



# Cyclone Yasi: Experiences of Backpackers in Townsville and Cairns during Cyclone Yasi

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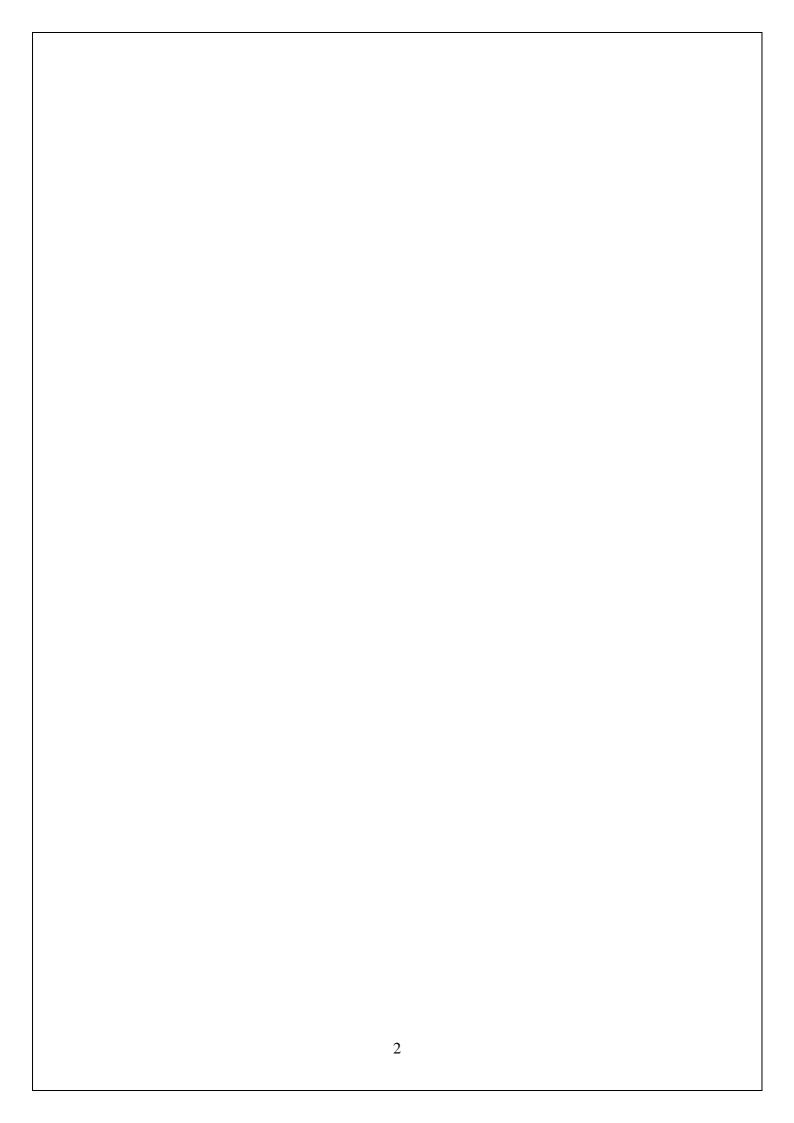
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## Centre for Disaster Studies, James Cook University









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#### **Summary**

#### **Evacuation**

- 58% of backpackers evacuated to Townsville or Cairns
- Almost 70% of people who evacuated had been told to do so, especially people interviewed in Cairns where only few took the decision themselves
- The evacuated areas were the coastline in general, Cardwell, Tully and Magnetic Island

#### **Awareness**

- Word of mouth and media (tv, radio and internet) were the main sources of general information on cyclones
- 65% of the backpackers were aware of cyclones in Australia and in the area before arrival
- A large majority had not been prepared for this kind of event and didn't really know what to do, but without knowing it, they responded correctly in preparing themselves for the cyclone: looking for a shelter, buying food and seeking information.

#### Awareness of Yasi

- People heard about cyclone Yasi quite late: 47% on Monday and 37% on Tuesday
- Word of Mouth, TV and government texts were the main sources of information on Yasi

#### Actions

- Most Backpackers felt calm at the peak of the cyclone, while as many people felt afraid as excited by the event
- Buying food, finding a shelter and ringing relatives were the main activities just before the cyclone
- Sleeping, eating and cyclone party (for those who stayed in their hostel) were the main occupations during the cyclone where there was no power loss, everyone watched tv
- 62% considered leaving NQ before Yasi but it was too expensive or too late
- 36% of people went outside during the cyclone and amongst the rest many would have gone outside if they had been able to
- Only 7% people were alone during the cyclone

#### **Impact**

- The main damage everywhere was damage to trees and small amounts of flooding
- Almost every backpacker experienced loss of power

#### **Personal impact**

- 71% of backpackers had received assistance from the staff of their shelters or official organisations: especially information and food
- Almost half of the backpackers would have changed their plans if they had known about Yasi
- Almost half of the backpackers didn't expect to come or stop during their trip in the city where they sheltered, especially Townsville where 58% stayed against their will
- Many backpackers were disappointed by the experience of the cyclone, thinking "it wasn't that bad"
- Problems after the cyclone were lack of food for almost 90% of the backpackers (noodle soup and bread seemed to have rescued a lot of people),
- Because of the loss of the telephone signal after the cyclone many people were unable to call their relatives
- An important issue was the loss of job and holiday time
- Many backpackers saw their goods robbed during the cyclone
- Right after the cyclone transport was an issue: rare and expensive for people who wanted to leave Townsville quickly

#### **Experience**

69% of backpackers hadn't experienced a cyclone before Yasi

#### Travel

- Bus is the main transport means used by Backpackers
- Plane is used only for really long journeys
- A majority of people travels with other people (friends most of the case) but the number of people travelling alone was significant

#### **Demographics**

- The 20-25 year age cohort is the main group, then 26-30 years
- A majority of backpackers are from Europe
- In most of the cases, backpackers had a good knowledge of English
- The information texts on Yasi sent by the government were useful to backpackers but tv and newspapers were the main source of information and warnings. Word of mouth was equally beneficial for every age

#### Introduction

Very heavy rain began in North Queensland before Christmas 2010, culminating in the brief declaration of cyclone Natasha that crossed the coast close to Innisfail on Christmas Day. The resulting extreme weather system moved down the Queensland coast bringing exceptionally heavy rain and flooding to most of the state throughout January 2011. During the weekend of 29<sup>th</sup> and 30<sup>th</sup> January 2011 Cyclone Anthony threatened the area between Townsville and Bowen and crossed the coast between Bowen and Ayr. As Anthony impacted the coast, Yasi was identified as a much more severe threat that followed behind. All of these events contributed to a heightened awareness of hazards amongst the population, such that people were generally well prepared for a cyclone before Yasi approached.

As the cyclone was predicted to be a category 5 system and was extremely large, over 1,000 kms across, the media gave Yasi a great deal of attention. Its estimated track on Sunday 30<sup>th</sup> predicted a crossing close to Cardwell (close to its ultimate crossing), but on Monday and Tuesday it was variously estimated to cross at locations between Cairns and Townsville. The heightened threat over an extensive area of North Queensland added to preparations and virtually total awareness in all communities. People in coastal locations were warned/ordered to evacuate inland on Tuesday and on Wednesday, although as the crossing point became clearer on Wednesday, many residents who had temporarily left beachside suburbs in Townsville and Cairns returned to their homes. Evacuation centres were opened in locations from Cairns to Townsville and many people sought shelter in centres, whether they had been told to evacuate or not. However, many people left coastal towns and cities, including flights out of Townsville and Cairns.

The approaching cyclone was classified as category 5 with destructive winds forecast for the whole coast from Cairns to Townsville. Over 400,000 people were directly impacted by Cyclone Yasi. Although it moved rapidly, it was because of its very large size that winds that ranged from gale force to cyclonic blew for 24 hours and it was still a cyclone when it crossed Julia Creek 700 kms inland. Fortunately the rain associated with the cyclone was lower than expected, although it still caused extensive flooding. The worst inundation was associated with storm surge that caused extensive destruction to beachfront property from Mission Beach to Cardwell.

Three immediate observations can be made; concerning deaths and injuries, building damage and evacuation. As in Cyclone Larry in 2006, there were no deaths (other than a tragic accident not directly caused by the cyclone) and relatively few injuries. Also similar to cyclone Larry, new houses built to cyclone standards post 1980, stood up to wind damage very well, even coping with storm surge in the beach suburbs, with most damaged and destroyed dwellings being older structures. The issue that was significantly different from many earlier cyclones was the extensive evacuation that took place. Although many people subsequently felt it was unnecessary, it was a sensible precaution given the nature of the threat. The problem in the future may be less willingness to evacuate next time, amongst beachside residents in Townsville and Cairns. A compounding problem of evacuation was a lack of assistance to evacuees, both in terms of transport and organised evacuation centres.

