Initial Analysis results of Forest fire Situation in Philippines using ALOS-2/PALSAR-2

Japan Aerospace Exploration Agency (JAXA)
Remote Sensing Technology Center of Japan (RESTEC)
### Introduction

- Summary of data used in this analysis.
- We use L1.5 data in this analysis.

<table>
<thead>
<tr>
<th></th>
<th>Obs. Date</th>
<th>Mode</th>
<th>Satellite/Sensor</th>
<th>Pol.</th>
<th>Flight Direction</th>
<th>Off-nadir angle</th>
<th>Beam Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-disaster</td>
<td>2015/06/15</td>
<td>FBD</td>
<td>ALOS-2/PALSAR-2</td>
<td>HH+HV</td>
<td>Descending</td>
<td>36.2</td>
<td>Right</td>
</tr>
<tr>
<td>Post-disaster</td>
<td>2016/04/04</td>
<td>FBD</td>
<td>ALOS-2/PALSAR-2</td>
<td>HH+HV</td>
<td>Descending</td>
<td>36.2</td>
<td>Right</td>
</tr>
</tbody>
</table>
Philippine forest fires analysis results

- Use the observation data of April 4, 2016 and June 15, 2015, it was to create an RGB color composite image and the polarization composite image.

- From an image, Confirmed the change in around the Apo mountain. However, it cannot judge to be a change by the forest fire. Causes of the changes except the forest fire include a change of the vegetation.

- Observed LANDSAT-8 image on April 5, 2016, it was not possible to check the spread of fire place is covered in clouds.
Confirmed a red or light blue change in around the Apo mountain. However, it cannot judge to be a change by the forest fire.
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