

## ST19/PS16 Session Introduction

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The new century has attended the maturation of a new class of ENA sensors that are actually flying or are scheduled to fly around various solar system planets, both magnetized and non-magnetized. For the first time, we can now start comparing empirical simulations, models, and observations of significantly different space plasma environments, in order to evaluate the improvements obtained from this new approach. We wish to highlight advantages and disadvantages with respect to traditional in-situ observational techniques, so that this session will first focus on the various environments actually explored or to be explored in the near future through ENA emission. Finally, the most recent improvements on ENA sensor designs will be highlighted.