Dataset for natural disaster management segmentation:

1. fires ( classes : “no fire”, “small”, “medium” and “big” fires.  )

<https://www.researchgate.net/publication/280047557_Automatic_fire_pixel_detection_using_image_processing_A_comparative_analysis_of_Rule-based_and_Machine_Learning-based_methods>

classes : Red, Orange, Yellow ( smoke or no smoke) –

[https://data.mendeley.com/datasets/gjmr63rz2r/1 4](https://data.mendeley.com/datasets/gjmr63rz2r/1%204)

NUMBER 2 - DONE

classes : fire, not fire

not label, only pictures – (80:20) – does not have a json file.

<https://arxiv.org/pdf/1909.12937.pdf> (just for the classes)

<https://www.sciencedirect.com/science/article/pii/S0379711217302114>

<http://cfdb.univ-corse.fr/index.php?menu=1> Corsican fire database – used in different papers (need access) label, has masks – need access

=> just fires.

<https://www.forestryimages.org/> (fires) – not label - does not have a json file.

<https://ieee-dataport.org/open-access/flame-dataset-aerial-imagery-pile-burn-detection-using-drones-uavs#files> ! ( fire – non fire) label, has masks

3. flood

<https://github.com/cvjena/eu-flood-dataset> not label -does have a json file.

flooding or not

NUMBER 3

<https://www.kaggle.com/saurabhshahane/roadway-flooding-image-dataset>

label, has masks (black ones)

<https://ieee-dataport.org/open-access/sen12-flood-sar-and-multispectral-dataset-flood-detection> label, has masks – need access

Overall:

<https://zenodo.org/record/3888300#.YZYgoGBBxPa>– not label - does not have a json file

<http://incidentsdataset.csail.mit.edu/#dataset-section> - <https://github.com/ethanweber/IncidentsDataset> (needs request) - label, has masks = Requested data

<https://drive.google.com/drive/folders/1VvkBRIYW6oD31K3gkPk4-4nlGE2poXFU> not label - does not have a json file DONE

<https://crisisnlp.qcri.org/crisis-image-datasets-asonam20> - not sure DONE

<https://www.researchgate.net/publication/351406359_RescueNet_Joint_Building_Segmentation_and_Damage_Assessment_from_Satellite_Imagery> label, has masks (black ones)

(Post disaster)

Possible classes:

Earthquake

Fire

Flood

Hurricane

Not disaster

Other disaster

Big Fire

Small Fire

Post – Flood

People

Drought

Building disasters?

<https://www.researchgate.net/publication/350808212_Social_Media_Images_Classification_Models_for_Real-time_Disaster_Response>

=> classes ( efficientNet())

=> <https://crisisnlp.qcri.org/crisis-image-datasets-asonam20>