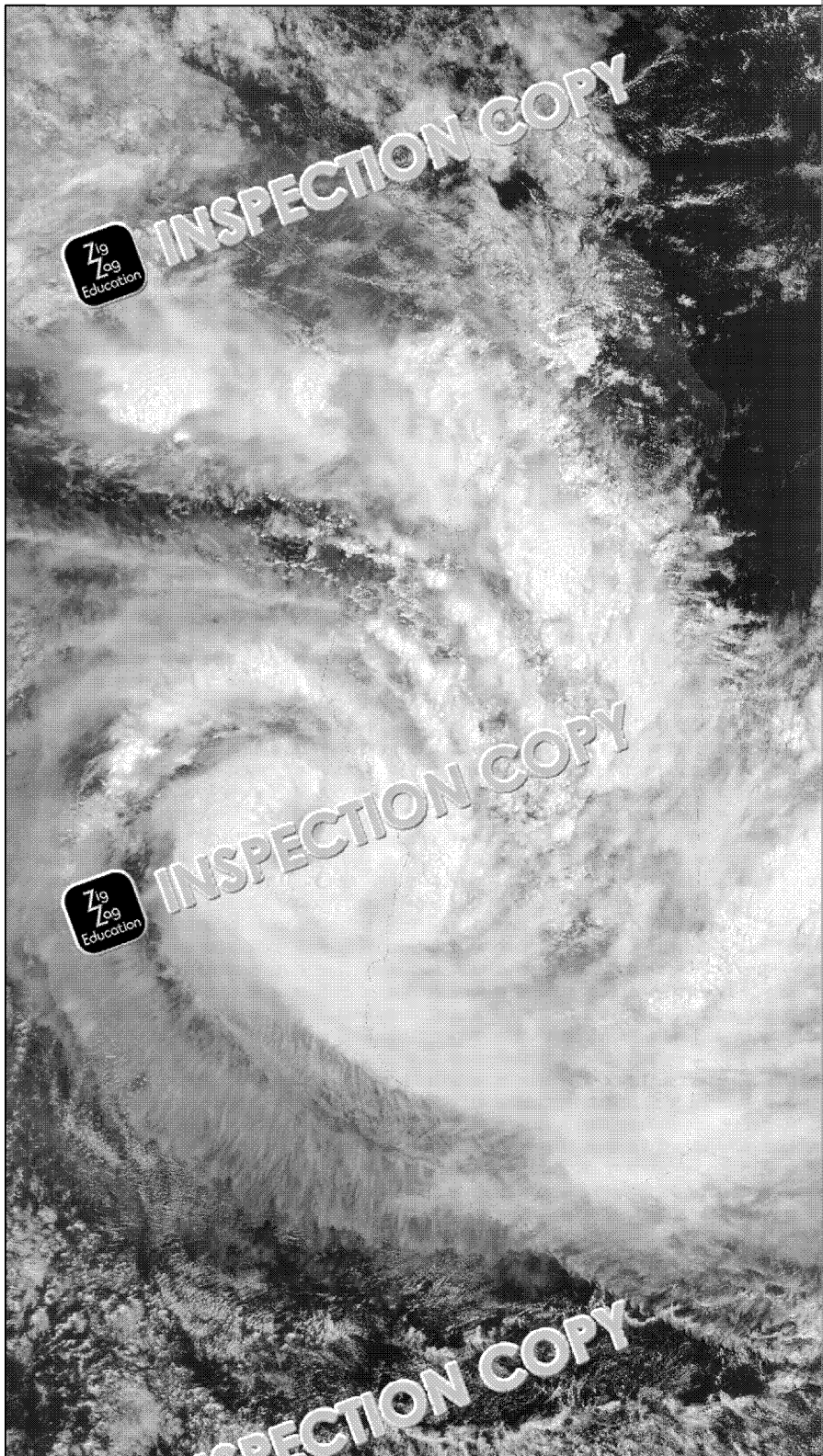
## Springboard 1



1. Do you think that the residents of Antananarivo are used to flooding? Explain your knowledge from the case study.
2. Where do you think that the majority of aid should be set up – in urban or rural areas? Explain why! As a whole, Madagascar has an urban population of just 10% of the country's population.
3. How do you think that local people could prepare for a tropical storm?

