Satellite detected water over Garsen Sub County, Tana River County

This map illustrates satellite-detected flood water extent over Garsen, Magarini, Malindi and Lamu West Sub Counties, Kenya. The analysis was conducted analyzing Sentinel-1 image acquired on the 4 May 2018. Within the extent of the map more than 25,000 ha of land appear to be inundated and around 20,000 people are living inside this flood water extent. Within the map extent, around 13,000 ha of inundated land are located inside Garsen sub county, potentially affecting 5,000 people. It is likely that flood waters have been systematically underestimated along highly vegetated areas along main river banks and within built-up urban areas because of the special characteristics of the satellite data used. This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR UNOSAT.

Legend
- Settlement
- Primary road
- Secondary road
- Reference water
- Satellite detected water as of 4 May 2018
- Sub county boundary
- International boundary

Map Scale for A3: 1:550,000

Analysis conducted with ArcGIS v10.4.1
Coordinate System: WGS 1984 UTM Zone 37N
Projection: Transverse Mercator
Datum: WGS 1984
Units: Meter

Production: UNITAR - UNOSAT

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<table>
<thead>
<tr>
<th>County</th>
<th>Sub County</th>
<th>Inundated area (ha)</th>
<th>Potentially affected population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kilifi</td>
<td>Magarini</td>
<td>4,736</td>
<td>5,061</td>
</tr>
<tr>
<td></td>
<td>Malindi</td>
<td>1,972</td>
<td>3,972</td>
</tr>
<tr>
<td>Lamu</td>
<td>Lamu West</td>
<td>4,686</td>
<td>3,267</td>
</tr>
<tr>
<td>Tana River</td>
<td>Garsen</td>
<td>12,898</td>
<td>4,933</td>
</tr>
</tbody>
</table>