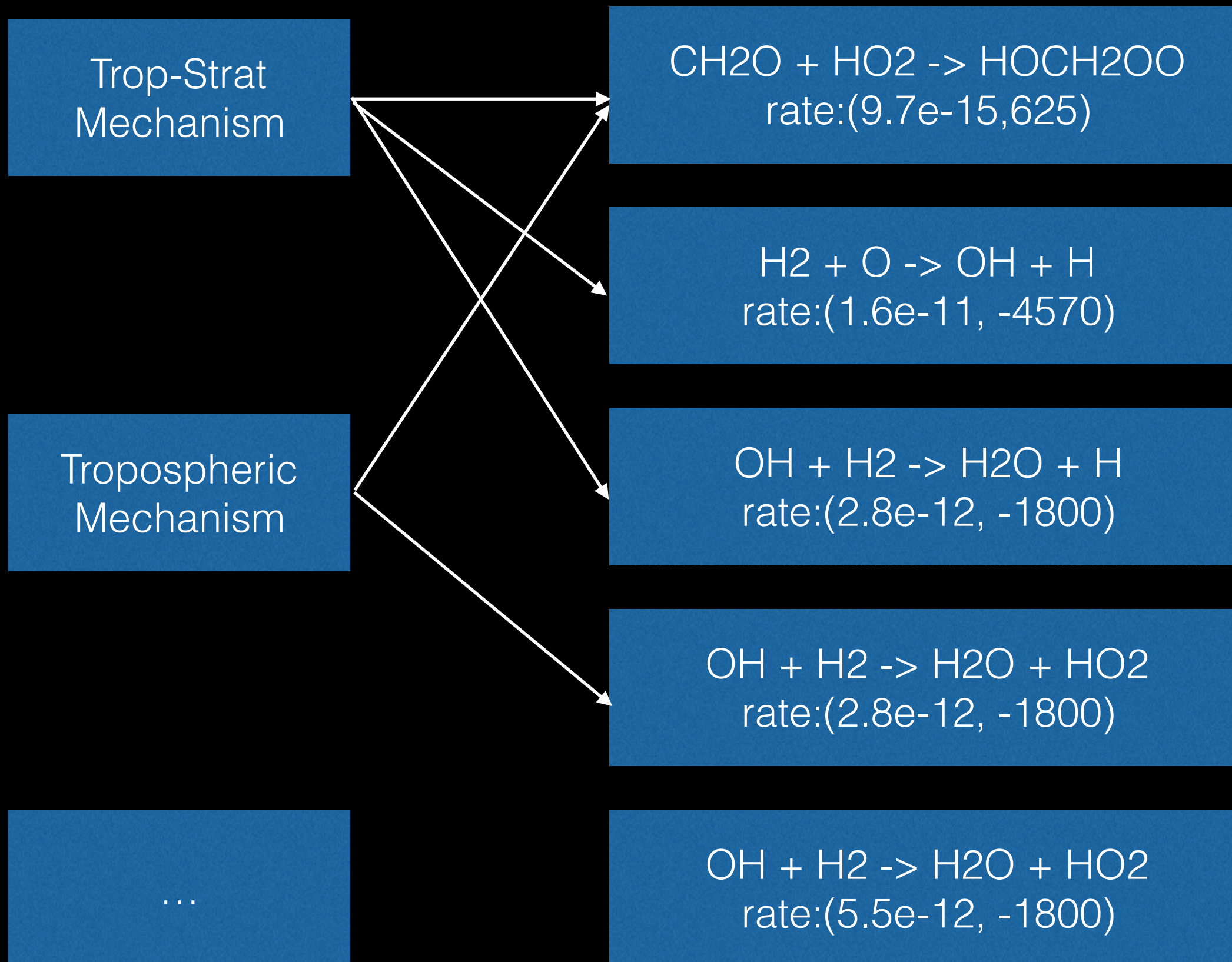


Chemistry Café

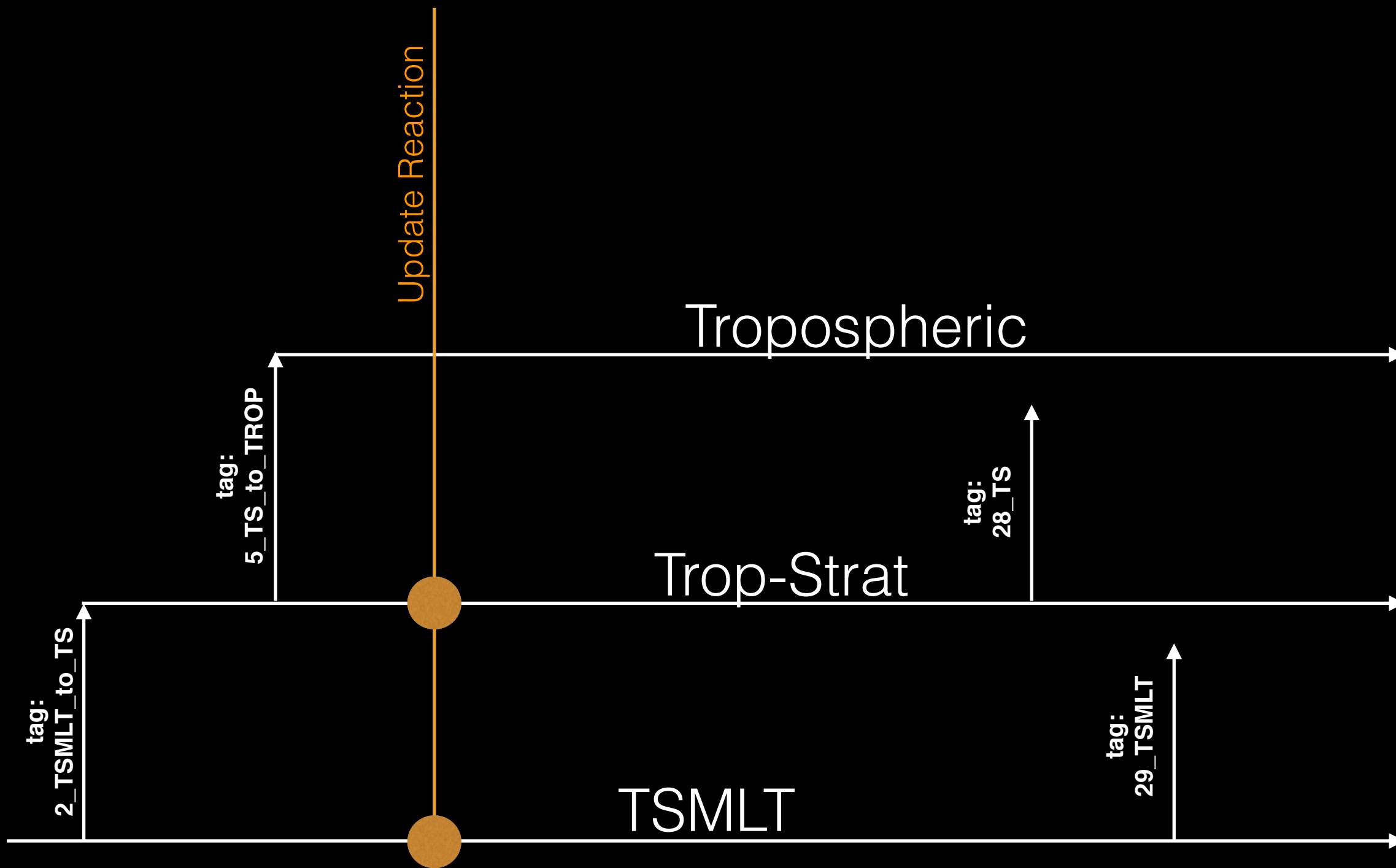
- Unify updates of chemical reactions
- Track changes to Mechanisms (Tags)
- Mechanism reports for preprocessors
 - KPP
 - CESM chemistry preprocessor
- Comments and references for reactions, species, tags
- Species data as well (tracking unclear)

Mechanisms are collections of reactions



Versioning: Mechanisms and Tags

- Mechanisms change when a reaction is edited
- Tags do not change when a reaction is edited
- Tags are a snapshot of a mechanism at some point in time
- A new mechanism is created from a tag of another mechanism



Edit Reaction

(what the Café does for the user)

- Copy **old reaction** -> **new reaction**
- User edits **new reaction**
- Move all Mechanism pointers to **new reaction**
- Leave all Tag pointers with **old reaction**
- **old reaction** and **new reaction** stay in the database