#### Methodology

A focus of research in the centre during the late 1990's and early 2000's was the hazard awareness and preparedness of tourists. A particular emphasis was on independent travellers, of whom backpackers are an identifiable sub group. These tourists and travellers, mostly young, travel independently of organised groups whose leaders have a duty of care and protection for their members. Backpackers come from areas outside cyclone impact zones and may be unaware of local hazards. During 2000 and 2003 students from Europe (Elke Kuehlbrandt in 2000, Wouter Hoogenraad and Ronald van Eden in 2003) joined the Centre for Disaster Studies on placement as part of their degree programs. In 2011 Astrid Vachette is with the centre for the same purpose. Two surveys were carried out in Cairns, of backpackers and backpacker accommodation providers, by Kuehlbrandt in the dry season of 2000, and by Hoogenraad and van Eden in the wet (cyclone) season of 2003.

As Vachette had recently arrived in Australia and was staying in a backpacker hostel in Townsville during the passage of Yasi, we decided to replicate the earlier backpacker studies to explore the experience of young travellers during and after a cyclone. It was also clear from media and anecdotal reports before the cyclone that extensive evacuation was occurring and that it had swept up many backpackers.

Backpackers were interviewed by questionnaire in Townsville and Cairns, during the week immediately following the cyclone. By the end of the week, many had moved on (Townsville in particular was not an ideal holiday location at that time) and it proved difficult to recruit further participants. By that time 55 backpackers had participated in the survey, randomly selected from hostels and cheap hotels in the centre of each city. The small size of the sample makes statistical analyses of limited value, and besides, all of the questions were qualitative in nature. The survey provides useful indicators of the backpacker experience of cyclone Yasi, and many of the results of the two earlier surveys have been incorporated into this report.

The survey instrument is provided in the appendix at the end of this report.

#### **Actions Taken by Respondents**

Actions and behaviour are influenced by emotions and feelings.

Table 1. How did you feel as the cyclone reached its peak?

Feeling at the peak of the cyclone	Ţ.	City				
	Townsville		Cairns			
	Number	%	Number	%	Number	%
calm	11	31%	4	21%	15	28%
afraid	7	19%	1	5%	8	15%
excited	6	17%	3	16%	9	16%
sleeping	5	14%	5	26%	10	18%
don't know when the peak was	4	11%	5	26%	9	16%
curious	3	8%	1	5%	4	7%
Total	36	100%	19	100%	55	100%

Backpackers were for the most part calm at the peak of the cyclone although there were as many people afraid as people excited by the event. There were widespread media and anecdotal reports of fear and psychological trauma from the experience, both in Townsville and Cairns. The backpacker experience is fairly typical of general experiences of the population in these two cities.

Table 2. What did you do on Wednesday as the cyclone approached?

Individual preparations on Wednesday before the cyclone by City

Actions on Wednesday before		Cit	y		Total	
cyclone	Townsville	Townsville Cairns				
	Number	%	Number	%	Number	%
bought food and water	11	31%	4	21%	15	27%
bought food, cigarettes/alcohol	1	3%	4	21%	5	9%
rang my relatives	1	3%	4	21%	5	9%
bought supplies and rang relatives	4	11%	2	10.5%	6	11%
looked for a shelter	5	14%	2	10.5%	7	13%
went to see the sea	6	17%	1	5.5%	7	13%
took cash and bought supplies	3	8%	0	0%	3	5%
nothing in particular	5	14%	2	10.5%	7	13%
Total	36	100%	19	100%	55	100%

Preparations were rational and within the range of advice that backpackers would receive. Preparation is also a useful activity that distracts from the tension of waiting for the storm. The main activities were buying food, finding a shelter and ringing relatives. Activities during the passage of the storm also mirror those of most of the urban community. Partying seems to have been more significant in Cairns, where the cyclone impact was less than in Townsville.

Table 3. What did you do during the night as the storm passed through?

Occupation during the storm by City

Occupation during the storm		С		Total		
	Townsville		Cairns			
	Number	%	Number	%	Number	%
sleeping	7	19%	4	21%	11	20%
eating, talking, sleeping	11	31%	5	27%	16	29%
sleeping, eating, talking, playing cards	5	14%	0	0%	5	9%
Reading, watching tv, listening to music	6	17%	1	5%	7	13%
praying	1	3%	1	5%	2	4%
cyclone party	6	17%	8	42%	14	25%
Total	36	100%	19	100%	55	100%

Sleeping, eating and being in a cyclone party, for those who stayed in their hostel, were the main occupations during the passage of the cyclone. Where there was no power loss people watched TV.

Table 4. Did you consider leaving North Queensland when you heard the cyclone warning?

People who considered leaving NQ because of Yasi by City

Considered			City	, ,	Total	
leaving NQ	Townsville		Cairns			
	Number	%	Number	%	Number	%
yes	24	67%	10	53%	34	62%
no	12	33%	9	47%	21	38%
Total	36	100%	19	100%	55	100%

A high proportion (62%) considered leaving the region when they heard about cyclone Yasi, but it was too expensive or too late by the time they considered it. The cyclone covered such an extensive area that relocation was necessary on Tuesday. By Tuesday afternoon many forms of public transport were closed for safety reasons.

Table 5. Why didn't you leave? Reason for not leaving NQ by City

Reason for not leaving		Ci	ity		Total	
	Townsville		Cairns			
	Number	%	Number	%	Number	%
too expensive	5	14%	5	26%	10	18%
too late	8	22%	2	11%	10	18%
didn't know where to go	3	9%	1	5%	4	7%
didn't want to leave friends	3	9%	1	5%	4	7%
lack of transport facilities	5	14%	1	5%	6	11%
didn't want to leave	12	33%	9	48%	21	39%
Total	36	100%	19	100%	55	100%

Table 6. During the evening and night of Wednesday into Thursday where did you shelter?

Place of shelter during the storm by City

Shelter during the storm		City			Tota	Total	
	Townsville		Cair	Cairns			
	Number	%	Number	%	Number	%	
In a safe room of my hostel	17	47%	7	37%	24	44%	
Commonwealth shelter	5	14%	0	0%	5	9%	
Parking shelter on Flinders St.	6	17%	0	0%	6	11%	
Primary School	0	0%	8	42%	8	14.5%	
Stockland shelter	0	0%	2	11%	2	4%	
with friends	2	6%	1	5%	3	5.5%	
with strangers	3	8%	1	5%	4	7%	
holiday Inn	2	6%	0	0%	2	4%	
Civic guest house	1	3%	0	0%	1	2%	
Total	36	100%	19	100%	55	100%	

Shelters during the storm were city specific. Many people remained at the hostels where they had checked in, but others had been evacuated from coastal and surge prone areas and had probably made no contacts in the city. A number of shelters opened up during Wednesday but information was piecemeal and many of the centres were ill-prepared for the large influx of people.

Table 7. Did you go outside during the evening or night while the strong winds blew?

Went outside during the strong winds by Age

Age	Wer	nt outside duri	winds	Total		
	yes			no		
	Number	%	Number	%	Number	%
less than 20	1	5.0%	2	5.7%	3	5.5%
between 20 and 25	7	35.0%	16	45.7%	23	41.8%
between 26 and 30	8	40.0%	10	28.6%	18	32.7%
between 30 and 40	2	10.0%	4	11.4%	6	10.9%
more than 40	2	10.0%	3	8.6%	5	9.1%
Total	20	100.0%	35	100.0%	55	100.0%

Table 7 indicates that 36% of the respondents went outside during the cyclone. Amongst the other 64% many were inside shelters and would have gone outside, but were not allowed to where police were present in the shelters that they had gone to. The breakdown by age groups seems to suggest that the 20 to 25 year olds were not particularly risk-takers. This is an interesting behaviour, but the sample was quite small and for most of this age group this was their first cyclone experience. It needs to be noted that in most cyclones, many TV reporters are filmed outside against a backdrop of the storm. This gives a message that it is safe to do so -- part of the package of unsafe behaviours that are perpetrated by the less responsible media.

Table 8. Did you go outside during the evening or night while the strong winds blew?

Went outside during the strong winds by City

Went outside		City					
during the strong	Townsville		Cairns				
winds	Number	%	Number	%	Number	%	
yes	13	36%	7	37%	20	36%	
no	23	64%	12	63%	35	64%	
Total	36	100%	19	100%	55	100%	

Between the two cities there is no difference in the behaviour of venturing outside during the storm. It was observed that there were significant numbers of people on the streets of Townsville during Yasi's passage.

Table 9. Were you with other people while the storm passed?

