

**UNIT: NATURAL DISASTER.**  
**SUBUNIT: PREVENTION NATURAL DISASTER**

**TEACHER: YESKENDIROVA ZH.ZH.**

## NEW WORDS

weather satellites -	метеорологические спутники системы
emergency alert systems -	аварийного оповещения
seismic surveillance networks -	сейсмические наблюдения сети
flood levees & floodplains -	дамбы наводнений и поймы
portable solar power-	портативные солнечной энергии
Drones -	дроны
spectrometry kits & water filters -	спектрометрические наборы и фильтры для воды
weather radar -	погодный радар
heartbeat detector -	детектор сердцебиения
virtual 3D city models &	виртуальные 3D модели городов и устойчивые к
disaster-resistant structures -	стихийным бедствиям структуры

## Disaster-relief/prevention Technologies

weather satellites	check for & record activity in the Earth's crust	
emergency alert systems	for finding trapped people	
seismic surveillance networks	track weather pattern	
flood levees & floodplains	control flood water levels	
portable solar power	provides off-the-grid power	
drones	testing a city's ability to deal with disasters & safe buildings	
spectrometry kits & water filters	radar that detects precipitation	
weather radar	for testing water quality & removing dirt/pollutants	
heartbeat detector	warn people of events	
virtual 3D city models & disaster-resistant structures	remote-powered aircraft	

#	Speaking Criteria	Alem									
1	student presents 3 logical supporting arguments										
2	student uses at least 5 subject-specific words										
3	student uses at least 4 functional language units										
4	student applies subject-verb agreement correctly										
5	students debate / discuss for 4 minutes minimum										



# HEARTBEAT DETECTOR



# EMERGENCY ALERT SYSTEMS

EMERGENCY ALERT

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WEATHER WARNING FROM  
THE NATIONAL WEATHER  
SERVICE

- - - - OR - - - -

URGENT MESSAGE FROM  
YOUR LOCAL CIVIL  
AUTHORITIES

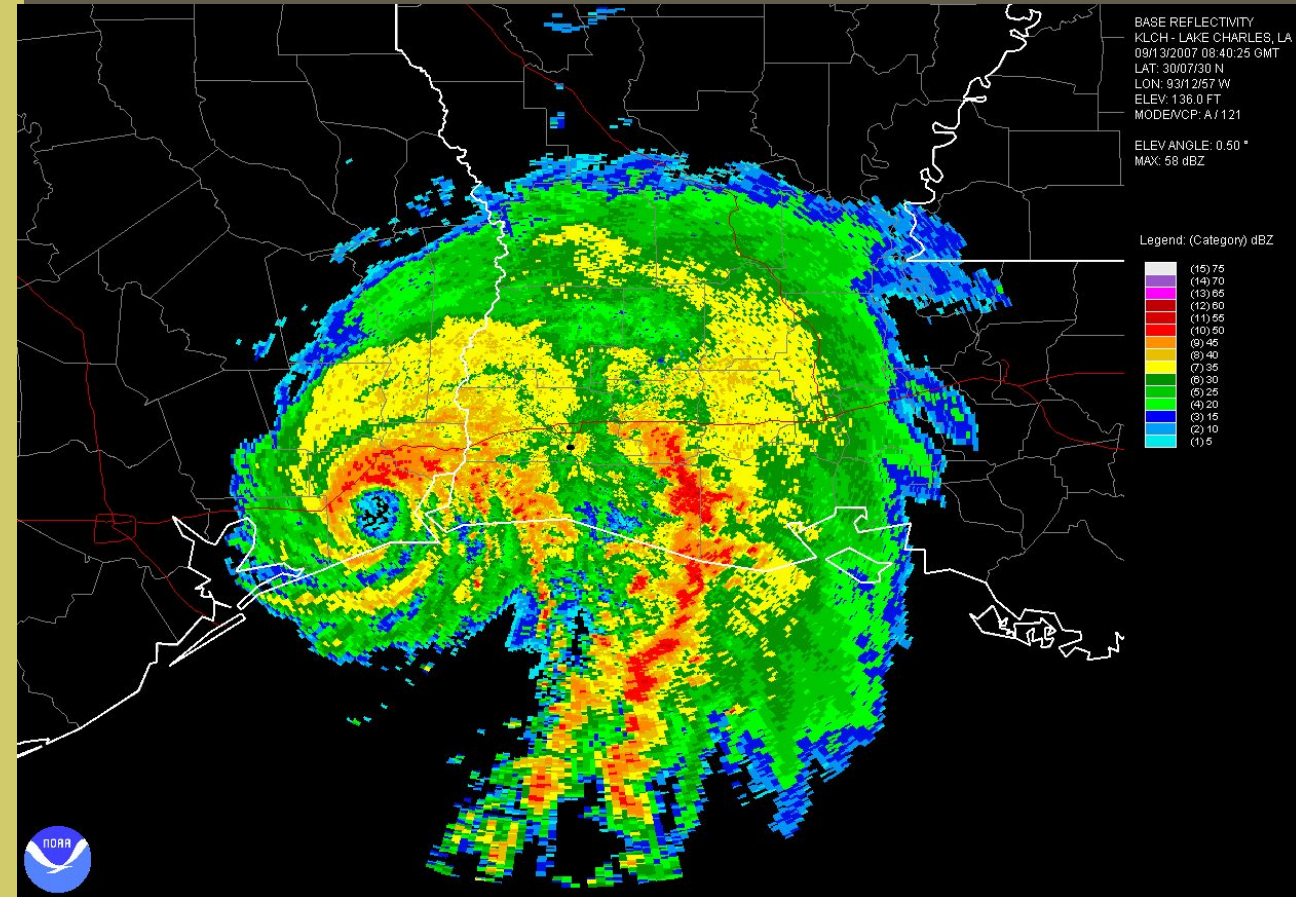
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PLEASE LISTEN  
AND FOLLOW INSTRUCTIONS



