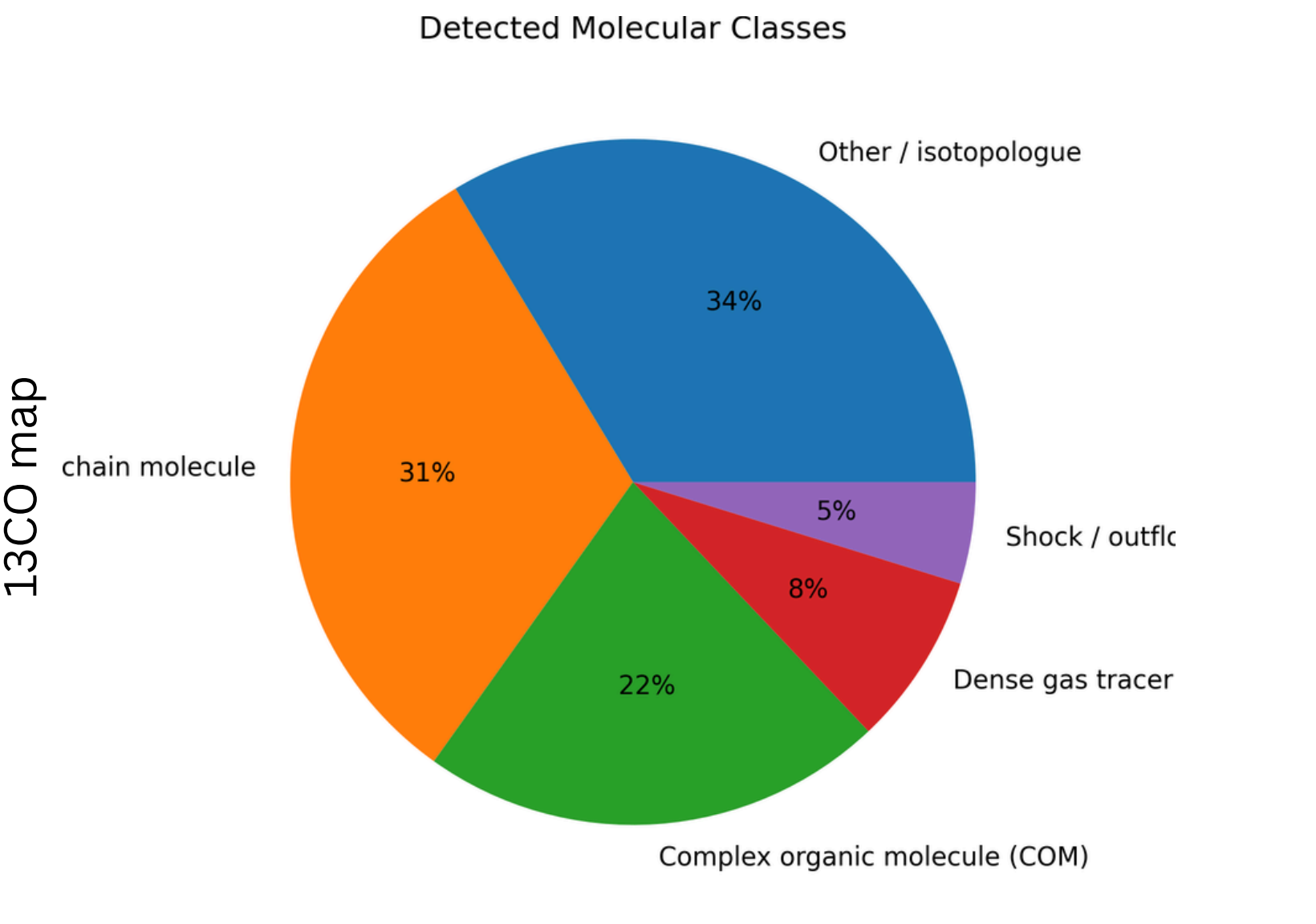
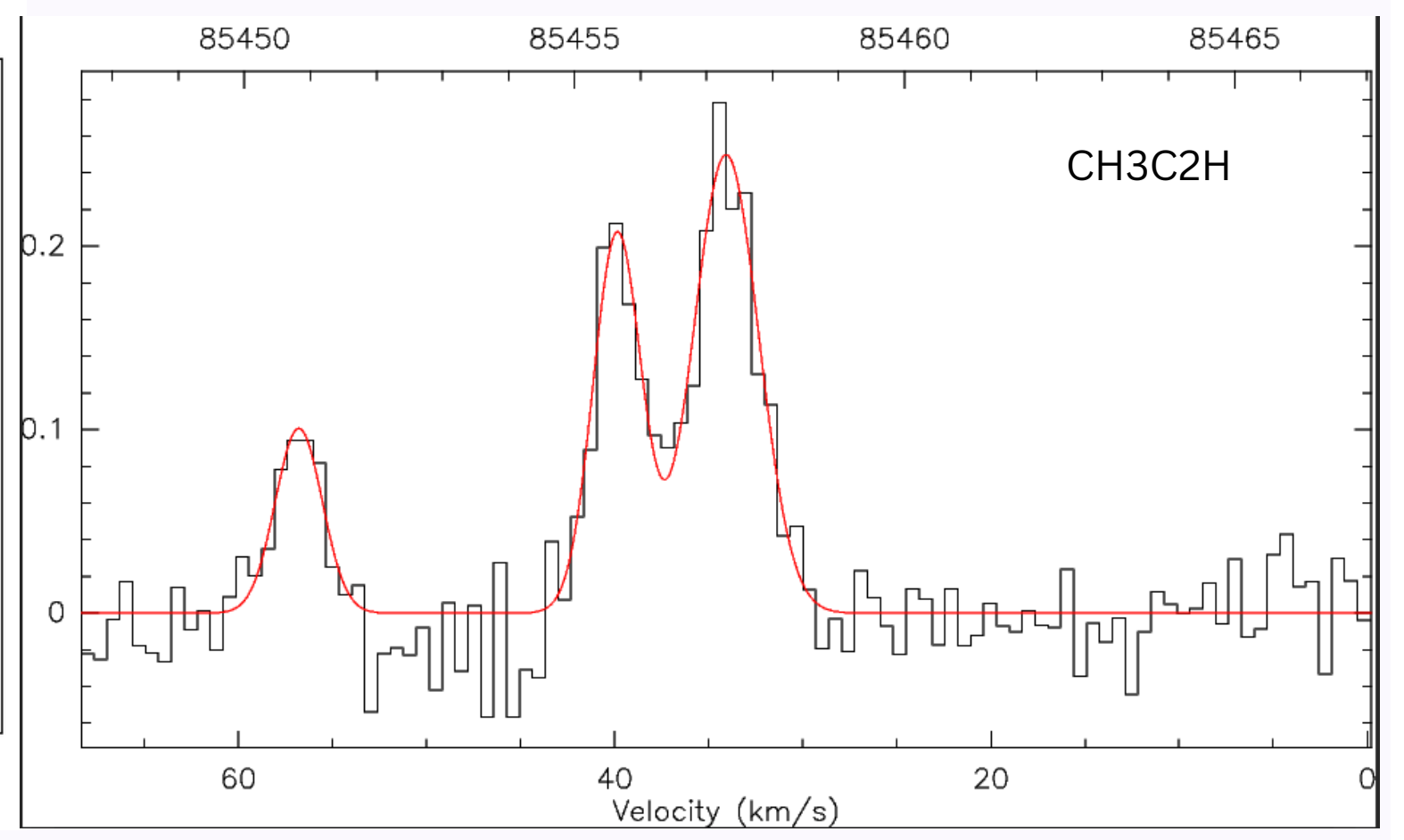
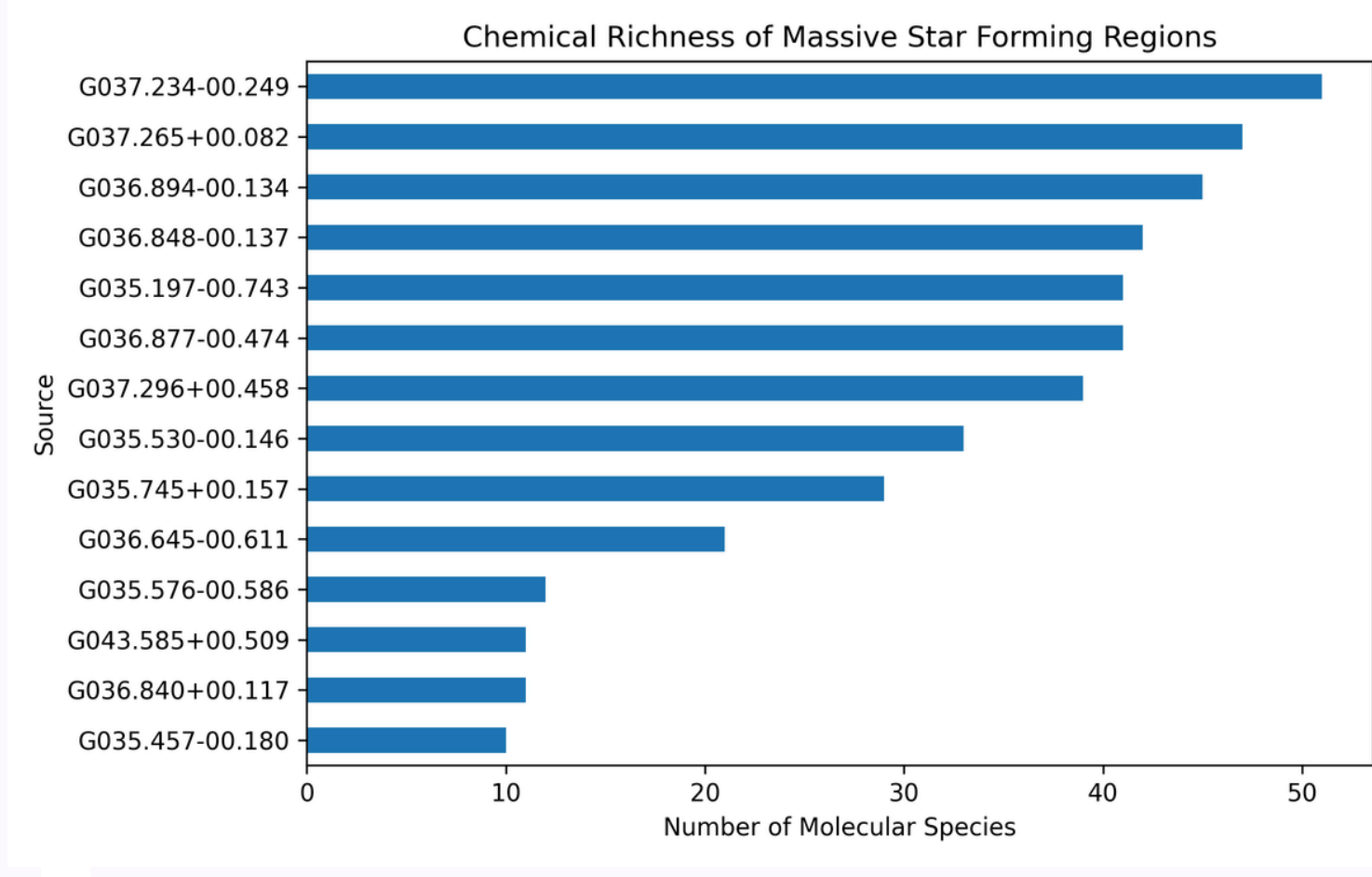


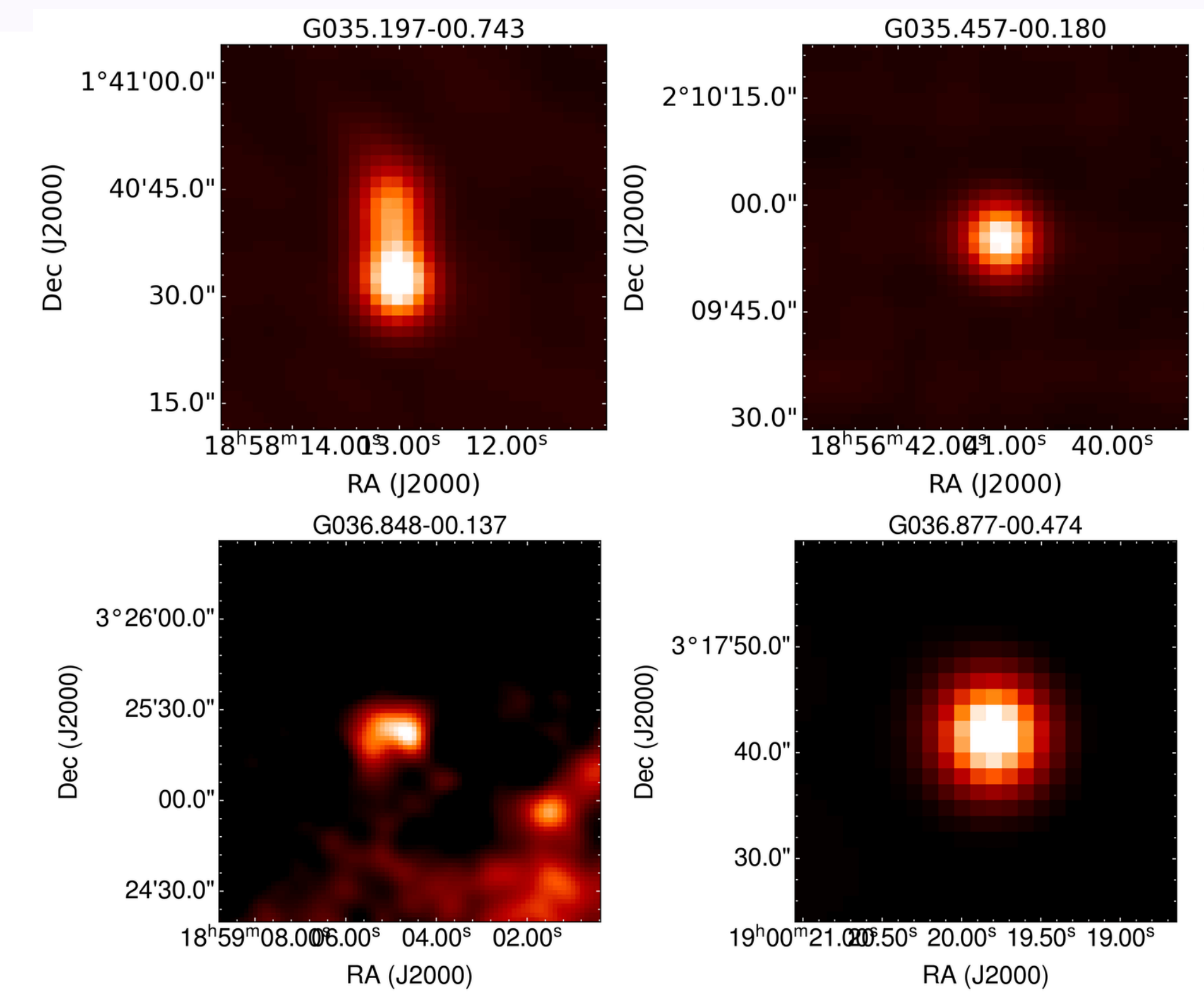
## Brief Introduction

In preparation for the development of an observational strategy for spectral line studies of massive star-forming regions with the Africa Millimetre Telescope (AMT), we conducted observations of candidate H II regions using the IRAM 30m telescope. We present preliminary results from these observations, focusing on the molecular content, gas kinematics, and chemical complexity of the sources.