With other people during the storm by City

With other people during		City		Total		
the storm	Townsville		Cairns			
	Number %		Number	%	Number	%
yes	32	89%	19	100%	51	93%
no	4	11%	0	0%	4	7%
Total	36	100%	19	100%	55	100%

Only 7% of the respondents were alone during the cyclone. This is rational and desirable behaviour during a natural hazard. There was no significant difference between locations.

Table 10. Actual city or town in which located during Yasi? Place stayed during Yasi by City

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Place stayed in		City		Total						
Yasi	Townsville		Cairns							
	Number	umber %		%	Number	%				
Townsville	35	97%	0	0%	35	64%				
Cairns	0	0%	18	95%	18	32%				
Ingham	1	3%	0	0%	1	2%				
Airlie Beach	0	0%	1	5%	1	2%				
Total	36	100%	19	100%	55	100%				

#### Arrival and residence

Most backpackers had been in North Queensland for a relatively short period, although Cairns demonstrates a longer residence than Townsville.

Table 11. What date did you first arrive in North Queensland? Date arrived in NQ by City

Date arrived In NQ		Ci		Total		
	Townsville		Cai	Cairns		
	Number	%	Number	%	Number	%
less than week	2	6%	2	10.5%	4	7%
1 week to 1 month	16	44%	4	21%	20	37%
1 month to 3 months	12	33%	11	58%	23	42%
3 to 6 months	4	11%	0	0 %	4	7%
More than 6 months	2	6%	2	10.5%	4	7%
Total	36	100%	19	100%	55	100%

Table 12. Location: Place of interview by City

Place of interview			ity		Total	
	Townsville		Ca	irns		
	Number	%	Number	%	Number	%
Civic Guest House	19	53%	0	0%	19	35%
Reef Lodge Budget Accommodation	2	6%	0	0%	2	4%
Adventurers Backpackers Resorts	4	11%	0	0%	4	7%
Holiday Inn	5	14%	0	0%	5	9%
Beach	6	17%	2	10%	8	14.5%
Bohemia Central	0	0%	6	32%	6	11%
Woodduck Backpackers	0	0%	4	21%	4	7%
Pacific International	0	0%	4	21%	4	7%
Castaways Backpackers	0	0%	3	16%	3	5.5%
Total	36	100%	19	100%	55	10%

Backpackers were interviewed at nine accommodation providers in the two cities plus 8 (14%) who were interviewed at the beach -- the Strand and the Esplanade.

#### **Awareness**

Table 13. Were you aware that this area is affected by tropical cyclones?

Aware of cyclones by Gender

Aware of		Gen	Total			
cyclones	M	ale	Fer	nale		
	Number	%	Number	%	Number	%
yes	27	79%	9	43%	36	65%
no	7	21%	12	57%	19	35%
Total	34	100%	21	100%	55	100%

Most of the backpackers (65%) were aware of cyclones in Australia and in the area of North Queensland before coming here. In this survey males seemed to be more aware of cyclones in North Queensland than females, but there are important differences based on age, especially between the early and late 20s cohorts. Awareness is fairly high, but the gender difference is significant. The 2003 study showed awareness of cyclones by 74% of respondents.

Table 14. Were you aware that this area is affected by tropical cyclones?

Awareness of cyclones area by Age

11 wareness of cyclones area by 11ge										
Age group		Aware of	cyclones		Total					
	y	yes		no						
	Number	Number %		%	Number	%				
less than 20	3	8.3%	0	.0%	3	5.5%				
between 20 and 25	12	33.3%	11	57.9%	23	41.8%				
between 26 and 30	15	41.7%	3	15.8%	18	32.7%				
between 30 and 40	3	8.3%	3	15.8%	6	10.9%				
more than 40	3	8.3%	2	10.5%	5	9.1%				
Total	36	100.0%	19	100.0%	55	100.0%				

Table 15. Relationship between age groups and cyclone awareness

		Age groups							
		0-1	0-19 20-25 26-30			31-40			
		No.	%	No.	%	No.	%	No.	%
General	Yes	10	67	67	71	29	76	10	100
awareness	No	5	33	28	29	9	24		
Affected areas	correct / partially correct	7	47	50	52	28	74	9	90
	incorrect	1	7	3	3	1	3		
	Do not know	7	47	42	44	9	24	1	10
Cyclone season	correct / partially correct	6	40	49	52	25	66	7	70
	incorrect			6	6				
	Do not know	9	60	40	42	13	34	3	30

Source: Kuehlbrandt 2000

Table 16. Awareness of cyclones in Australia

	Frequency	Percent
Yes	163	74.1
No	57	25.9
Total	220	100.0

Source: Hoogenraad and van Eden 2003

The two studies from the early 2000's showed relatively high levels of cyclone awareness.

Table 17. Knowledge of cyclone affected areas

	Frequency	Percent
correct	6	4
partially	88	56
correct		
incorrect	5	3
Don't	59	37
know		

Source: Kuehlbrandt 2000

Table 18. Knowledge about cyclone-affected areas

	Number	Percent
Correct	72	32.7
Partially correct	57	25.9
Incorrect	5	2.3
Don't know	29	13.2
Total	163	74.1
Unaware of cyclones	57	25.9
in Australia		
Total	220	100.0

Source: Hoogenraad and van Eden 2003

The surveys of 2000 and 2003 asked respondents questions about their knowledge of cyclones and ranked them according to the accuracy of the responses. Tables 17 and 18 show a high proportion of partially correct knowledge or don't know responses, suggesting somewhat poor knowledge, even though awareness was quite high. The overall impression is of young visitors who come with limited knowledge, visiting regardless of cyclone risk.

Table 19. Were you aware that this area is affected by tropical cyclones? Awareness of cyclones in the area by City

Tiwareness of cyclones in the area by City										
Aware of		City								
cyclones	Towns	ville	Cairn	Cairns						
	Number	%	Number	%	Number	%				
yes	24	67%	12	63%	36	65%				
no	12	33%	7	37%	19	35%				
Total	36	100%	19	100%	55	100%				

Between the cities there is a relatively little variability in terms of awareness.

Table 20. Planned trip with cyclone season in mind

	Frequency	Percent
Yes	1	.5
No	219	99.5
Total	220	100.0

Source: Hoogenraad and van Eden 2003

Table 21. Where did you obtain information about cyclones generally, and how to be

prepared? Source of general information on cyclones by City

Source of general information on	City				Total	
cyclones	Townsville		Cairns			
	Number % N		Number	%	Number	%
School	4	11%	6	32%	10	18%
TV, internet, radio	11	31%	5	26%	16	29%
Word of Mouth	6	17%	3	16%	9	16%
a little bit everywhere	15	42%	5	26%	20	37%
Total	36	100%	19	100%	55	100%

Table 22. Source of information about cyclones

	Frequency	Percent
Word of mouth	31	14.1
TV	23	10.5
Other	6	2.7
Internet	2	.9
Brochures	2	.9
Radio	2	.9
Pamphlets	1	.5
Total	67	30.5
No information found about	153	69.5
cyclones during trip		
Total	220	100.0

Source: Hoogenraad and van Eden 2003

There is a contrast between tables 21 and 22. The 2003 survey was carried out in the cyclone season but without any occurrence of an active cyclone at that time. Thus the dominant response indicated a lack of interest as well as a lack of specific information. There is a significant contrast with the post Yasi group who had immediate information readily available and a clear need to access it. Word-of-mouth was important along with TV (table 23)

Word of mouth and media (tv, radio and internet) are the main sources of general information on cyclones – despite being from non cyclone prone regions Europeans have a good knowledge, many having learned it at school.

Table 23 gives a breakdown of countries of origin. Out of 55 respondents, 24 countries are represented. With small numbers from each country there is predictably no country specific pattern of cyclone knowledge source.

