P5281: Speed Dependent Voigt Database using Dual Comb Absorption of H₂O from 6650-7540 cm⁻¹ and up to 1100 K

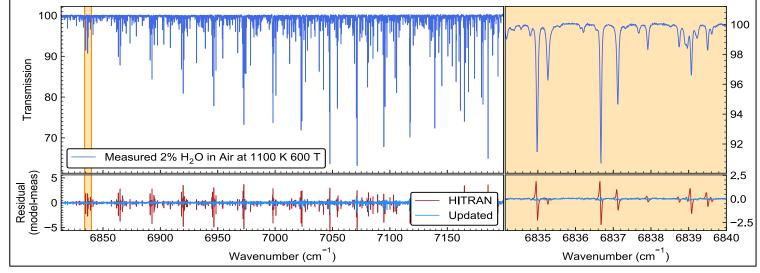
Scott Egbert^a, Nathan Malarich^a, David Yun^a, Keeyoon Sung^b, Sean Coburn^a, Brian Drouin^b, Gregory Rieker^a - ^aUniversity of Colorado Boulder and ^bJet Propulsion Laboratory

Creating a water database based on HITRAN using dual comb laser measurements from 6650-7540 cm⁻¹

- 28 datasets of pure H₂O
 - 300-1100 K
 - 1-16 Torr
- 28 datasets of 2% H₂O in air
 - 300-1100 K
 - 40-600 Torr

Have processed 6800-7200 cm⁻¹

Largest updates are to air pressure shift for high temperature lines



	Parameter	number of
		features
Pure Water	Line Position, v	2298
	Line Strength, S ₂₉₆	2309
	qSDVP Self Widths, γ_{self} n_{self} $a_{w,self}$	541
	Self Pressure Shift, δ_{self} δ'_{self}	254
	"New" Features	76
Air- Water	qSDVP Air Widths, γ _{air} n _{air} a _{w,air}	478
	Air Pressure Shift, δ_{air} δ'_{air}	454