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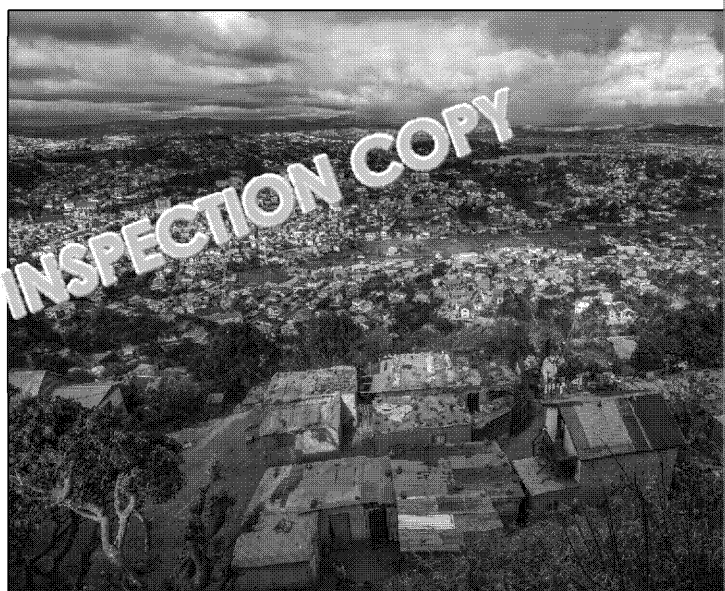
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1. Comment on the size of the storm.
2. Describe the likely conditions on the ground.
3. Discuss how and why the intensity of the storm will change as the storm moves over land.



### Springboard 3

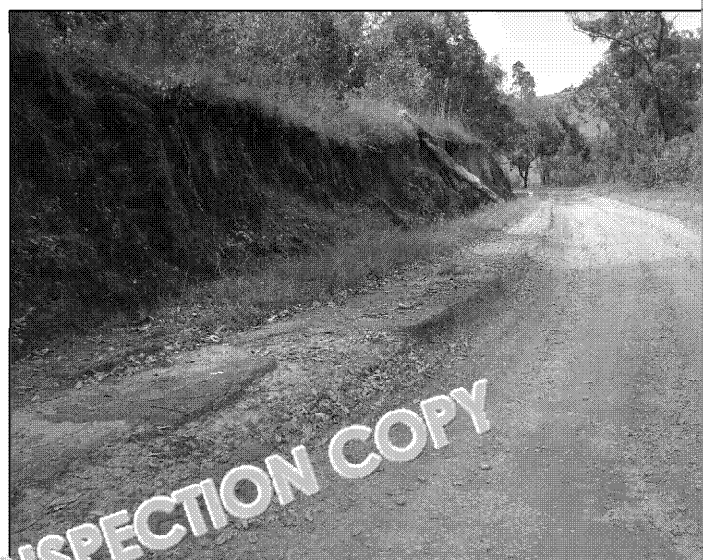


*Antananarivo – Madagascar's capital city.*

1. Describe the city's topography (the shape/slope of the land), and the height of the city. What can be seen in the background?
2. How could the aspects that you have described in question 1 increase the risk of flooding or flood damage?
3. Why do you think people in this city were sometimes reluctant to move?



### Springboard 4



1. What do you think was the largest cause of deaths from tropical storm Chedza?
2. Suggest how transport could have been affected by Chedza – why is transport vulnerable?
3. How could the recovery efforts have been more successful following Chedza?