Table 23. Where did you obtain information about cyclones generally, and how to be

prepared? Source of general information on cyclones based on country of origin

Country of Source of general information on cyclones based on country of origin  Source of information on Yasi									
Country of		T	1				T		
origin	Word	TV	newspaper	Internet	government	from	a little bit	Total	
	of				text	relatives	from		
	mouth					outside	everywhere		
						NQ			
America	0	1	0	0	0	0	0	1	
American	0	0	0	0	0	0	1	1	
Argentina	1	0	0	1	0	0	0	2	
Australia	2	0	0	0	0	1	0	3	
Belgium	0	0	0	1	0	0	0	1	
Brazil	1	0	0	0	0	0	0	1	
Canada	0	0	1	0	0	0	0	1	
Czech	0	0	2	0	0	0	0	2	
Republic									
Denmark	3	0	0	0	0	0	0	3	
England	0	0	1	0	0	0	0	1	
Estonia	0	1	0	0	0	0	0	1	
France	1	2	0	1	2	0	0	6	
Germany	0	0	0	0	4	0	1	5	
Holland	0	0	0	0	1	2	0	3	
Italy	1	2	0	0	0	0	1	4	
Japan	0	1	0	0	0	0	1	2	
Lebanon	0	0	0	1	0	0	0	1	
Madagascar	0	0	0	0	0	0	1	1	
Mexico	1	0	0	0	0	0	0	1	
New	1	1	0	1	0	1	0	4	
Zealand									
Slovenia	0	0	0	0	0	0	1	1	
South	3	1	0	0	0	0	0	4	
Korea									
Spain	3	0	0	0	1	0	0	4	
Sweden	0	1	0	0	0	0	0	1	
Switzerland	0	0	0	1	0	0	0	1	
Total	17	10	4	6	8	4	6	55	

Table 24. What sort of preparations in case of cyclones had you made? Kind of preparations for cyclones by City

Kind of preparations		City			Total	
	Town	sville	Cairns			
	Number	%	Number	%	Number	%
no preparation	27	75%	10	53%	37	67%
training on what to for the house	1	3%	2	11%	3	5.5%
training on what to do to protect oneself	2	5%	1	5%	3	5.5%
training on what to do to help others	0	0%	1	5%	1	2%
general training (house, oneself, others)	6	17%	5	26%	11	20%
Total	36	100%	19	100	55	100%

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There is significant variation between the pre-cyclone 2003 study where the strongest response was to seek information, and the post-Yasi survey where two thirds stated having made no general preparations. It's interesting that in 2003 30% indicated an intention to evacuate, which became a reality for many of those interviewed after Yasi. 20% of the respondents in this study had received some kind of training on how to protect themselves, other people and property from cyclones, but a large majority had not been prepared for this kind of event and didn't really know what to do. However, without knowing it they showed the right reaction to prepare themselves for the cyclone -- looking for a shelter, buying food and seeking information.

Table 25. What to do in case of a cyclone

	Frequency	Percent
Seek information	91	41.4
Evacuate	65	29.5
Shelter	39	17.7
Stay	18	8.2
Don't know	5	2.3
Call emergency services	2	.9
Total	220	100.0

Source: Hoogenraad and van Eden 2003

The 2003 study showed that only a few people had received information on cyclones during their trip, but if they had, it had been useful, whereas most people before Yasi had received information, although many thought it wasn't really useful. The differences indicated in tables 26 and 27 are statistically significantly different, but of course, so was the experience to which the backpackers were responding at each survey

Table 26. How useful was the cyclone information you had received?

Usefulness of cyclone information by City

Usefulness of cyclone	· ·	Total				
information	Townsville		Cairns			
	Number	%	Number	%	Number	%
really useful	5	14%	5	26%	10	18%
useful	13	36%	9	48%	22	40%
not really useful	18	50%	5	26%	23	42%
Total	36	100%	19	100%	55	100%

In Hoogenraad and van Eden's 2003 study only a few people had received information on cyclones during their trip but if they had, it had been useful, whereas most people in the 2011 study had received information but many thought it wasn't really useful.

Table 27. How useful was the information about cyclones?

	Frequency	Percent			
Very	25	11.4			
Moderate	24	10.9			
Not	14	6.4			
No response	4	1.8			
Total	67	30.5			
No information about cyclones during trip	153	69.5			
Total	220	100.0			

Source: Hoogenraad and van Eden 2003

#### **Demographics**

Table 28. Age by City

Age		City				
	Towns	Townsville		Cairns		
	Number	%	Number	%	Number	%
less than 20	1	3%	2	11%	3	5%
between 20 and 25	13	36%	10	53%	23	42%
between 26 and 30	13	36%	5	26%	18	33%
between 30 and 40	5	14%	1	5%	6	11%
more than 40	4	11%	1	5%	5	9%
Total	36	100	19	100	55	100

The 20 to 25 year age cohort was the main group in each study, then 26 to 30 years, while less than 20 and more than 30 years were much smaller proportions. Backpackers are young and generally well educated and informed about the destination to which they travel, although that does not necessarily extend to hazards.

Table 29. Age of backpackers

	Frequency	Percent
0-19	15	9
20-25	95	60
26-30	38	24
31-40	10	6

Source: Kuehlbrandt 2000

Table 30. Age of backpackers

		Frequency	Percent
0-15	Years old	1	.5
16-19	Years old	27	12.3
20-25	Years old	137	62.3
26-30	Years old	41	18.6
31-40	Years old	12	5.5
>40	Years old	2	.9
Total		220	100.0

Source: Hoogenraad and van Eden 2003

Gender: the 2003 and 2000 surveys interviewed larger numbers of respondents and covered roughly equal numbers of males and females. In this smaller survey there were slightly more males amongst the backpackers. It is reasonable to assume that generally there are probably equal proportions of males and females amongst backpackers in Australia.

Table 31. What is your first language? Language by City

Language	Cit			otal
	Townsville	Cairns		
	Number	Number	Number	%
Czech	2	0	2	4%
Danish	3	0	3	5.5%
Dutch	3	0	3	5.5%
English	7	4	11	20%
Estonian	1	0	1	2%
French	4	3	7	13%
German	3	2	5	9%
Hungarian	0	1	1	2%
Italian	4	0	4	7%
Japanese	0	2	2	4%
Korean	4	0	4	7%
Lebanese	0	1	1	2%
Malagasy	1	0	1	2%
Portuguese	0	1	1	2%
Slovenian	0	1	1	2%
Spanish	3	4	7	13%
Swedish	1	0	1	2%
Total	36	19	55	100%

The majority of backpackers were from Europe (86% in 2003 and 62% in this study). While the earlier studies identified a far greater proportion of UK origin and backpackers in their studies in Cairns, at this time the UK economy is much more depressed than it was in 2003. The nature of small surveys throws up a variability in details, but all three surveys show that backpackers have a good knowledge of English.

Table 32. Origin of Backpackers

	Frequency	Percent
UK	102	46.4
Europe (except UK)	88	40.0
USA and Canada	13	5.9
Israel	8	3.6
Asia	4	1.8
New Zealand	3	1.4
Other	2	.9
Total	220	100.0

36

Source: Hoogenraad and van Eden 2003

Total

Table 33. How good is your understanding of written and spoken English? Level of English by City

City Level of English Total Townsville Cairns Number % Number % Number % low 3 8% 0 0% 3 6% 9 7 middle 25% 37% 16 29% 17 9 26 good 47% 47% 47% 7 3 20% 16% 10 18% mother tongue

18

19

100%

55

100%

100%

In most of the cases, backpackers have a good knowledge of English. Those who reported a low knowledge of English had been working on the banana farms before the cyclone.

Table 34. General level of competency of written and spoken English: 2000

	L	
	Frequency	Percent
Good	126	80
Fair	23	15
Poor	9	6
Total	158	100

Source: Kuehlbrandt 2000

Table 35. Level of competency of written and spoken English: 2003

	Frequency	Percent
Fluent	164	74.5
Adequate/Fluent	28	12.7
Adequate	22	10.0
Limited/Adequate	4	1.8
Limited	2	.9
Total	220	100.0

Source: Hoogenraad and van Eden 2003

As English ability is not a constraint, a wide range of information and warning sources is available to backpackers.

Table 36. How did you get information about the cyclone warning? What source?

Source of information on	Age	between	between	between	more	Tot	al
Yasi	less than	20 and	26 and	30 and	than		
	20	25	30	40	40	Number	%
Word of mouth	2	8	6	0	1	17	31%
TV	0	4	2	4	0	10	18%
newspaper	0	2	1	1	0	4	7%
Internet	0	1	4	0	1	6	11%
government text	1	5	2	0	0	8	15%
from relatives outside NQ	0	0	1	0	3	4	7%
a little bit from everywhere	0	3	2	1	0	6	11%
Total	3	23	18	6	5	55	100%

The information texts concerning Yasi that were sent by government were fairly useful to backpackers, whereas TV and newspapers were a significant source for many people. Word-of-mouth was equally beneficial for each age group.

Table 37. Source of up to date cyclone information

•	Frequency	Percent
Local residents	68	43
Internet	50	32
TV	47	30
Travel agencies	44	28
Radio	42	27
Accommodation providers	35	22
Other travellers	24	15
Police	17	11
Word of mouth	11	7
Other	11	7
Airlines	6	4
Total respondents	(158)	

Source: Kuehlbrandt 2000

Note: multiple answers were recorded for each respondent

Table 38. Source of up to date cyclone information

Tuble 30. Bource of up to		Percent of all	Percent of actual
		responses	responses
Internet	161	36.6	61.0
TV	29	6.6	11.0
Travel agencies	20	4.5	7.6
News(papers)	13	3.0	4.9
Library	11	2.5	4.1
No response	6	1.4	2.3
Local residents	5	1.1	1.9
Don't know	4	.9	1.5
Radio	3	.7	1.1
Word of mouth	3	.7	1.1
Other	3	.7	1.1
Accommodation providers	2	.5	.8
Other travellers	2	.5	.8
Guidebook	2	.5	.8
Total	264	60.0	100
No 2nd answer given	176	40.0	
Total respondents	440	100.0	

Source: Hoogenraad and van Eden 2003

Note: multiple answers were recorded for each respondent

Table 36 records specific information on Yasi, whereas each of the other surveys recorded a range of cyclone information at a time when there was no threat. The variability of internet use is interesting. This may partly reflect the lack of IT sites about cyclones and probably a lack of backpacker knowledge of sites such as the Bureau of Meteorology.

