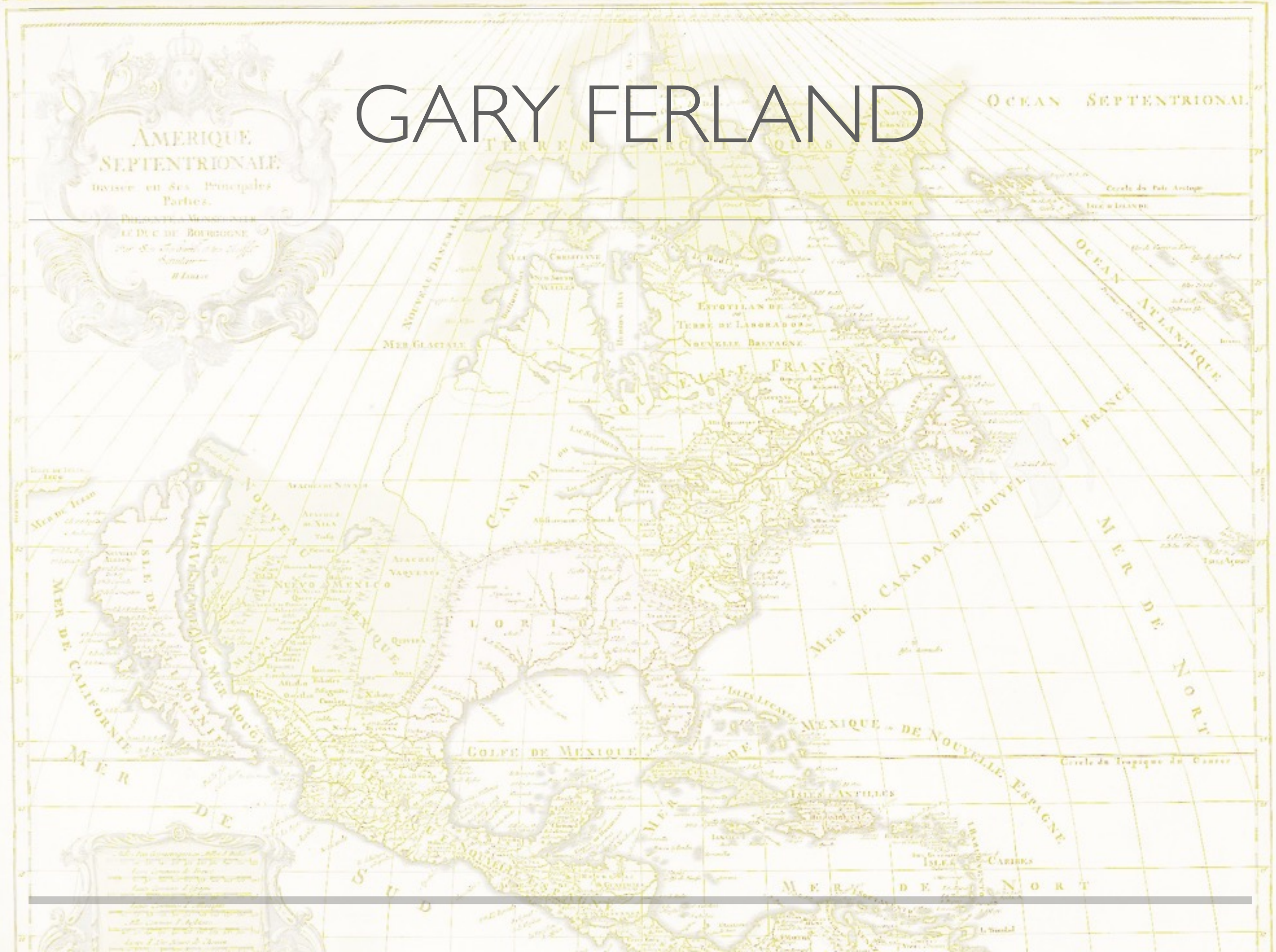


# GARY FERLAND





# GARY FERLAND



Captain of the *Cloudy* exploration ship



# CLOUDY AT 10



From left to right, Jack Baldwin, Peter Martin, and Gary Ferland, the occupants of room 5 in the Institute of Astronomy's Hoyle Building in mid 1978.



In late summer of 1988. From left to right, Hagai Netzer (the father of Cloudy's old friend ION), Gary Ferland, Cloudy, and Jack Baldwin.



