



Space Application Matrix

Demo

SPACE APPLICATION MATRIX

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Space Application Matrix

Current Status

Content

- Content compilation is on a good way for some categories
- Still need more content / papers / publications
- **You can contribute!**

Implementation

- Still under technical development due to little technical resources
- First working version of the SAM, thanks to [Brian Tomaszewski](#)
- **You have knowledge in Flash / Drupal / PHP?**

Contribution

- Online form for content contribution
<http://bit.ly/sam-contribution>



Space Application Matrix

Legend / Products

- **RM:** Risk Map
- **BAM:** Burn Area Map
- **D & M:** Detection & Monitoring
- **FCM:** Forest Change Monitoring
- **DAM:** Damage Assessment Map
- **LuCM:** Land use Change Map
- **VM:** Vulnerability Map
- **IM:** Inundation Map
- **HM:** Hazard Map
- **R & M:** Reconstruction Monitoring
- **FRM:** Flood Risk Monitoring
- **RPM:** Recovery Progress Map
- **3D_DVA:** 3D Damage Visualization and Animation
- **DSM:** Dust Storm Monitoring
- **OSD:** Oil Spill detection
- **OSRM:** Oil Spill Risk Map
- **OWPM:** Open Water Pollution Map
- **FDAM:** Forest Damage Assessment Map
- **IDAM:** Infrastructure Damage Assessment Map
- **EHRM:** Extreme Heat Risk Map
- **UCRA:** Urban Classification for Risk Analysis
- **VAM:** Volcanic Activity Monitoring
- **VT:** Volcanic Topography
- **TADMGV:** Thermal Anomalies Detection for Monitoring Global Volcanism
- **VCM:** Volcanic Cloud Monitoring
- **SDD:** Sulfur Dioxide Detection
- **VDA:** Vegetation Damage Assessment
- **LHA:** Landslide Hazard Assessment
- **LM:** Landslide Monitoring
- **DIM:** Drought Index Map
- **DIM_SMM:** DIM for Soil Moisture Monitoring
- **DIM_VM:** DIM for Vegetation Monitoring
- **IDRM:** Infectious Diseases Risk Map
- **NEEL:** Nuclear Explosion Epicenter Localization
- **DP:** Damage Profiles
- **DF:** Detection & Forecast
- **LHM:** Locust Habitat Map



Space Application Matrix

Earth Observation / Remote Sensing

Disaster Type	Fire	Tsunami	Flood	Earthquake	Volcano	Mass Movement
Disaster Management Phase						
Mitigation	<ul style="list-style-type: none"> • RM 	<ul style="list-style-type: none"> • DAM • RM • LuCM • VM • IM 	<ul style="list-style-type: none"> • IM • DAM • RM • FRM 	<ul style="list-style-type: none"> • 3D_DVA • UCRA 	<ul style="list-style-type: none"> • VAM • VT 	<ul style="list-style-type: none"> • LHA • LM
Preparedness	<ul style="list-style-type: none"> • RM 	<ul style="list-style-type: none"> • HM • VM • IM • RM 	<ul style="list-style-type: none"> • DAM • IM 		<ul style="list-style-type: none"> • TADMGV • VCM • VAM 	<ul style="list-style-type: none"> • LHA
Response	<ul style="list-style-type: none"> • BAM • D & M 	<ul style="list-style-type: none"> • DAM • IM • VM 	<ul style="list-style-type: none"> • DAM • IM 	<ul style="list-style-type: none"> • DAM 	<ul style="list-style-type: none"> • SDD • VAM 	<ul style="list-style-type: none"> • DAM
Recovery	<ul style="list-style-type: none"> • BAM • FCM 	<ul style="list-style-type: none"> • DAM • IM • R & M 	<ul style="list-style-type: none"> • DAM • IM • RPM 	<ul style="list-style-type: none"> • DAM • R & M 	<ul style="list-style-type: none"> • VDA 	<ul style="list-style-type: none"> • DAM