#### **Evacuation**

Backpackers are an important component of the North Queensland economy. While they generally spend minimal amounts of money on food and accommodation, they are major consumers of adventure and recreational activities. In the past backpackers were disparaged as a minor contribution to tourism but his attitude has changed over time. They are part of a significant component of the independent visitors who not only consume a niche of the tourist market but who also stay for extended periods of time. An important part of the trip for many backpackers is employment at tourist locations and on farms in adjacent areas. In North Queensland many backpackers work in bars and restaurants etc, but significant numbers also work on farms, fruit picking and packing, as in the mango and banana industries, and in various jobs on cattle stations in the outback.

As Yasi approached many backpackers on coastal farms were told to evacuate, often without instructions as to where, and finding no official support or transport in evacuating. Additionally, people at vulnerable beachfront tourist locations were ordered to evacuate en masse. Magnetic Island and beachside suburbs in Townsville and Cairns were evacuated prior to Yasi. Media estimates suggested that 75,000 people were evacuated in Queensland during the period of the floods and cyclones from late December to early February (Townsville Bulletin 12/2/11). This could constitute the biggest natural disaster evacuation in Australian history. Evacuation may not have been long distance or of long duration for many, but it was part of the 2010/11 wet season experience for large numbers of people.

The evacuation experience was an important part of the survey, with the following tables detailing the extent and pattern of the experience for a small number of backpackers.

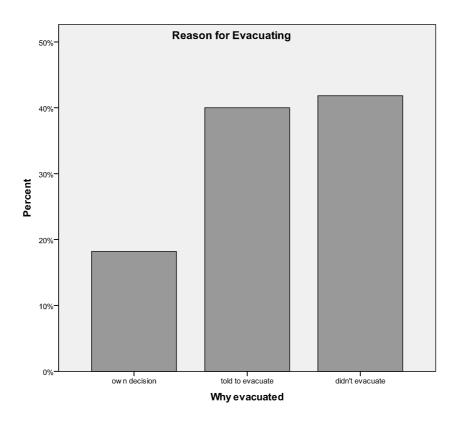


Table 39. Were you told to evacuate or did you make your own decision to evacuate? Evacuation Decision by City

Evacuation Decision		Cit	Total			
	Townsville		Cairns			
	Number	%	Number	%	Number	%
own decision	9	25%	1	5%	10	18%
told to evacuate	12	33%	10	53%	22	40%
didn't evacuate	15	42%	8	42%	23	42%
Total	36	100%	19	100%	55	100%

The proportions evacuated to Townsville and Cairns were the same. Almost 70% of people who evacuated had been told to do so, especially those who were interviewed in Cairns. A relatively small number took the decision themselves.

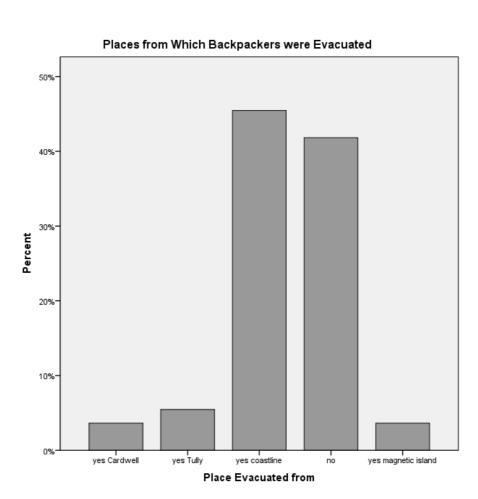


Table 40. As the cyclone approached were you staying at a place where you had to evacuate?

If yes where? Origin Location of Evacuees by City

if jes where, origin Escation of Evacues by only							
Places Evacuated from		City					
	Towns	ville	Cai	Cairns			
	Number	%	Number	%	Number	%	
from Cardwell	2	6%	0	0%	2	4%	
from Tully	3	8%	0	0%	3	5.5%	
from the coastline	14	39%	11	58%	25	45.5%	
from Magnetic Island	2	6%	0	0%	2	4%	
Not evacuated	15	41%	8	42%	23	42%	
Total	36	100%	19	100%	55	100%	

These specific areas that were evacuated were the coastline in general, Cardwell, Tully Coast and Magnetic Island. Those who had evacuated from Cardwell and Tully involved people who had been working on fruit and banana farms. The majority of evacuees had been staying in a variety of seafront locations. People commented on the lack of specific advice on being told to evacuate and on the lack of facilities etc, especially in Townsville.

#### **Cyclone Experience**

Table 41. Was it the first cyclone you have experienced? First personally experienced Cyclone by City

First		Total				
Cyclone	Town	wnsville Cairns				
	Number	%	Number	%	Number	%
yes	26	72%	12	63%	38	69%
no	10	28%	7	37%	17	31%
Total	36	100%	19	100%	55	100%

For most people this was their first experience of a cyclone: 69% of the backpackers hadn't experienced a cyclone before Yasi. In the 2003 survey 69% of backpackers had never travelled in cyclone prone areas of Australia before.

Table 42. Lived in a cyclone prone area: 2003

	Frequency	Percent
Yes	13	5.9
No	207	94.1
Total	220	100.0

Source: Hoogenraad and van Eden 2003

Table 43. Travelled in a cyclone prone area: 2003

	Frequency	Percent
Yes	67	30.5
No	151	68.6
Don't know	2	.9
Total	220	100.0

Source: Hoogenraad and van Eden 2003

The 2003 survey showed that most backpackers had come to North Queensland without any direct cyclone experience. Most previous experiences of cyclones had been in America and Asia. (There is an insignificant discrepancy of one person between tables 41 and 44.)

Table 44. Have you ever experienced a cyclone or hurricane before? If yes, where was it?

Place previously experienced cyclone by City

Place previously experienced		City			Total	
cyclone	Townsv	ille	Cai	irns		
	Number	%	Number	%	Number	%
No experience	27	75%	12	64%	39	71%
America	1	3%	2	10.5%	3	5%
Asia	1	3%	2	10.5%	3	5%
Australia	0	0%	1	5%	1	2%
Australia, Asia, America	1	3%	0	0%	1	2%
Australia, Louisiana	1	3%	0	0%	1	2%
Haiti	0	0%	1	5%	1	2%
Korea	4	10%	0	0%	4	7%
Martinique	1	3%	0	0%	1	2%
Pacific islands	0	0%	1	5%	1	2%
Total	36	100%	19	100%	55	100%

#### **Impact**

Impact records the damage that occurred to the place of shelter of the backpackers.

Table 45. Was there any damage at the place where you were staying?

Damage in the shelter by City

Damage in		Cit	Total			
the shelter	Town	ownsville Cairns		Cairns		
	Number	%	Number	%	Number	%
yes	21	58%	16	84%	37	67%
no	15	42%	3	16%	18	33%
Total	36	100%	19	100%	55	100%

The main damage was to trees with small amounts of flooding. People from the same shelter did not necessarily have the same answer on how much or what damage had occurred. Tables 45 and 46 record whether there was damage and the type of damage reported. Most places sustained some level of damage although it was generally minor.

Table 46. Was there any damage at the place where you were staying? What sort of damage?

Kind of damage by City

Kind of damage by City						
Kind of damage	City				Total	
	Towns	sville	Ca	irns		
	Number	%	Number	%	Number	%
trees	4	11%	4	21%	8	14%
trees, little flood	13	36%	1	5%	14	25.5%
trees, major flood	0	0%	1	5%	1	2%
roof, trees, flood	4	11%	10	53%	14	25.5%
no damage	15	42%	3	16%	18	33%
Total	36	100%	19	100%	55	100%

Table 47. During the evening and night of Wednesday into Thursday where did you shelter?

