عنوان فارسی مقاله:
ارزیابی C باند SAR دو-فصلی کاملا-پلاریمتری برای نقشه‌برداری پوشش گیاهی در تالاب دشت سیلابی (varzea) آمازون

عنوان انگلیسی مقاله:
Dual-season and full-polarimetric C band SAR assessment for vegetation mapping in the Amazon várzea wetlands

توجه!
این فایل تنها قسمتی از ترجمه میباشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
5. Conclusion

Our results show that single-season full-polarimetric SAR can achieve classification accuracies that are similar or, in some cases, higher to those achievable by dual-season dual-pol SAR classifications, especially during the high water season ($\kappa = 0.7–0.8$; $AD = 3–5\%$ and $QD = 10–15\%$). Therefore, the use of PolSAR images may reduce the need for multiple season imagery, reducing overall acquisition costs and enabling detailed assessment of vegetation cover at any chosen period of the hydrological cycle.

Still, várzea plant communities are very similar in terms of structure and phenology, and dual-seasonal PolSAR data was capable of achieving the highest classification accuracies for all classes, combining the better structural discrimination achieved by PolSAR with the hydrological and phenological information brought by dual-season data. Model-based decompositions and, to a lesser degree, the linear polarizations present in the C-matrix stood as the most accurate polarimetric descriptors for discriminating land cover and vegetation classes in várzea floodplains, for both single and dual-season images.