Space Application Matrix

Earth Observation / Remote Sensing II

Disaster Type	Drought	Epidemic	Pollution	Severe Storm	Extreme Temperature	Insect Infestation
Disaster Management Phase						
Mitigation	<ul style="list-style-type: none"> • DIM • DIM_SMM • DIM_VM • RM • VM 	<ul style="list-style-type: none"> • IDRM 	<ul style="list-style-type: none"> • DSM • OSD • OSRM • OWPM 	<ul style="list-style-type: none"> • DP 	<ul style="list-style-type: none"> • EHRM 	<ul style="list-style-type: none"> • LHM
Preparedness	<ul style="list-style-type: none"> • DIM • DIM_SMM • DIM_VM • RM 	<ul style="list-style-type: none"> • IDRM 	<ul style="list-style-type: none"> • DSM 	<ul style="list-style-type: none"> • D & F 		
Response	<ul style="list-style-type: none"> • DIM • DIM_SMM • DIM_VM 		<ul style="list-style-type: none"> • NEEL • OSD 	<ul style="list-style-type: none"> • FDAM • IDAM 		<ul style="list-style-type: none"> • FCM
Recovery				<ul style="list-style-type: none"> • FDAM • IDAM • RPM 		<ul style="list-style-type: none"> • FCM



Space Application Matrix

Satellite Navigation

Disaster Type	Fire	Tsunami	Flood	Earthquake	Volcano	Mass Movement
Disaster Management Phase						
Mitigation				<ul style="list-style-type: none">• Risk Management & Forecast	<ul style="list-style-type: none">• Deformation Monitoring	
Preparedness		<ul style="list-style-type: none">• Early Warning Systems				
Response	<ul style="list-style-type: none">• GPS Positioning					
Recovery						



Space Application Matrix

Satellite Navigation II

Disaster Type						
Disaster Management Phase	Drought	Epidemic	Pollution	Severe Storm	Extreme Temperature	Insect Infestation
Mitigation				• Forecast		
Preparedness						
Response						
Recovery						



Space Application Matrix

Satellite Communication

Disaster Type	Fire	Tsunami	Flood	Earthquake	Volcano	Mass Movement
Disaster Management Phase						
Mitigation						
Preparedness		<ul style="list-style-type: none">• Early Warning Systems				
Response	<ul style="list-style-type: none">• Satellite Phone• VSAT• Telemedicine					
Recovery						



Space Application Matrix

Satellite Communication II

Disaster Type						
Disaster Management Phase	Drought	Epidemic	Pollution	Severe Storm	Extreme Temperature	Insect Infestation
Mitigation						
Preparedness						
Response				<ul style="list-style-type: none">• Satellite Phone• VSAT• Telemedicine		
Recovery						



Space Application Matrix

Content Contribution

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Title of your contribution: *

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Content Contribution II

Define main type of the paper →

Define

•Space Technology →

•Human Aspects →

•Disaster Type →

•Disaster Management Cycle Phase →

Category: *
Disaster Type related

▼ Vocabularies

Space Technology:
- None -
EO/RS
SATCOMM
SATNAV
Please specify, which space technology is described in the paper you would like to contribute. Press and hold the 'Ctrl'-key to select multiple items.

Human Aspects:
- None -
Critical Infrastructure
Health
Humanitarian Aid
Security
Please specify the human aspects (if given) related to this content. Press and hold the 'Ctrl'-key to select multiple items.

Disaster Type: *
Complex Emergency
Drought
Earthquake
Epidemic
Extreme Temperature
Fire
Flood
Insect Infestation
Mass Movement
Please specify the type of disaster (if given). Press and hold the 'Ctrl'-key to select multiple items.

Disaster Management Cycle Phase:
- None -
Mitigation
Preparedness
Recovery & Reconstruction
Relief & Response
Please specify the disaster management cycle phase related to your paper. Press and hold the 'Ctrl'-key to select multiple items.



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Content Contribution III

Please provide us with a short summary of your contribution. →

Brief description of your contribution: Split summary at cursor

- Allowed HTML tags: `<a>` `` `` `<cite>` `<code>` `` `` `` `<dl>` `<dt>` `<dd>` `<h1>` `<h2>` `<h3>` `<h4>` `<h5>` `` `<p>` `<i>` `<hr>` `<strike>` `<sub>` `<sup>` `<table>` `<tr>` `<td>` `<tbody>` `<thead>`
- Lines and paragraphs break automatically.
- Web page addresses and e-mail addresses turn into links automatically.
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- Web page addresses and e-mail addresses turn into links automatically. (Better URL filter.)
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*United Nations Platform for Space-based Information for
Disaster Management and Emergency Response*

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Contact us

Questions, problems, other ways of contribution?

Content Contributions / Miscellaneous

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Technical Issues / Implementation

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Online Contribution

<http://bit.ly/sam-contribution>

<http://www.un-spider.org>



Joint Board of Geospatial Information Societies

United Nations Office for Outer Space Affairs

Geoinformation for Disaster and Risk Management

Examples and Best Practices





The Value of Geo-Information for Disaster and Risk Management (**VALID**) – *Working title*

