UTILIZATION OF PISAR L-2 DATA FOR LAND COVER CLASSIFICATION IN FOREST AREA USING PIXEL-BASED AND OBJECT-BASED METHODS

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Tujuan: to explored the utilization of full polarization PiSAR-L2 data for land cover classification in forest area of Indonesia using two classification method, pixel-based method and object-based method

Method: 1. Data preparation (Backscatter conversion, Landcover identification)
2. Backscatter profile for each land cover
3. Classification (pixel based and object based method)
4. Accuracy evaluation

Result:

1. PISAR-L2 can be used to accurately map land cover in forest area
2. utilization of texture features can rise the accuracy, especially between forest and acacia plantation
3. Pixel based method showed detail information of the objects but has many “salt and pepper”, in other hand object based method showed good accuracy and accurate border but has some mis-interpretations in object identification.