

## Resources

### FREE & LOW-COST DISASTER EDUCATION RESOURCES FOR SCHOOLS

Many curriculum-based natural hazard awareness and disaster education resources are available free or at low cost to schools and the general community within Australia and its region of interest. They seek to raise awareness of natural hazard risk, vulnerability, and community strategies for disaster prevention, preparedness and response. The aim is to achieve long term change in attitudes and behaviour to hazards and to encourage disaster prevention.

This section includes information about a selection of educational resources which have been developed by education, hazard and emergency specialists in cooperation with Emergency Management Australia's (EMA) Disaster Awareness Program and the Australian Secretariat for the International Decade for Natural Disaster Reduction (IDNDR).

All prices include postage and handling (last updated February 1999).

**Natural hazards and disaster prevention** are popular topics among students and can be readily incorporated into most key learning areas. A recent mapping exercise discovered the following strong links to the national curriculum:

#### **STUDIES OF SOCIETY & ENVIRONMENT (SOSE)**

(Time, Continuity and Change;  
Place and Space; Resources; Natural and Social Systems; Investigation, Communication and Participation)

**SCIENCE** (Earth and Beyond; Life and Living; Working Scientifically)

**HEALTH & PHYSICAL EDUCATION** (Safety; Human Relations)

**ENGLISH** (Writing; Reading and Viewing)

**MATHS** (Chance and Data)

We welcome feedback on the quality and usefulness of our resources and on how we can better encourage and support the teaching of natural disaster reduction in schools. Funding is available for innovative projects and new resources which aim to include information in school curricula on the effects of natural hazards on communities and teach relevant prevention and preparedness strategies.

For more information, contact the Australian IDNDR Secretariat, PO Box 1020, Dickson ACT 2602, Australia. Phone +61 (0)2 6266 5408. Fax +61 (0)2 6266 5029. Email: [idndr@ema.gov.au](mailto:idndr@ema.gov.au) or check our homepage: <http://www.ema.gov.au>

### FREE PAMPHLETS, BOOKLETS & POSTERS

#### **Hazards, Disasters & Survival** (48-pages)

Booklet contains information about hazards, detailed disaster case studies, Australian and International statistics, colour photos and survival tips. Class sets available.

**Cost?** Free

**Where from?** Local State/Territory Emergency Service

#### **Disaster Awareness and Education Resource Kit**

contains information pamphlets and action guides on cyclones, floods, severe storms, earthquakes, landslides, bushfire, lightning and heatwave, and a copy of *Hazards, Disasters & Survival*. Class sets of individual brochures and local advice on hazards in your area can be obtained from your local State/Territory Emergency Service. Rural fire authorities have additional bushfire information.

**Cost?** Free

**Where from?** EMA Disaster Awareness Program (kits) or local State/Territory Emergency Service (class sets)

**State/Territory Natural Hazard Posters** are now available for ACT, NSW, SA, Tasmania, WA and Victoria. These full-colour posters contain an overview of relevant natural hazards in each state or territory as well as photos and descriptions of local past disaster events. Other states/territories will follow later in 1999. Great for the classroom wall to learn about the types of hazards which can, and do, impact on your State/Territory.

**Cost?** Free

**Where from?** Local State/Territory Emergency Service

#### **The Australia's Natural Hazard Zones Poster Map**

covers all of Australia and indicates earthquake, bushfire, tsunami, severe storm, flood, drought and tropical cyclone risk by location, surrounded by colour photos. Ideal for the classroom wall to compare the different levels of risk from particular natural hazards in different parts of Australia.

**Cost?** Free

**Where from?** Local State/Territory Emergency Service

### INTERNET SITES

**EMA Homepage:** <http://www.ema.gov.au/schools/> includes information about hazards, disaster case studies, safety advice, who manages emergencies in Australia and lots of links to great Australian and overseas sites. Extra information for teachers will soon include free lesson plans, picture galleries and an annotated bibliography of other disaster education resources.

**LOW COST TEACHING RESOURCES**

**Hazard-Wise - Classroom Resource for Teachers on Natural Hazards and Disasters** is a 120-page A4 book of photocopiable classroom activities. Designed to reduce lesson preparation time for teachers of geography, science and social studies. It contains ready-to-use exercises, crossword puzzles, suggested research and role-plays based on Australian case studies which allow students to investigate the causes and effects of major hazards and ways to prepare and respond effectively.