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## Springboard Suggested Answers

### Springboard 1

1	<ul style="list-style-type: none"> <li>The graph shows that rainfall is highly seasonal. There is a distinct wet season from December to March. December has the highest rainfall at over 300 mm.</li> <li>Therefore, unless the ground can absorb all of this water, infiltration is inevitable.</li> <li>When it rains, storm water has to be pumped out of the city.</li> <li>So know that two-thirds of the city is built on the floodplain.</li> <li>Flooding is an annual event in Antananarivo.</li> </ul>
2	<ul style="list-style-type: none"> <li>Allow the students to discuss this one. For example, students might say that the city should receive more aid due to the higher population density, or argue that the city should receive aid after a storm, and, having the greatest population, should receive far more aid.</li> </ul>
3	<ul style="list-style-type: none"> <li>Ensure that they have sufficient food, water, supplies, shelter, and hygiene.</li> <li>Prepare their houses to withstand the storm.</li> <li>Evacuate to camps/centres.</li> <li>Any other valid suggestion.</li> </ul>

### Springboard 2

1	<ul style="list-style-type: none"> <li>The storm and its rain bands are very large – the whole of Madagascar is within the storm's path. Madagascar is actually a very large island at 587,000 km<sup>2</sup>, the size of the UK. Madagascar only looks small because of the way that the island is oriented, with its size nearer the poles.</li> </ul>
2	<ul style="list-style-type: none"> <li>High winds (but not hurricane force – less than 74 mph), with intense rain.</li> </ul>
3	<ul style="list-style-type: none"> <li>Over land, the storm's energy decreases because their energy source (warm water) is depleted. Friction is also increased by the land surface.</li> </ul>

### Springboard 3

1	<ol style="list-style-type: none"> <li>While areas on the periphery of the photograph are hilly, the centre of the city is relatively flat, suggesting that it is located on a floodplain.</li> <li>Houses are poorly built, with corrugated metal roofs, held down by heavy concrete blocks, giving the appearance that they could be informal houses, lacking appropriate construction standards.</li> <li>In the background, a river or one of the cities' lakes can be seen.</li> </ol>
2	<ol style="list-style-type: none"> <li>If the flat land is built on a floodplain, then flooding is likely to be a regular occurrence. The grass could indicate the worst-affected areas, where there are fewer houses. The hills in the background are likely to channel water into the drainage basin.</li> <li>The houses in the foreground, being poorly constructed, are likely to be damaged by run-off and landslides from the hills. The poor construction is likely to be a result of the lack of building standards.</li> <li>The lake or river in the background is likely to expand in size, overtopping its banks, especially likely if the pumps for storm water stop working due to flooding.</li> </ol>
3	<ol style="list-style-type: none"> <li>Many of the people are likely to be staying in temporary accommodation, or have fled the city. Fear of lost jobs, income or education by moving away from home.</li> </ol>

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## Springboard 4

1	<ul style="list-style-type: none"><li>• Landslides, caused by the flooding and saturated soil.</li></ul>
2	<ul style="list-style-type: none"><li>• Landslides damaged and cut off roads, making it harder for supplies to reach personnel to get to their destination.</li><li>• This road is particularly vulnerable because it doesn't have a paved surface and can be eroded by floodwater. In addition, there is a deep mud bank on the side of the road that can easily collapse when saturated, blocking the road.</li></ul>
3	<ul style="list-style-type: none"><li>• International assistance could have been requested sooner.</li><li>• Government stockpiles of food and supplies could have been greater.</li><li>• Local people in urban areas could have been more supportive by allowing access to the road.</li></ul>



