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Title./Titre./Titel **Cloud Cover Impact Analysis on LANDSAT Data from Brazil.**

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Abstract./Sommaire./Zusammenfassung: Data registered by orbital sensors are strongly affected by the atmosphere between the sensors and the ground surface. Clouds, particularly, are major constraints on earth-viewing satellite systems operating in the visible and infrared bands, sensibly diminishing their potential value. Therefore, in analysis of required temporal resolution for specific applications, the *effective temporal resolution* has to be calculated taking into consideration cloud coverage. The objective of this study has been the analysis of the impact of cloud cover on the utilization of LANDSAT data by month and covering all regions of Brazil and classified according to their potential and real use. Brazil has considerable cloud cover throughout the year, as indicated by meteorological statistical data. Preliminary results indicate that effective use of LANDSAT in Brazil is much lower than it has been anticipated. This fact is based on the analysis of nine years of data collected by the LANDSAT satellites.