**Cost?** \$10

**Where from?** Check your school/college library or relevant department first as free copies were distributed to most schools in 1996.

**To order,** fax EMA (Attn: IDNDR) on (02) 6266 5029 with number of copies required, your name, address, phone, fax & credit card details (card number, cardholder's name, signature & expiry date), or send a cheque or money order made payable to 'EMA' to Australian IDNDR Secretariat, GPO Box 1020, Dickson ACT 2602, Australia.

**Australia's Natural Hazard Educational Map Kits** help teachers introduce natural hazards at upper primary and lower secondary school levels. Each kit comprises 8 x A3-size full-colour maps of Australia and/or South Pacific region with one or two hazards per map. The reverse side provides teacher notes, brief case studies, prevention and preparedness information and classroom activities. The colourful carry-case also includes black line masters, a set of hazard action guides linked with the text.

**Cost?** \$20

**Where from?** Fax the Australian Geological Survey Organisation (AGSO) on (02) 6249 9982 with number of copies required, your name, address, phone, fax & credit card details (card number, cardholder's name, signature & expiry date), or send a cheque made payable to 'AGSO CPM' to AGSO Sales Centre, GPO Box 378, Canberra ACT 2601, Australia.

**Get Ready - Emergency Awareness Teaching Program for Levels 1 - 4** makes it easy to teach students how to recognise emergencies, what to do and how to stay safe. It is ready-to-use and is packed with fun, learning outcomes-based safety education activities and worksheets for primary and lower secondary school students. Distributed in a single wire-bound volume (78 pages) with an Australia's Natural Hazard Zones map poster.

**Cost?** \$15.85. Discount if purchased with the *Get Ready Picture Set* \$40.00 (Reduced prices for West Ed members).

**Where from?** Send a fax to West Education Centre on (03) 9314 1075 with your name, school or organisation, address, phone, fax and purchase order numbers or mail your details and a cheque to: West Education Centre, 38 Kingsville St, West Footscray VIC 3012, Australia.

**LOW COST TEACHING RESOURCES (continued)**

**Get Ready - Picture Set** comprises ten large full-colour discussion prints showing a range of emergency education situations. On the back of each print are suggested questions for primary and lower secondary level students, links to other prints in the set and to topics in the *Get Ready Teaching Program*. Packaged in a sturdy plastic folder with a copy of *Hazards, Disasters & Survival*.

**Cost?** \$28.40 (\$24.00 for West Ed members). Discount if purchased with the *Get Ready Teaching Program* \$40.00 (\$34.95 for West Ed members).

**Where from?** As for *Get Ready Teachers' Program*.

**Geography for Primary Schools** is a teaching resource-based on the national Society and Environment curriculum. It includes photocopiable pages and chapters on natural hazards for each level and guidance in writing programs and preparing teaching and learning activities.

**Cost?** \$30 each plus \$7 postage and handling

**Where from?** Send a cheque or money order made payable to 'GTASA' or credit card details (card number, cardholder's name, signature & expiry date) to Geography Teachers' Association of SA Sales Manager, 7 Moorcroft Crt, Burnside SA 5066, Australia with your name, school or institution, address, phone & fax numbers and number of copies required.

**VIDEOS****ABC Adult Disaster Education TV and Video Series**

contains six programs produced by the ABC in co-production with EMA and each State and Territory. Each 15-minute program examines a different natural hazard and provides practical advice on what households can do to prepare so that these hazards are less likely to result in disasters. **Hazards covered:** *severe storm; flood; bushfire; cyclone; earthquake and landslide; heatwave.*

**Cost?** Free (to air) Price of videos to be advised.

**Where from?** Check the ABC education calendar for screening times or contact the Australian IDNDR Secretariat (see above). Details for ordering videos available soon - register interest with the Aust IDNDR Secretariat.

Videos available for borrowing from the EMA Information Centre, Mt Macedon. A list will be on the EMA Homepage soon with details of how to borrow them.

## JOURNALS & OTHER RESOURCES

**Australian Journal of Emergency Management** and **INFO Recent** are published by EMA and are full of information on emergency management and disaster reduction topics.

**Cost?** Free

**Where from?** To subscribe, send mailing details to Rob Fleming on [rflaming@ema.gov.au](mailto:rflaming@ema.gov.au) or fax (03) 5421 5273.