DRONE



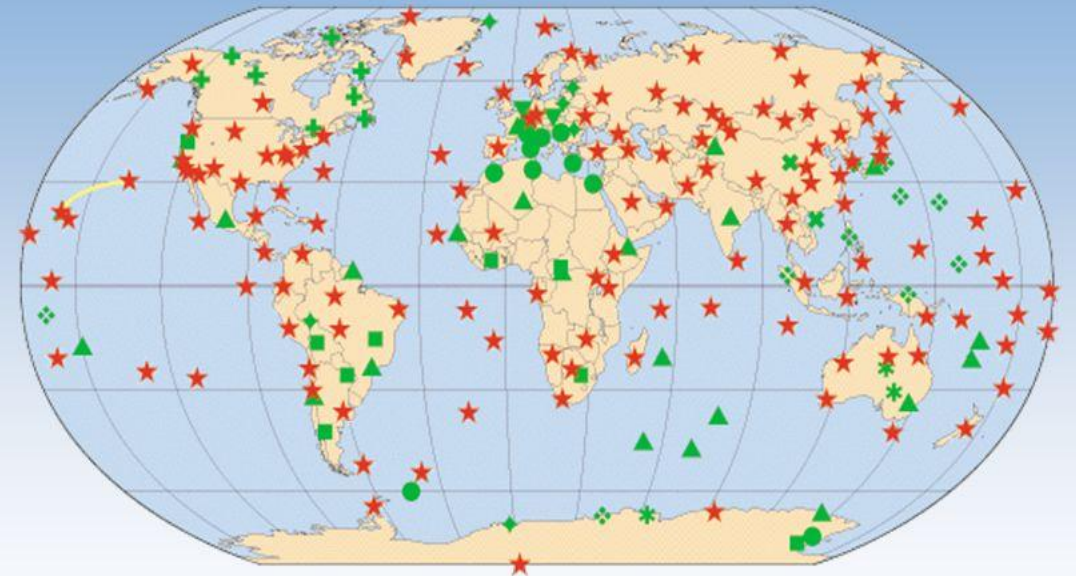
# WEATHER RADAR





# SEISMIC SURVEILLANCE NETWORKS

GSN & FEDERATION OF DIGITAL BROADBAND SEISMIC NETWORKS (FDSN)



