X SES



Emergency management of coastal hazards in NSW

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Overview

• Emergency Management Arrangements in NSW

- Prevention, Preparedness, Response, Recovery
- Storms, Floods and Tsunami
- Community engagement programs StormSafe, FloodSafe and TsunamiSafe

-	Cost of Na	ature	מ נוס וג	515	
Au	stralia's 10 worst natura	al disaste	rs		
2011	l adjusted dollar amounts Event	Year	Location	Loss (\$m)	Normalised loss* (\$m)
L	Hailstorms	1999	Sydney	1700	4296
2	Cyclone Tracy	1974	Darwin	200	4090
3	Earthquake	1989	Newcastle	862	3240
4	Flood	1974	Brisbane	68	2645
5	Flood	2010/11	QLD	2380	2380
6	Hailstorm	1985	Brisbane	180	2063
7	Ash Wednesday bushfires	1983	VIC/SA	176	1796
8	Severe storm	2007	NSW	1480	1742
9	Cyclone Madge	1973	QLD/NT/WA	30	1492
10	Cyclone Yasi	2011	QLD	1300	1352
*Los	as normalisation is used to estimate the es sustained if past events were to affer	*			77.574

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Table 1: Summary of deaths in natural hazards in Australia: 1788-2003.

Deadliest hazards

Peril	First recorded Death	Number of Deaths	% Total Deaths
Earthquake	1902	16	0.3
Landslide	1842	95	1.6
Bushfire	1850	696	11.4
Thunderstorm	1824	774	12.7
Tornado	1861	52	0.9
Cyclone	1839	2163	35.5
Flood	1790	2292	37.6
Tsunami		0	0.0
Total		6088	100.0
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Emergency Management **SES** in NSW

- Legislation (SERM Act, SES Act, LG Act, etc)
- Emergency Management Committees (EMPLAN)
- Combat agencies (Hazard sub plans)
- Functional areas (Functional area supporting plans)
- Supporting agencies
- Recovery Coordinator/Committees (Recovery Plan)
- Other related National, State and Local (DSC, FRM, CRM, BoM, LG, EP&A, ANZEMC, JATWC, ATAG, NFRAG, AGD EMA, AFAC)

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The NSW State **XSES** Emergency Service

- A volunteer emergency and rescue agency dedicated to assisting the community
- Founded in 1955 after disastrous floods over much of NSW
- Based on the concept of local expertise and resources
- 10,000 volunteers across the state, organised in 232 local units, grouped into 17 Regions. 250 staff.
- Roles of SES defined by legislation SES Act (1989)

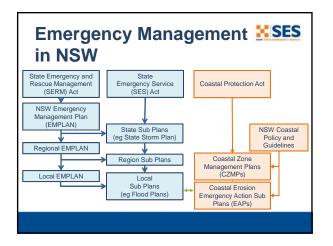
Roles and activities

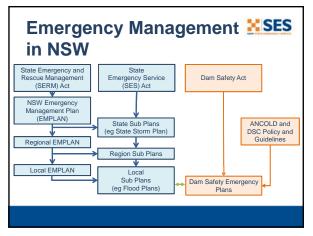
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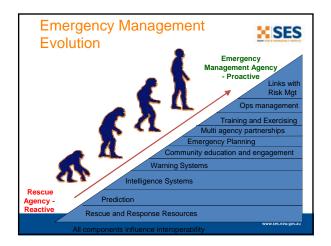
• Preparing for floods, storms and tsunami (training, planning)

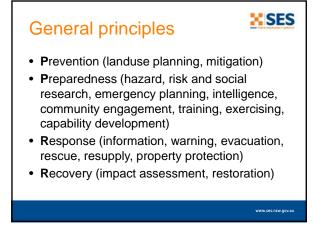
- Flood, storm and tsunami response
- · Community education about flood, storm and tsunami safety
- The majority of road-crash rescue outside metropolitan areas
- Bush search & rescue and vertical rescue
- Assistance to other services
- Community events

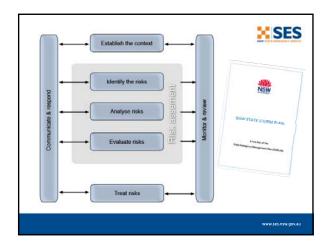


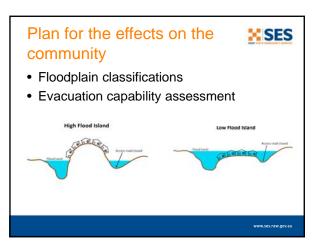


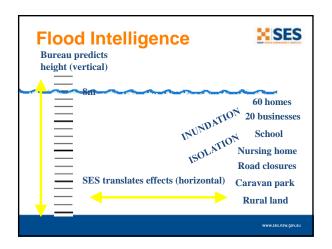




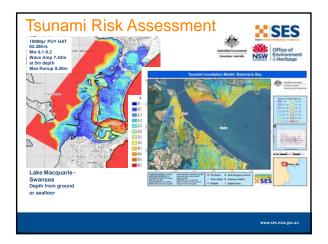


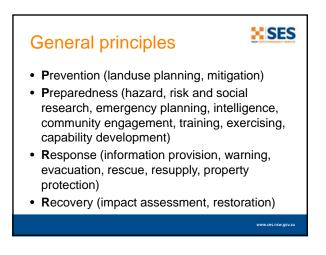


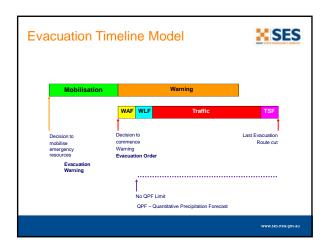


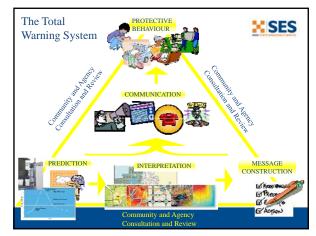


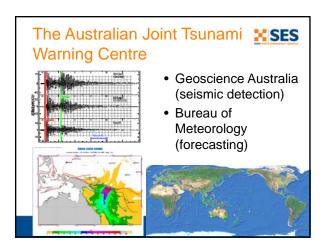














General principles

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- Prevention (landuse planning, mitigation)
- Preparedness (hazard, risk and social research, emergency planning, intelligence, community engagement, training, exercising, capability development)
- Response (information, warning, evacuation, rescue, resupply, property protection)
- Recovery (impact assessment, restoration)

Links

- NSW State Storm, Flood and Tsunami Plans www.emergency.nsw.gov.au
- NSW SES Coastal Erosion StormSafe Guide www.stormsafe.com.au
- OEH Guidelines available at www.environment.nsw.gov.au