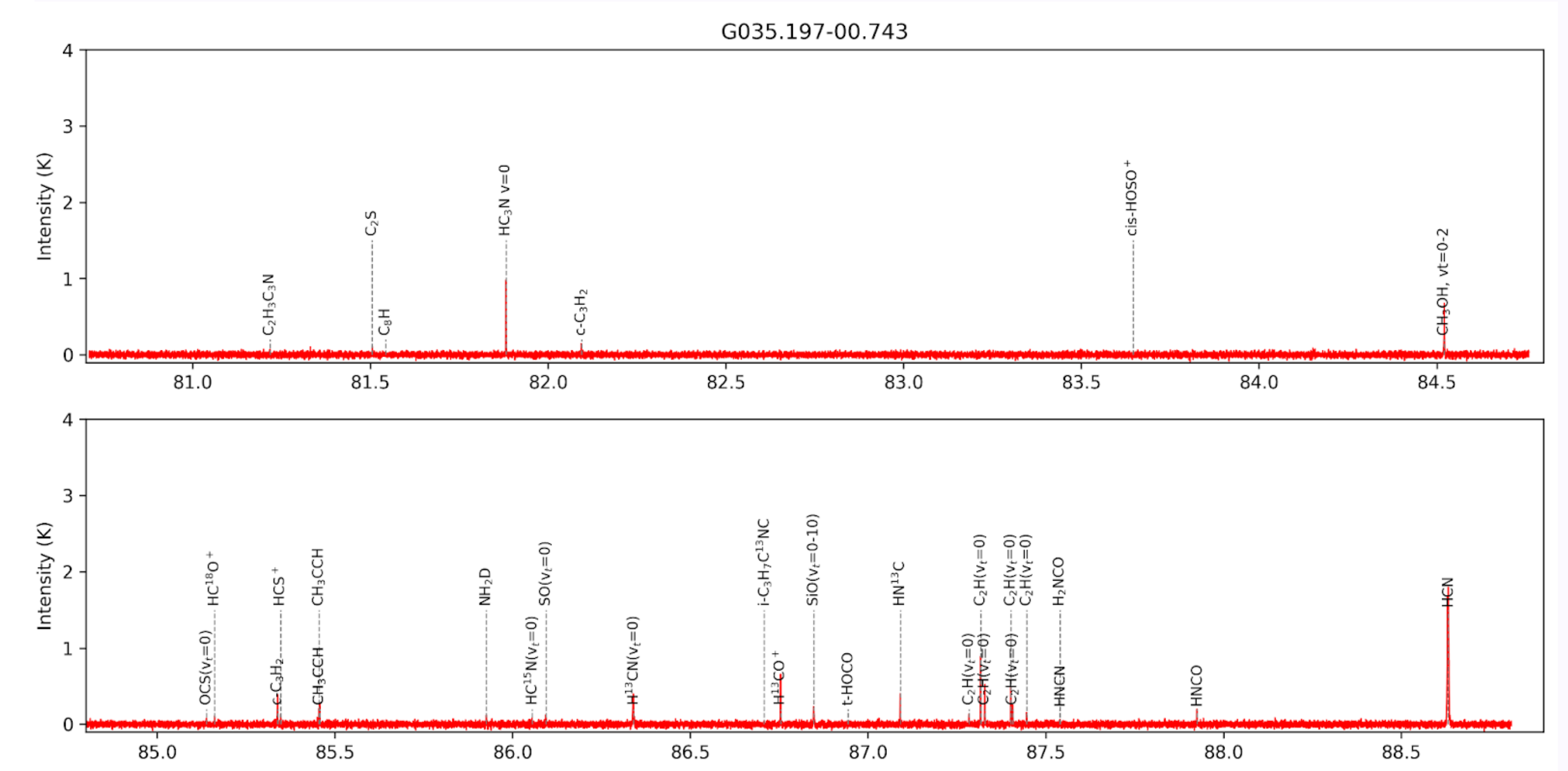
## Preliminary Results



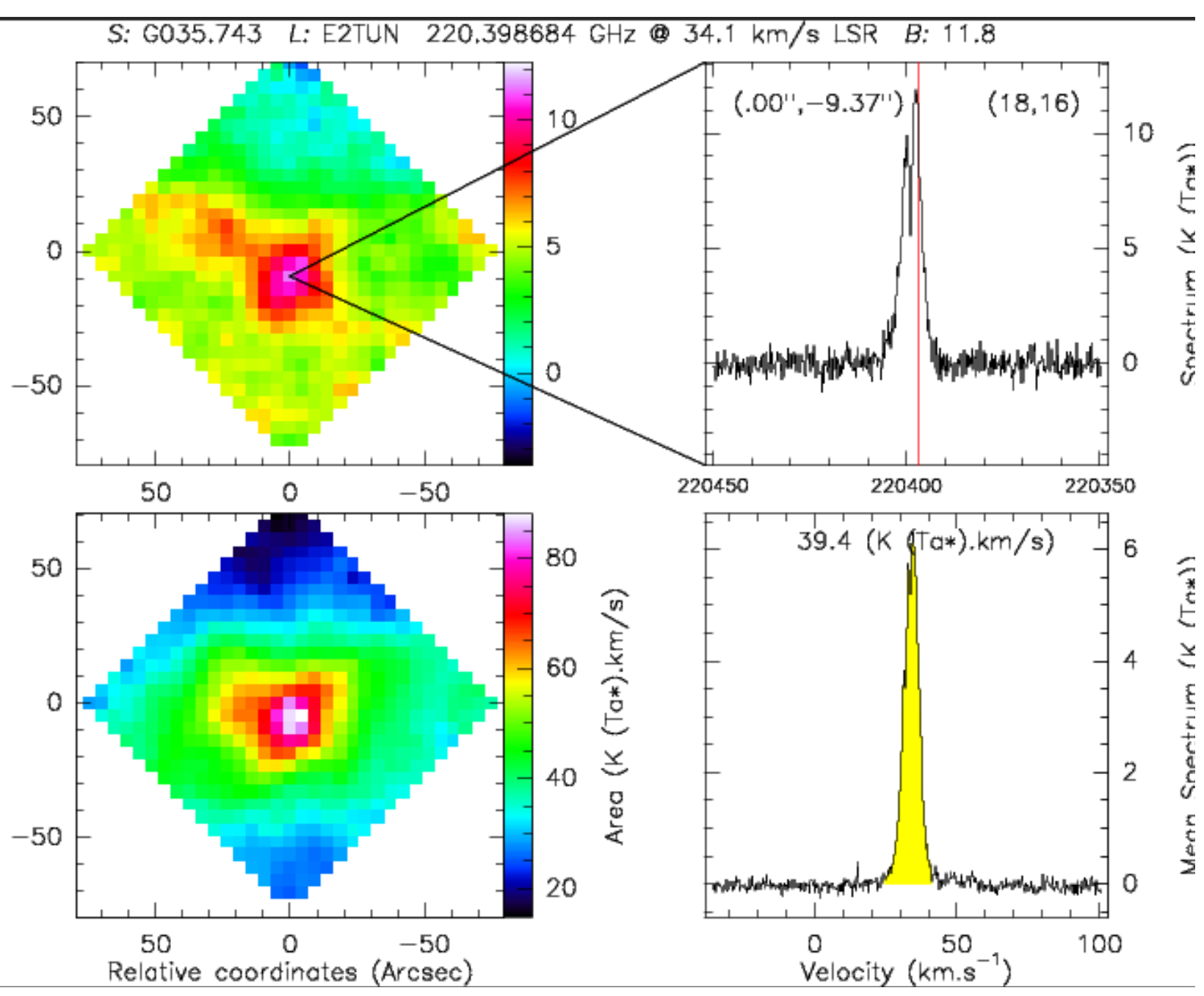
Left: The number of lines increases with evolution. Right: CH3C2H line showing a double peak profile.



Meerkat images of Candidates HII Region



Lines detected in G035.197-00.743 using Gildas-Class software.



- ### Follow up Work
- SMA observation in 4 candidates for:
- Identification of multiple embedded cores;
  - Determination of rotation or infall signatures;
  - Mapping of outflow morphology