In this talk, we will prove the observability estimates on the Eculeadian set minus tube for several linear differential operators. First, we briefly review the results on the observability estimates and their relationship to the control problem. We then introduce some recent developments on the observability estimates on noncompact sets. Then we present our main result.

This talk is based on our joint work with Fabricio Maci¥`a and Shu Nakamura.