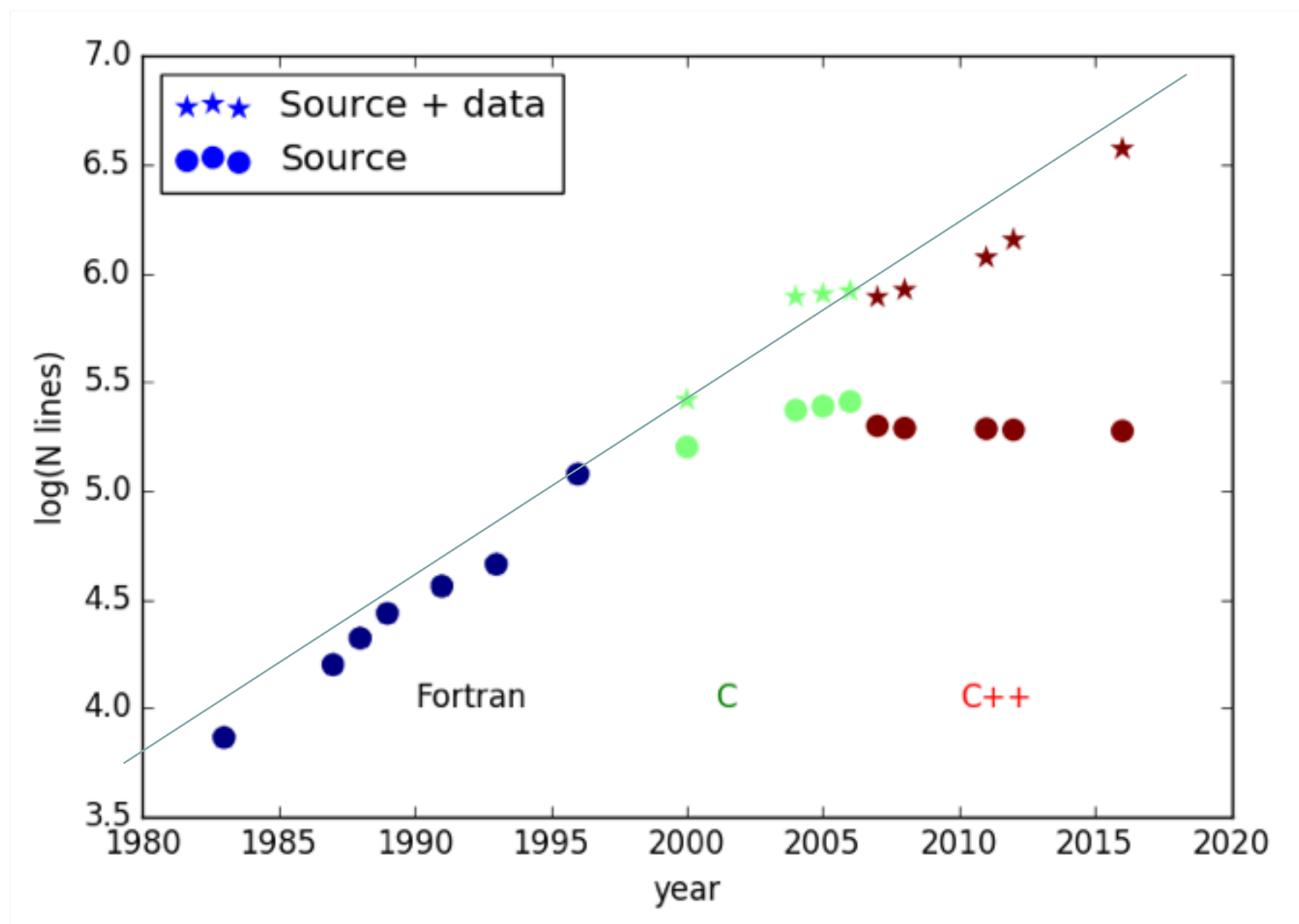


# CLOUDY AT 21

Tom Troland, Gary Ferland, and Jack Baldwin in front of a simulation of Cloudy.