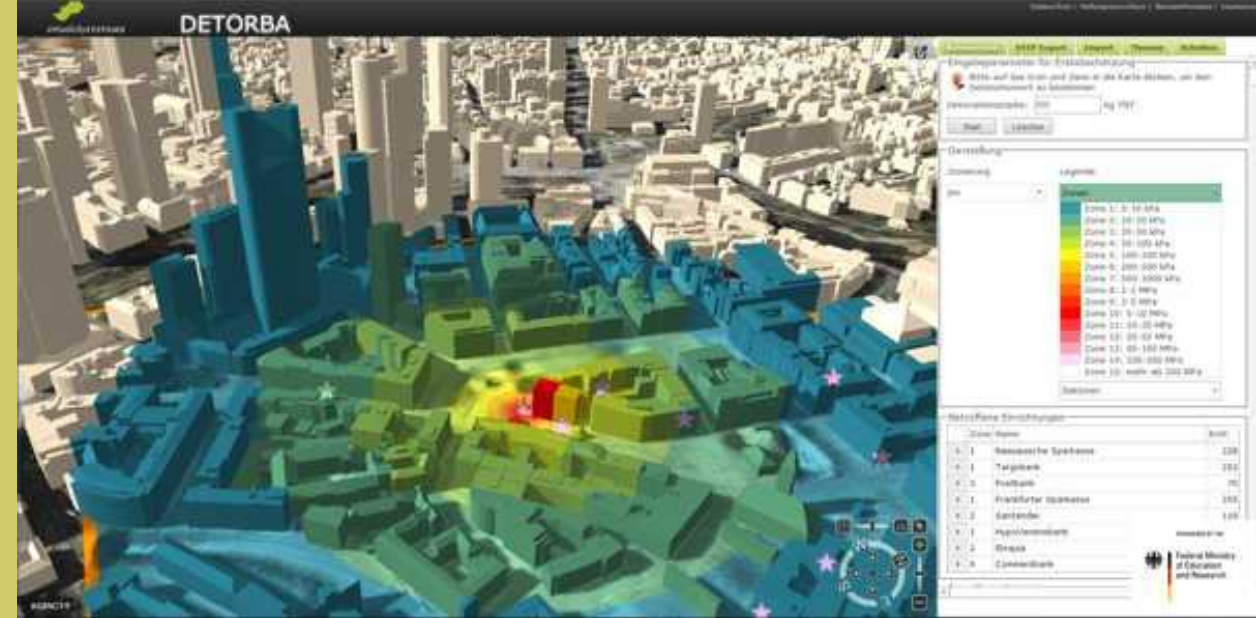
- IRIS GSN
- France
- Japan
- Italy
- Germany
- China
- Australia
- U.S.
- Canada
- Other

# PORTABLE SOLAR POWER

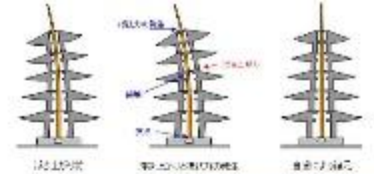
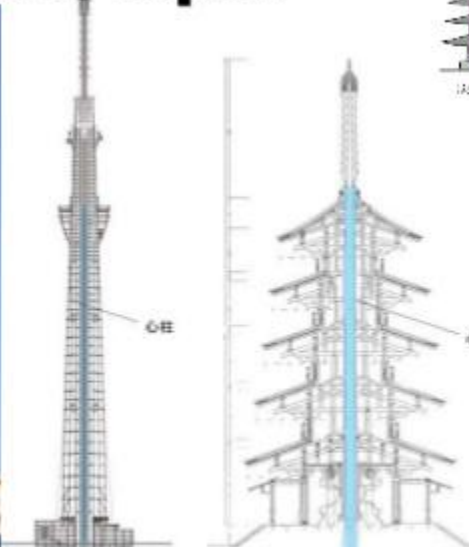




