

# “MAPSO” **MAP**ping **Sgr B2** and **O** Orion star forming regions (A *Herschel* OPEN TIME KEY PROGRAM. **POSTER 57**)

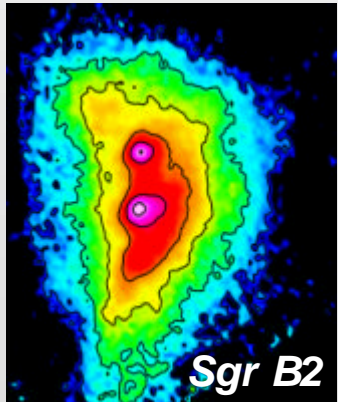


Coordinator: **J. CERNICHARO** (DAMIR, CSIC, Madrid) on behalf of the **MAPSO** team.

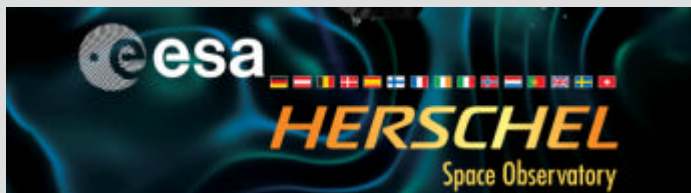
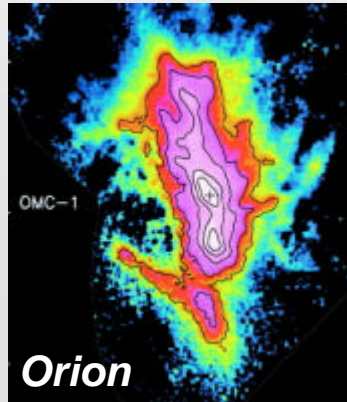
“Widespread gas & dust sets the initial conditions for star formation”

**OBJETIVE:** large scale molecular content + gas properties of the 2 most important SFRs :  
**COHERENT + HOMOGENEOUS MOLECULAR/DUST DATABASE**

7'x7'



8'x20'



## MAPSO SUBSECTIONS:

- \* Large scale **HIFI** water maps (several lines). Chemistry of Oxygen
- \* **HIFI** and **PACS** [CII] and [OI] maps.
- \* Maps of the ionized component ([OIII], [NIII] and [NII])
- \* **HIFI** maps of selected key species (OH, CH<sup>+</sup>, HD, H<sub>3</sub>O<sup>+</sup>, H<sub>2</sub>D<sup>+</sup>, ... + byproducts = high excitation lines of CO, HCN, HCO<sup>+</sup>, CN, NH<sub>3</sub>, SO<sub>2</sub>, ...)
- \* Polarization measurements with **HIFI**. (OH)
- \* **PACS** full coverage line surveys.
- \* **SPIRE** SEDs and low resolution maps.

**Herschel time ~ 350-400 hours**