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## Part 2: Exam Preparation

### Summary



#### Tropical Storm Chedza, Madagascar

Question	
Where were the initial origins of tropical storm Chedza?	Thunderstorms near
Which countries were affected?	Madagascar, Mozambique
When was Chedza first classified as a tropical storm?	16 <sup>th</sup> January
When did Chedza make landfall?	16 <sup>th</sup> January
What was the highest 10-minute sustained wind speed?	65 mph
When did Chedza finally dissipate?	22 <sup>nd</sup> January
What was the financial damage caused by Chedza?	\$40 million
How many deaths were caused by Chedza?	80
How were these deaths caused?	Landslides
What were 81 volunteers trained in?	Shelter building
How was the public warned about the storm?	The media (TV, radio, text messages and social media)
How many people were affected by the storm?	100,930
Which region was most affected?	Vatovavy-Fitovinany
How much of Antananarivo is built on a floodplain?	Two-thirds
How many students were affected?	48,000
How many roads were damaged?	42
How was transport affected?	Six bridges were destroyed
Name an important crop which was damaged.	Rice
How many cows were missing?	1,226
How many health centres were damaged?	44
How high were rivers above their normal levels?	3–4 metres
How much money did the government initially provide?	\$1.3 million
How many shelter spaces did the government provide?	20,000
When was international assistance requested?	28 <sup>th</sup> January
How much money did the World Bank provide for 'cash for work'?	\$40,000
How much money did the European Union provide?	€3 million
Was this money only provided to Madagascar?	No, the money was shared with Mozambique too.
When would the next rainy season begin?	The following November
When did the government set up a camp for displaced residents in the capital city?	6 <sup>th</sup> March
How many people were accommodated?	24,000 for three months
What happened after three months?	The remaining hundred people were moved to other locations
On 13 <sup>th</sup> February, how many people were still affected?	80,000
On the same date, how many people were still living in evacuation centres?	Approximately 20,000

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## Quick-fire Questions

1	What is the name of the 'meteorological equator' that formed tropical storm Chedza?	
2	On what day was Chedza classified as a tropical storm AND made landfall on Madagascar?	
3	Where did Chedza make landfall in Madagascar?	
4	Which humanitarian network enacted a contingency plan?	
5	Describe the social issues associated with the storm.	
6	How were water sources polluted?	
7	Describe the infrastructure to transport.	
8	Describe the damage to agriculture.	
9	How was healthcare affected?	
10	Describe the types of aid provided.	
11	Describe the World Bank's 'cash for work' scheme.	
12	Why did mostly women and children evacuate rather than men as well?	

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## Quick-fire Answers

1	What is the name of the 'inter-tropical equator' that formed tropical storm Chedza?	<i>The ITCZ (Inter-tropical Convergence Zone)</i>
2	On what day was Chedza classified as a tropical storm AND made landfall in Madagascar?	<i>16<sup>th</sup> January</i>
3	Where did Chedza make landfall in Madagascar?	<i>Between Moroni and Nosy Be</i>
4	Which humanitarian network enacted a contingency plan?	<i>The Malagasy Red Cross</i>
5	Describe the social issues associated with the storm.	<i>80 people died from the storm, 7,500 houses were destroyed</i>
6	How were water sources polluted?	<i>Sources were contaminated with bacteria.</i>
7	Describe the disruption to transport.	<i>42 roads were damaged, 100 routes were required to be closed</i>
8	Describe the damage to agriculture.	<i>Thousands of hectares of crops were destroyed, in addition, 1,226 cattle were lost</i>
9	How was healthcare affected?	<i>Eight hospitals were damaged</i>
10	Describe the types of aid provided.	<ul style="list-style-type: none"> <li>• Shelter items</li> <li>• Food, water</li> <li>• Sanitation</li> </ul>
11	Describe the World Bank's 'cash for work' scheme.	<i>The World Bank provided cash for work, which helped the storm, which was working for 10 days, working for 10 days</i>
12	Why do most women and children evacuate rather than men as well?	<i>Men often stay behind to protect their families</i>

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## Extension Questions

1. Had Madagascar been a highly developed country, suggest how the consequences might have been different.
2. Justify why there was relatively little preparation prior to the arrival of tropical storm Chedza.
3. Assess the effectiveness of the responses to tropical storm Chedza.