# VIRTUAL 3D CITY MODELS & DISASTER-RESISTANT STRUCTURES

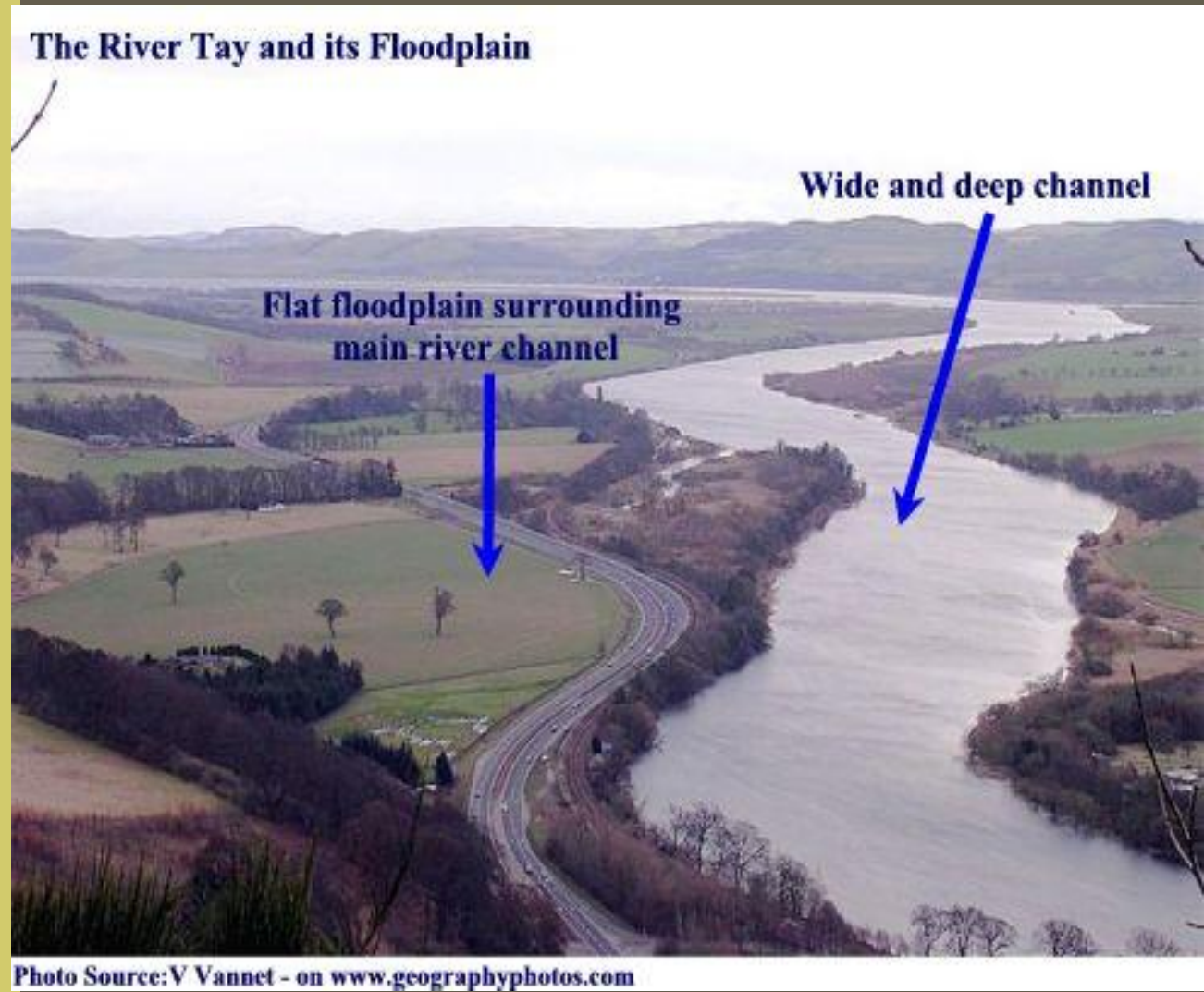


## Tokyo Skytree, Japan



A reinforced concrete core runs through the heart of the structure core-wall construction to increase seismic performance at lower cost

# FLOOD LEVEES & FLOODPLAINS



# WEATHER SATELLITES





# SPECTROMETRY KITS & WATER FILTERS