## SIZE EVOLUTION





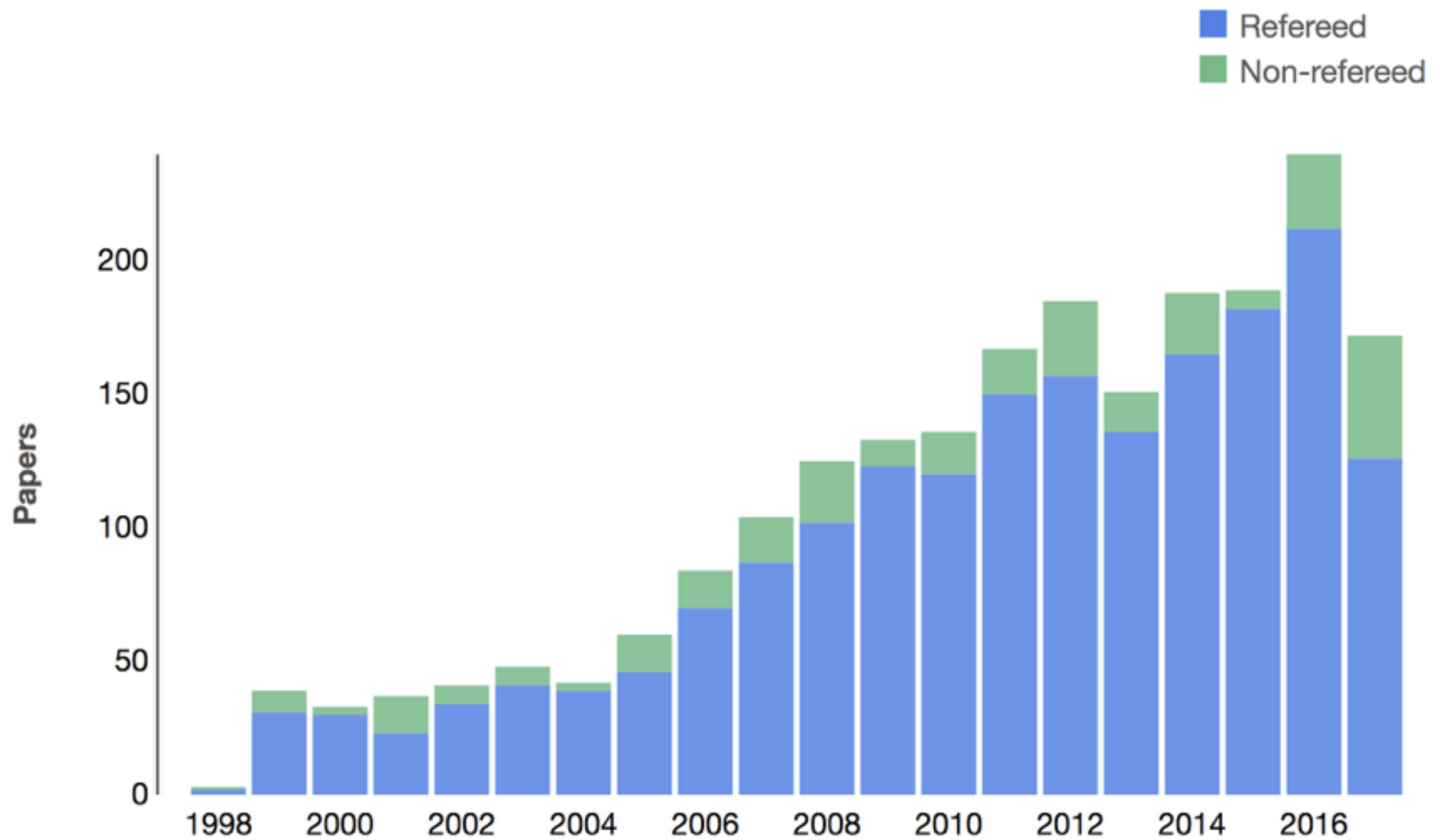
# NOW CLOUDY IS 39

- 200,000 lines of code
- 3,500,000 lines of data
- Would be 1850 boxes of 2,000 punched cards each!





citations(2013RMxAA..49..137F) OR citations(1998PASP..110..761F)  
2181 citations (2017, July 13)





# HAZY, THE CLOUDY'S BEST FRIEND

From Gaseous Nebulae to Quasars

## CLOUDY FOR DUMMIES

A Reference  
for the  
Rest of Us!

Everything You  
Always Wanted  
to Know About  
ISM

By Kentucky Ionized  
Chicken Editors





# ABSTRACT: « CLOUDY »

Concept Cloud: terms frequently found in the abstract of papers citing Cloudy

measurements star-forming  
ratio relation rate high optical  
emission find metallicity effects  
evolution ionization lines range redshift  
agn models time outflow AGN  
large halo iii star density fraction  
formation study stellar derived  
results gas observed properties  
mass galaxies sample  
simulations regions different predicted  
data  
luminosity present radiation more velocity  
significant