**Emergency/Disaster Planning for Principals** helps people in charge of educational institutions to develop an emergency management plan. Suitable for pre-schools through to secondary schools and TAFE colleges.

**Cost?** Free. Revised in 1998.

**Where from?** Look for a copy in your school as copies are distributed automatically through state/territory education authorities (one copy per principal per school).

## ADDITIONAL INTERNET RESOURCES

These sites are helpful and/or have links to useful sites can be found at these address (URL):

**EMA School Resources for Teachers**

<http://www.ema.gov.au/school-proj.htm>

**EMA Web Site - Current Emergencies**

<http://mercury.ema.gov.au/currentoperations/default.htm>

**IDNDR Goals of the Decade**

<http://www.ema.gov.au/idndr/goals.htm>

**Geography : Environment : Society (Hazards links)**

<http://www.ozemail.com.au/~bmcelroy/links.html#Hazards>

**Australian Geography Teachers Association (Internet Links)**

<http://www.agta.asn.au/sites.htm>

**Australian Agency for International Development (AusAID)**

<http://www.ausaid.gov.au>

**Worldwatch Institute Home Page**

<http://www.worldwatch.org/index.html/>

**Discovery Online, Earth Alert - The Current Week**

<http://www.discovery.com/news/earthalert/earthalert.html>

**Earthweek - Back Issues** (now *Earth Alert*; see above)

[http://www.earthweek.com/html/back\\_issues.html](http://www.earthweek.com/html/back_issues.html)

**Australasian Fire Authorities Council**

<http://www.ausfire.com>

**Landslide Survival**

<http://www.agso.gov.au/geohazards/landslides/survival.html>

**Tsunami Hazard Mitigation**

<http://www.geophys.washington.edu/tsunami/general/mitigation/mitigation.html>

**Coming soon** Web pages on the EMA Site -

*The Hazards Folder*

## RESOURCES UNDER DEVELOPMENT WITH IDNDR FUNDING

Register interest with EMA (Attn: IDNDR) to receive more information when available. Fax: (02) 6266 5029 or email: [idndr@ema.gov.au](mailto:idndr@ema.gov.au).

**Hazards Folder - Issues-based teaching resource for Studies of Society and the Environment (SOSE)** lower and middle secondary school. It will be progressively posted on the EMA Homepage from April 1999.

**Hazards Happen** Educational CD ROM on Reducing Australian Natural Disasters is structured according to earth, wind, air and fire, with interactive sections to help students learn what they can do to prepare for and prevent disasters. With hazard information and case studies. (Mid 1999).

**Newcastle Earthquake Database** Schools CD ROM will include a range of primary and secondary information sources from the extensive Newcastle Earthquake database and suggested activities (Available late 1999).

**You Are the Manager** Interactive CD ROM allows students to manage hazards from the point of view of farmers, town planners, mayors, shopkeepers and other roles, based on limited resources and competing priorities.

**Water Water Everywhere** Secondary School Workbook on Floods for the Geography curriculum (Mid 1999).

## BOOKS AND PAPER-BASED RESOURCES

Dolan, Chris (1995) *Hazard-wise - Classroom resources for teachers on natural hazards and disasters*, Dickson ACT, Emergency Management Australia

Emergency Management Australia (1997), *Hazards, Disasters and Survival: A Booklet for Students and the Community*, Dickson ACT, Emergency Management Australia (Disaster Awareness Program)

Manuel, Mark et al (1997) *Hazards*, Melbourne, Cambridge University Press

Witham, Peter (1994), 'Crisis Prevention: Can Better Development Planning Lesson the Toll of Civil Emergencies and Natural Disasters?', Focus (Magazine of AusAID), June 1994, pp.30-31.

**Bushfires**

Australian Geographic, Number 37, Jan/Mar 1995

**Other sources**

*The Discovery Channel* on pay television

## Finding information

Students should seek a wide range of information from as many sources as possible. Care should be taken to consult the concerns of all the people involved in each issue to do with a hazard to ensure the best balance when making decisions.

Use an Internet Search site, like ANZWERS or Alta Vista (Australian) to try and find the the information you need.

A few such sites are listed on <http://www.ozemail.com.au/~bmcelroy/links.html#Search>