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## Extension Answers

1. Much higher in financial terms, because of the greater amount of infrastructure. In a developed country, because houses would be more likely to survive the storm, the damage would be less relative damage, due to the greater sequence overall. The storm would be less likely to require (as much) international assistance.
2. The country was already experiencing flooding due to high rainfall. Flooding and the storm arrived in January – during the wet season. It may also have been a common occurrence.
3. The government took a long time to reach those affected by the storm, the international community immediately asked for help, and supplies were diminished by the storm. While the organisation of the camp at Antananarivo, the remaining families were rehoused. The evacuation efforts were reduced by the people themselves – those who were not evacuated were reluctant to let people shelter on their land.

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## Exam-style Question

### Question 1

Case study – Extreme weather events in a UK and non-UK location

Evaluate the ways the responses to an extreme weather event differ between contrasting countries.

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# Level Marking

Level	Mark	Description
1	1–2	<ul style="list-style-type: none"> <li>The student evidences basic knowledge</li> <li>The student evidences limited understanding of the relationship that exist between places, environments and processes</li> <li>A limited ability to evaluate is evidenced through the application of knowledge and understanding. (AO3)</li> <li>The ideas expressed by the student are in-depth</li> <li>A named example is provided but place-specific details are missing</li> </ul>
2	3–4	<ul style="list-style-type: none"> <li>The student evidences some knowledge</li> <li>The student evidences good understanding of the relationship that exist between places, environments and processes</li> <li>A reasonable ability to evaluate is evidenced through the application of knowledge and understanding. (AO3)</li> <li>The ideas expressed by the student are in-depth</li> <li>A named example is provided with some place-specific details</li> </ul>
3	5–6	<ul style="list-style-type: none"> <li>The student evidences thorough knowledge</li> <li>The student evidences a firm understanding of the relationship that exist between places, environments and processes</li> <li>A strong ability to evaluate is evidenced through the application of knowledge and understanding. (AO3)</li> <li>Ideas expressed by the student are in-depth</li> <li>A named example and place-specific details are provided</li> </ul>

## Suggested Content:

Name of UK extreme weather event: UK heatwave 2015

Name of non-UK Extreme weather event: Tropical Storm Chedza, Madagascar

- The extreme weather events experienced in the UK and Madagascar are different due to the different climate and physical conditions in each of the two locations.
- The responses to each of the extreme weather events are very different due to the hazard itself and also due to the resources that are available to the locations.

Tropical Storm Chedza, Madagascar	
<ul style="list-style-type: none"> <li>Thousands of people needed to be provided with shelter, and so the Government immediately provided \$1.3 million and shelter for 20,000 people.</li> </ul>	<ul style="list-style-type: none"> <li>The UK population was advised to stay indoors during the heatwave and to look after themselves by drinking plenty of water, wearing hats and carrying sun cream, and to avoid going outdoors during the hottest part of the day.</li> </ul>
<ul style="list-style-type: none"> <li>Food, blankets, candles and hygiene items were provided to the people of Madagascar to ensure additional casualties did not arise in the period following the event.</li> </ul>	<ul style="list-style-type: none"> <li>It was not necessary for the UK to provide additional essential services as the UK had a good infrastructure in place to prevent people from being affected by the event.</li> </ul>
<ul style="list-style-type: none"> <li>The European Union, foreign countries and NGOs provided aid to Madagascar in the form of food, cooking equipment, shelter kits and hygiene kits.</li> </ul>	<ul style="list-style-type: none"> <li>International aid was provided to Madagascar in the form of food, cooking equipment, shelter kits and hygiene kits.</li> </ul>
<ul style="list-style-type: none"> <li>The responses to the tropical storm in Madagascar needed to have longer-running sequences; for example, a camp was set up in the capital, Antananarivo, to house 20,000 people for three months.</li> </ul>	<ul style="list-style-type: none"> <li>In response to the heatwave, the UK government coordinated and provided advice and guidance to the population.</li> </ul>

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