

Phases in Disaster Cycle	Task the benchmark is made for	Type (ML)
Prevention - Forecasting and Prediction	Drought forecasting [18]	multiclass (ordinal) classification
	Earth surface forecasting; extreme summer prediction; seasonal cycle prediction[22]	video prediction
Preparedness - Early warning	Wildfire spread prediction [16]	image segmentation
Preparedness - Monitoring and Detection	Building detection, road network extraction and then flood detection[14]	multi-class segmentation + binary classification
	Ground deformation [8]	binary classification
	Real-time wildfire smoke detection [11]	binary classification
	Disaster detection [23]	multiclass multilabel classification
	Disaster detection, damage detection, incident detection in scene-centric images [25]	multiclass classification
	Disaster detection [26]	multiclass multilabel classification
	Video Incident classification [24]	multiclass classification
	Flood detection [6]	binary classification
	Flood extent detection [12]	image segmentation
	Disaster type detection [3]	multiclass classification
Response - Damage assessment	Damage severity assessment [3]	multiclass (ordinal) classification
	Change detection and damage assessment of buildings [13]	multiclass (ordinal) classification
	Damage assessment [10]	semantic segmentation
	Damage assessment of buildings [27]	image segmentation, multiclass (ordinal) classification
	Damaged Building Detection [9]	image segmentation + multiclass (ordinal) classification
	Post Flood Scene Understanding (Flood detection, distinguishing different water bodies and flood)[21]	image classification, semantic segmentation task, and visual question answering
	Damage assessment [17]	Semantic segmentation; multilabel classification
	Damage severity assessment [20]	multiclass (ordinal) classification
	Damage assessment [19]	multiclass classification
Response - Post-disaster Coordination and Response	Categorization of humanitarian tasks [4]	multiclass classification
	Informativeness classification; Categorization of humanitarian tasks; Damage severity assessment [2]	binary classification; multiclass classification; multiclass (ordinal) classification
	Informativeness classification [3]	binary classification
	Categorization of humanitarian tasks [3]	multiclass classification
	Informativeness detection; categorization of humanitarian tasks [5]	binary classification; multiclass classification
Recovery	Sentiment analysis [15]	multiclass multilabel classification
Miscellaneous (Preparedness - Monitoring and Detection; Response - Post-disaster Coordination and Response)	Road passability assessment, flood detection and flood classification [7]	multilabel classification
Miscellaneous (Preparedness - Monitoring and Detection; Response - Post-disaster Coordination and Response; Response - Damage assessment)	Disaster type detection; Informativeness classification; Categorization of humanitarian tasks; Damage severity assessment [1]	multitask learning

Table 1: Task and type of benchmark datasets for Natural disaster

Note: This table has a brief summary of all the papers of reviewed in this site. We encourage you to read the original

paper(referenced in the table) if you're interested in that benchmark dataset.

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