

Homework Questions #3-SRTM and SEDAC

Answer the following questions based upon the presentation materials from week 3 of the Advanced Flood Management Webinar.

- 1) The Shuttle Radar Topography Mission (SRTM) flew in the following year
a) 2012 b) 2002 c) 2000
- 2) The SRTM provides the following quantity
a) Flood Depth b) Digital Elevation c) Surface Inundation
- 3) The SRTM data are available in the following resolution
a) 30 m b) 250m c) 1 km
- 4) The units of the SRTM output is
a) meter b) vertical meter c) kilometer
- 5) SRTM data are available in 1°x1° tile
a) True b) False
- 6) The following web-tool allows access to the SRTM data
a) GDEx b) GFMS c) DFO
- 7) SRTM data can be obtained as GeoTIFF
a) True b) False
- 8) NASA Socioeconomic data can be obtained from the following site:
a) SEDAC b) LPDAAC c) GDEx
- 9) Which of the following socioeconomic data can be most useful for flood relief planning?
a) Population Density b) Oil Spill c) Water Quality Index
- 10) Synthetic Aperture Radar (SAR) measures radiation in microwave frequency
a) True b) False
- 11) SAR can see through clouds
a) True b) False
- 12) ALOS-2 SAR data can provide flood potential at this resolution:
a) 12 m b) 12 km
- 13) SAR data latency is less than a day
a) True b) False
- 14) SAR cannot provide measurements at night.
a) True b) False

- 15) There are multiple SARs flying on more than one satellite
a) True b) False