Place of Shelter by Kind of damage at Shelter

Shelter during the	Kind of damage					То	Total	
storm	trees	trees,	trees,	roof,	no	Number	%	
		little	major	trees,	damage			
		flooding	flooding	flooding				
in a safe room of	2	10	0	7	5	24	43.6%	
my hostel								
Commonwealth	0	0	0	0	5	5	9.1%	
shelter								
Parking shelter on	2	2	0	0	2	6	10.9%	
Flinders street								
Primary School	4	1	0	3	0	8	14.5%	
Stockland shelter	0	0	0	0	2	2	3.6%	
with friends	0	0	0	1	2	3	5.5%	
with strangers	0	0	1	3	0	4	7.3%	
Holiday Inn	0	0	0	0	2	2	3.6%	
Civic guest house	0	1	0	0	0	1	1.8%	
Total	8	14	1	14	18	55		
	100.0%	100.0%	100.0%	100.0%	100.0%		100.0%	

Table 47 indicates the places where backpackers stayed during the night of Yasi and the sort of damage that occurred to each place. Many evacuation shelters opened up during Wednesday and people went to them regardless of whether or not they needed to. Centres were specifically intended for those who were told to evacuate, but many nervous citizens and tourists went to them for shelter. Consequently some were overcrowded and stressful.

Table 48. Impacts of cyclone Steve on the accommodation facility: 2000

	Number	Percent
no impact, no damage	11	52
no tourists - bad business	6	29
damage to building	5	24
debris	5	24
power loss	4	19
flooding/water damage	3	14
adverse media	2	10
public transport	2	10
no impact on business,	1	5
people stayed longer		
Total respondents	21	

Source: Kuehlbrandt 2000

Note: multiple answers were recorded for

each respondent

Table 49. Possible impacts of cyclones on the accommodation facilities according to backpackers owners

	Frequency	Percent
Power failure	12	57
Severe winds	10	48
Damage from flying debris	8	38
Flooding	7	33
Storm surge	5	24
All	4	19
None	1	5
Other	1	5
Total respondents	21	

Source: Kuehlbrandt 2000

Note: multiple answers were recorded for

each respondent

The 2000 survey was carried out in the latter half of 2000 during the dry season, but cyclone Steve had crossed Cairns earlier in the year, at a slightly stronger impact than that of Yasi in Cairns. The 2000 survey interviewed the staff or owners of 21 backpacker establishments and the 2003 survey interviewed staff or owners of 16 accommodation facilities. Tables 48 to 50 suggest a broadly similar impact had occurred in 2000 to that in Townsville and Cairns during Yasi.

Table 50. Possible damage at facility in case of a cyclone according to backpackers owners

metorum 5 to outinputinons	0	
	Frequency	Percent
Storm surge	4	25.0
Severe winds	3	18.8
Damage from flying debris	4	25.0
Power failure	1	6.3
Wouldn't	1	6.3
Other	1	6.3
No second answer given	2	12.5
Total answers given	16	100.0

Source: Hoogenraad and van Eden 2003

The expectation of cyclone damage varied considerably between the two surveys, the numbers were small and many premises were different between the surveys.

Table 51. Did the place you were staying at lose power? How long for?

Loss of power by City

Loss of power		To	tal			
	Townsville		Cairns			
	Number	%	Number	%	Number	%
yes between 1 day and 3 days	5	14%	4	21%	9	16%
yes more than 3 days	13	36%	8	42%	21	38%
Yes the whole time in the shelter	11	31%	6	32%	17	31%
no	7	19%	1	5%	8	15%
Total	36	100%	19	100%	55	100%

The majority of backpackers experienced loss of power, many for more than three days. Part of awareness education is to be prepared for loss of power for at least three days. Extreme wind damage to vegetation resulted in a widespread power loss in both cities.

Table 52. Did the place at which you were staying lose water? How long for?

Loss of water by City

Loss of water		Cit	To	tal		
	Townsville Cairns		Townsville			
	Number	%	Number	%	Number	%
yes few hours	5	14%	3	16%	8	14.5%
no	31	86%	16	84%	47	85.5%
Total	36	100%	19	100%	55	100%

The loss of water was a minor issue: only 15% and for just a few hours. At a point shortly after the cyclone Townsville's main water supply was in danger of failure, but the power was restored to pumps just before storage was exhausted. More remote locations experienced longer loss of water, but this did not affect most backpackers.

#### **Personal Impact**

Table 53. Would you have come to North Queensland if you had known this would happen? Decision to come to NQ if Yasi had been predicted by City

Visit to NQ		Total				
if Yasi	Town	nsville Cairns				
predicted	Number	%	Number	%	Number	%
yes	17	47%	13	68%	30	55%
no	19	53%	6	32%	25	45%
Total	36	100%	19	100%	55	100%

Almost half of the backpackers would have changed their trip plans if they had known about Yasi beforehand. The 2003 survey showed that there was no real influence on preparedness of the choice of accommodation and that people didn't think about the cyclone season when they decided to come to Australia. The 2000 study showed a slightly higher consideration of cyclone risk. As Table 53 shows, the experience of the cyclone probably made backpackers more cautious about the choice they might have made.

Table 54. Influence of cyclone preparedness on choice of accommodation

	Frequency	Valid
		Percent
Yes	32	21
Yes, in cyclone season	34	22
No	86	55
Do not know	6	2
Total	158	100
Source: Kuehlbrandt 20	000	

Table 55. Influence of cyclone

preparedness on choice of accommodation

Yes	50	22.7
No	164	74.5
Don't know	6	2.7
Total	220	100.0

Source: Hoogenraad and van Eden 2003

Table 56. Do you have any other comments? Significant Issues: Expectation of ending up in this city during the cyclone by City

Expectation of chang up in this city during the cyclone by city										
Expectation of		City								
ending up in this	Townsville Cairns									
city before, during	Number	%	Number	%	Number	%				
or after the cyclone										
yes	15	42%	16	84%	31	56%				
no	21	58%	3	16%	24	44%				
Total	36	100%	19	100%	55	100%				

Almost half of the backpackers did not expect to come to this location or to stop there during their trip. This was especially the case in Townsville where 58% felt that they were there against their will. The survey question tabulated in Table 57 was an open-ended statement about a variety of issues. These were diverse, some negative, some positive, but a repeated issue was the unexpectedness of their destination during the cyclone -- a consequence of evacuation. For many, being in Townsville was neither planned nor desired.

Table 57. How do you feel about the whole cyclone experience?

Feeling about the whole cyclone experience by City

Feeling about the whole		City				
experience	Towns	ville	Cairns			
	Number	%	Number	%	Number	%
scary experience	9	25%	4	21%	13	24%
disappointed	13	36%	8	42%	21	38%
enjoyed it	3	8%	2	11%	5	9%
nothing in particular	11	31%	5	26%	16	29%
Total	36	100%	19	100%	55	100%

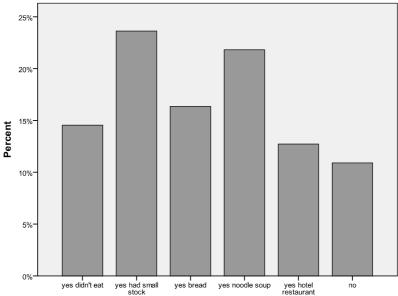
Many backpackers were disappointed by the whole experience of the cyclone. Because of all the warning information beforehand they thought it would be a major disaster but felt that it wasn't really that bad. Only a minority found it scary -- perhaps to be expected of the dominantly youthful set of respondents.

Table 58. After the cyclone had passed did you have any problems getting food to eat? How

did you feed yourself? Issues to find food - if yes what did you eat by City

Issues to find food - if yes		Total				
what did you eat	Towns	sville	Cair	ns		
	Number	%	Number	%	Number	%
yes - didn't eat	5	14%	3	16%	8	14%
yes - had small stock	10	28%	3	16%	13	24%
yes - bread	6	17%	3	16%	9	16%
yes - noodles	8	22%	4	21%	12	22%
yes - hotel restaurant	7	19%	0	0%	7	13%
no	0	0%	6	32%	6	11%
Total	36	100%	19	100%	55	100%





Issues to find food - if yes what did you eat

The problem of finding food after the cyclone was greatest in Townsville, but generally this issue impacted the majority of backpackers. With power off, shops closed and many having been evacuated at short notice food was a major problem for almost 90% of the backpackers.

Table 59. Did you receive any assistance? Source of Assistance by City

Assistance from	City				Total	
	Towns	ville	Cairns			
	Number	%	Number	%	Number	%
the staff of the shelter	10	28%	5	26%	15	27%
other tourists	1	3%	0	0%	1	2%
official and voluntary organisations	9	25%	6	32%	15	27%
other tourists and official tourists	1	3%	1	5%	2	4%
the staff and official organisations	0	0%	2	11%	2	4%
the staff and tourists	3	8%	1	5%	4	7%
no assistance	12	33%	4	21%	16	29%
Total	36	100%	19	100%	55	100%

The previous tables have indicated more general impacts. Table 59 records the type and source of assistance backpackers received during and after the cyclone. 71% of backpackers reported having received assistance from the staff of their shelters or from official organisations: information and food, and some assistance from other tourists. Assistance helped individuals in regaining confidence.

Table 60. What sort of assistance did you get and who from? Kind of assistance by City

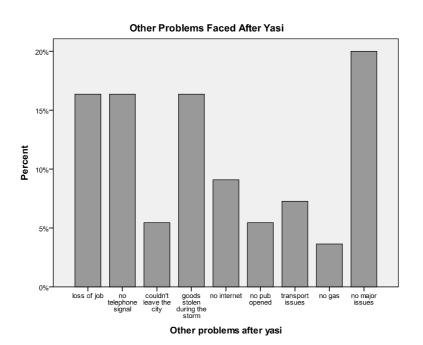
Kind of assistance		Total				
	Townsville		Cairns			
	Number	%	Number	%	Number	%
information and advice	9	25%	12	63%	21	38%
food and water	2	6%	0	0%	2	4%
light, food, information	8	22%	1	5%	9	16%
confidence	5	14%	2	11%	7	13%
no assistance	12	33%	4	21%	16	29%
Total	36	100%	19	100%	55	100%

The type of assistance received particularly involved information and advice. Food and water were less forthcoming in terms of assistance, although the giving of confidence -- lifting morale -- is an important observation.

Table 61. What other problems did you face after the cyclone had passed?

Other problems after Yasi by City

Other problems after Yasi	Ĭ	Total				
-	Towns	ville	Cai	Cairns		
	Number	%	Number	%	Number	%
loss of job	7	19%	2	11%	9	16%
no telephone signal	5	14%	4	21%	9	16%
couldn't leave the city	3	8%	0	0%	3	5.5%
goods stolen during the storm	6	17%	3	16%	9	16%
no internet	2	6%	3	16%	5	9%
no pub opened	2	6%	1	5%	3	5.5%
transport issues	3	8%	1	5%	4	7%
no gas	2	6%	0	0%	2	4%
no major issues	6	17%	5	26%	11	20%
Total	36	100%	19	100%	55	100%



Because of the loss of telephone signals right after the cyclone many backpackers were frustrated and unable to call their relatives. For some backpackers (16%) an important issue was the loss of a job or work as well as the loss of a part of their holiday. Many backpackers reported seeing their goods robbed during the cyclone (bags and bicycle). Immediately after the cyclone transport had also been an issue: it was in short supply and expensive for people who wanted to leave Townsville quickly. While it is clear that international backpackers are young and resilient, their experiences during and after the cyclone were generally a cause for some stress and considerable inconvenience.

#### **Travel Patterns of Backpackers**

Table 62. How you have assisted each other? Help to other people by City

Help to other people		City				
Troup to outsi propro	Townsville		Cairns		To	
	Number	%	Number	%	Number	%
no help	15	42%	13	68%	28	51%
made them calm	16	44%	4	21%	20	36%
cooked	2	6%	1	5%	3	6%
gave information	3	8%	1	5%	4	7%
Total	36	100%	19	100%	55	100%

Table 62 indicates significant provision of help and assistance by the backpackers towards others, primarily helping other backpackers. Making people calm is significant and relates to the idea of regaining confidence as stated earlier.

Table 63. How long are you staying in Australia? Length of stay in Australia by City

Length of stay in Australia	City		Total			
	Townsville		Cairns			
	Number	%	Number	%	Number	%
less than one month	1	3%	0	0%	1	2%
between 1 month and 3 months	10	28%	3	16%	13	24%
between 3 months and 6 months	7	19%	3	16%	10	18%
between 6 months and 1 year	5	14%	6	32%	11	20%
more than 1 year	9	25%	1	5%	10	18%
don't know	4	11%	6	32%	10	18%
Total	36	100%	19	100%	55	100%

Table 64. Length of stay in Australia: 2000

Frequency	Percent
1	1
20	14
28	20
10	7
18	13
2	1
56	39
7	5
	1 20 28 10 18 2

Source: Kuehlbrandt 2000

Table 65. Length of stay in Australia: 2003

	Frequency	Percent
< 2 weeks	1	.5
2 weeks < 2 months	54	24.5
2 months < 4 months	68	30.9
4 months < 6 months	31	14.1
6 months < 8 months	22	10.0
8 months < 10 months	7	3.2
10 months - 12 months	33	15.0
> 1 year	4	1.8
Total	220	100.0

Source: Hoogenraad and van Eden 2003

All three surveys show that the majority of backpackers stay in Australia for extended periods of time, contributing significantly to the economy. They are required on arrival to bring significant financial resources to support themselves and many have visas that permit employment.

It is incumbent upon us as communities and arms of government to take responsibility for the safety and well-being of these young people who make a contribution to the community that goes beyond their role as tourists.

Table 66. How long are you staying in North Queensland? Length of stay in NO by City

Length of stay in NQ		Total				
	Towns	sville	Cairns			
	Number	%	Number	%	Number	%
less than 1 week	2	6%	1	5%	3	5%
between 1 week and 3 weeks	5	14%	4	21%	9	16%
between 1 month and 3 months	11	31%	7	37%	18	33%
between 4 months and 6 months	2	6%	0	0%	2	4%
more than 6 months	1	3%	0	0%	1	2%
don't know	15	42%	7	37%	22	40%
Total	36	100%	19	100%	55	100%

Backpackers visit Australia and travel up to North Queensland as one component of a much longer trip. The length of stay in North Queensland is much shorter but for quite a few backpackers it is still significant -- 37% said they expected to be in North Queensland for between one and six months. Of significance are the 40% who didn't know how long they expected to stay there.

Table 67. What means of transport have you been using while travelling in Australia?

Means of transport used in Australia by Age

Means of transport			Age			Tota	al
used in Australia	less than	between	between	between	more	Number	%
	20	20 and 25	26 and 30	30 and 40	than 40		
car	0	5	3	2	1	11	20%
hitchhiking	0	3	2	0	0	5	9%
plane, bus	1	5	5	1	4	16	29%
plane, bus,	1	5	1	2	0	9	16%
hitchhiking							
bus, hitchhiking,	0	4	4	1	0	9	16%
bicycle							
bus, train	1	1	2	0	0	4	8%
motorbike	0	0	1	0	0	1	2%
Total	3	23	18	6	5	55	100%

Tables 67 and 68 look at the means of transport from the perspective of age and location of respondents. There is not a significant pattern. Bus is the main form of transport used by backpackers. In general, bus services were the target of many critics: there were not enough before the cyclone for the people who wanted to run away from its impact and neither was there sufficient availability after when they wanted to leave Townsville as quickly as possible. Plane travel is used only for really long journeys. Personal cars and hitch hiking were used by men in particular.

Table 68. What means of transport have you been using while travelling in Australia?

Means of transport used in Australia by City

Means of transport used in		Ci	ty		Total	
Australia	Towns	ville	Cai	rns		
	Number	%	Number	%	Number	%
bus	4	11%	0	.0%	4	7%
car	9	25%	2	10.5%	11	20%
hitchhiking	2	6%	3	16%	5	9%
plane, bus	10	28%	2	10.5%	12	22%
plane, bus, hitchhiking	3	8%	6	32%	9	16%
bus, hitchhiking, bicycle	5	14%	4	21%	9	16%
bus, train	3	8%	1	5%	4	7%
motorbike	0	0%	1	5%	1	2%
Total	36	100%	19	100%	55	100%

Table 69. Transport use

Type of		Percentage of use										
transport	1-2	0%	21-	40%	41-	-60%	61-8	30%	81-10	00%	То	tal
1	F	%	F	%	F	%	F	%	F	%	F	%
4WD	16	64	1	4	1	4	0	0	7	28	25	16
motor bike	1	50	0	0	0	0	0	0	1	50	2	1
hitchhiking	2	20	3	30	1	10	2	20	2	20	10	6
train	4	27	7	47	4	27	0	0	0	0	15	9
motor car	10	17	7	12	8	14	8	14	26	44	59	37
bicycle	3	38	1	13	0	0	1	13	3	38	8	5
bus	16	15	11	10	17	16	21	20	42	39	107	68
plane	36	55	8	12	11	17	5	8	6	9	66	42
other	1	20	3	60	0	0	1	20	0	0	5	3

Source: Kuehlbrandt 2000

Table 70. Main transport use

	Frequency	Percent
Bus	149	67.7
Car	44	20.0
Plane	16	7.3
Van	5	2.3
Train	3	1.4
4WD	1	.5
Bicycle	1	.5
Hitchhiking	1	.5
Total	220	100.0

Source: Hoogenraad and van Eden 2003

The 2000 and 2003 surveys show some similar results. Hitchhiking was a significant means of travel in earlier decades but for the current generation of backpackers it has dropped to a very low level, probably consequent upon some well-publicised horror stories, backed up by advice to refrain from hitchhiking.

Table 71. Have you been travelling in Australia alone, or with friends or other visitors?

Travel mates by City

Travel mates		Total				
	Town	sville	Cai	Cairns		
	Number	%	Number	%	Number	%
alone	16	44%	10	53%	26	47%
with my partner	6	17%	2	10%	8	15%
with friend(s)	13	36%	3	16%	16	29%
with my family	1	3%	4	21%	5	9%
Total	36	100%	19	100%	55	100%

The majority of backpackers travel with other people (friends mostly) but a significant number travel alone (35% in 2000, 31% in 2003 and 47% in this survey). These individuals are potentially more vulnerable than those who are part of informal groups. Backpackers are not part of formal or commercial organised groups.

Table 72. Size of travel group

Source: Kuehlbrandt 2000

Tuble 72. Bize of travel group							
	Frequency	Valid Percent					
Small informal group	99	63					
Alone	56	35					
Organised group	3	2					

Table 73. Size of travel group

	Frequency	Percent
Alone	69	31.4
Small informal group	149	67.7
Group	2	.9
Total	220	100.0

Source: Hoogenraad and van Eden 2003

Travelling in small informal groups was dominant in the 2000 and 2003 surveys. The fact that this is a much lower proportion in the post Yasi survey, where those travelling alone formed a much higher percentage, may partly be attributable to the evacuation experience, where the move was made hurriedly and at short notice. This also could explain the relatively high rate of loss of belongings from crime.

Table 74. Where do you plan to travel to next? Travel Plans by City

Travel Plans	City				Total		
	Towns	Townsville		Cairns			
	Number	%	Number	%	Number	%	
Brisbane	6	17%	0	0%	6	11%	
Bundaberg	3	8%	0	0%	3	5%	
Cairns	6	17%	0	0%	6	11%	
Canberra	0	0%	1	5%	1	2%	
Cardwell	2	6%	0	0%	2	4%	
Darwin	1	3%	1	5%	2	4%	
don't know	9	24%	9	47%	18	32%	
Gold Coast	2	6%	0	0%	2	4%	
Ingham	1	3%	0	0%	1	2%	
Mackay	1	3%	0	0%	1	2%	
Melbourne	1	3%	1	5%	2	4%	
Newcastle	1	3%	0	0%	1	2%	
Perth	0	0%	3	16%	3	6%	
Rockhampton	1	3%	0	0%	1	2%	
Sydney	0	0%	3	16%	3	5%	
Tasmania	1	3%	0	0%	1	2%	
Western Australia	1	3%	0	0%	1	2%	
Townsville	0	0%	1	5%	1	2%	
Total	36	100%	19	100%	55	100%	

The largest group in Table 74, which records the next stage of travel plans, comprised 32% who said they don't know.

#### **Information and warnings**

The final tables deal with information and warnings.

Table 75. When did you first hear about cyclone Yasi?

Date of first information on Yasi by City

Date of first	City				Total	
information on Yasi	Townsville		Cairns			
	Number	%	Number	%	Number	%
Saturday	3	8%	0	0%	3	5.5%
Sunday	3	8%	3	16%	6	11%
Monday	17	47%	9	47%	26	47%
Tuesday morning	11	31%	6	32%	17	31%
Tuesday afternoon	2	6%	1	5%	3	5.5%
Total	36	100%	19	100%	55	100%

Backpackers, along with most of the rest of the community, learned about cyclone Yasi relatively late: 47% on Monday and 37% on Tuesday. However the track of the cyclone was indeterminate until Wednesday with many people having been told to evacuate on Tuesday as a precaution. Also the weekend was dominated by the threat to Townsville, and areas south, of the passage of cyclone Anthony. From Tuesday onwards it would be fair to say that warnings of Yasi dominated all media.

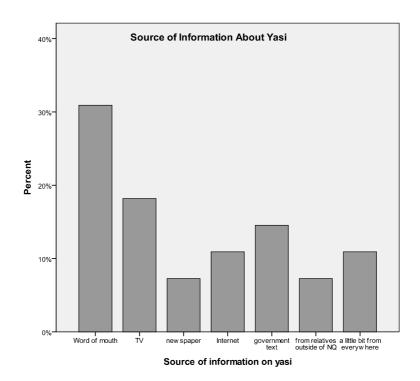


Table 76. How did you get information about the cyclone warning? What source? Source of information on Yasi by City

Source of information on		Total				
Yasi	Townsville		Cairns			
	Number	%	Number	%	Number	%
Word of mouth	12	34%	5	26%	17	31%
TV	8	22%	2	11%	10	18%
newspaper	4	12%	0	0%	4	7%
Internet	3	8%	3	16%	6	11%
government text	3	8%	5	26%	8	15%
from relatives outside of NQ	3	8%	1	5%	4	7%
a little bit from everywhere	3	8%	3	16%	6	11%
Total	36	100%	19	100%	55	100%

Specific sources of information on Yasi are shown in Table 76. Respondents nominated a principal source of information but several stated that they had picked up bits of information from many different sources. Word of mouth, TV and government texts were the main sources of information on Yasi for these respondents.

#### **References**

Hoogenraad, Wouter and van Eden, Ronald. 2003. *Tropical cyclone awareness and preparedness amongst backpackers and accommodation providers in Cairns, Queensland, Australia*. Ed. King, David. Centre for Disaster Studies JCU, Cairns

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David King is Director of the Centre for Disaster Studies.

#### Appendix. Survey Instrument.



Centre for Disaster Studies, James Cook University.

Post Cyclone Yasi Survey of independent tourists and backpackers.

This brief survey is to find out how visitors and tourists coped during and after the passage of cyclone Yasi on 2<sup>nd</sup>/3<sup>rd</sup> February 2011. Results will be used to advise emergency services organisations on how visitors responded during the emergency. The survey is completely confidential and has ethical approval from James Cook University. The survey is voluntary and you can stop it whenever you wish. My name is ....... and I am a student with the Centre for Disaster Studies at the university. For further information and confirmation that this is a genuine research survey please contact the director, Associate Professor David King on 0747814430 in the School of Earth and Environmental Sciences, James Cook University.

Thank you very much for agreeing to participate in this survey.

- 1 City
- 2 Location
- 3 What date did you first arrive in North Queensland?
- 4 Where were you staying on the night the cyclone hit?
- 5 Were you aware that this area is affected by tropical cyclones?
- Were you prepared for experiencing a cyclone before you arrived here?
- 7 If yes, what sort of preparations had you made?
- 8 Where did you obtain information about cyclones generally, and how to be prepared?
- 9 How useful was the cyclone information you had received?
- 10 How useful were your preparations?
- 11 When did you first hear about cyclone Yasi?
- How did you get information about the cyclone warning? What source? ie radio, TV, text, Internet, word of mouth etc.
- 13 What means of transport have you been using while travelling in Australia?
- 14 Did you consider leaving North Queensland when you heard the cyclone warning?
- 15 Why didn't you leave?
- 16 As the cyclone approached were you staying at a place where you had to evacuate? If yes where?
- 17 If yes, were you told to evacuate or did you make your own decision to evacuate?
- 18 What did you do on Wednesday as the cyclone approached?
- 19 During the evening and night of Wednesday into Thursday where did you shelter?
- 20 Were you with other people while the storm passed?
- 21 What did you do during the night as the storm passed through?
- 22 Did you go outside during the evening or night while the strong winds blew?
- 23 How did you feel as the cyclone reached its peak?
- 24 Was there any damage at the place where you were staying?

- 25 If yes, what sort of damage?
- 26 Did the place you were staying at lose power? If yes how long for?
- 27 Did the place at which you were staying lose water? If yes how long for?
- After the cyclone had passed did you have any problems getting food to eat? How did you feed yourself?
- 29 What other problems did you face after the cyclone had passed?
- 30 Did you receive any assistance from a) staff where you were staying b) other tourists c) official or voluntary organisations
- 31 What sort of assistance did you get and who from?
- 32 How do you feel about the whole cyclone experience?
- Would you have come to North Queensland if you had known this would happen?
- Where do you plan to travel to next?
- 35 Have you ever experienced a cyclone or hurricane before?
- 36 If yes, where was it?
- 37 Have you been travelling in Australia alone, or with friends or other visitors?
- 38 If yes, please tell me how you have assisted each other?
- 39 Where are you from?
- 40 What is your first language?
- 41 How good is your understanding of written and spoken English?
- 42 How old are you?
- 43 How long are you staying in Australia?
- 44 How long are you staying in North Queensland?
- 45 Gender
- 46 Do you have any other comments?