Searching for New X-ray Binaries in M33

Pre-MAP 2014

Kristen Garofali & Professor Ben Williams

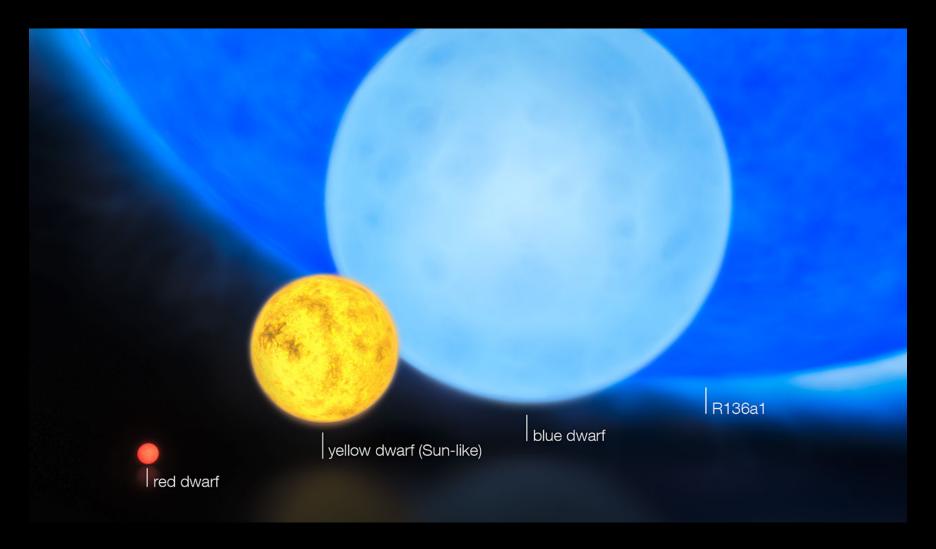
Binary Stars



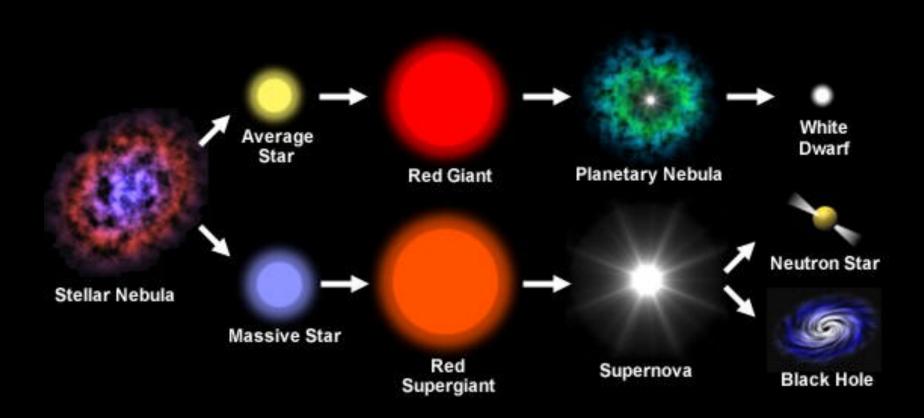
Current FPS: 392.43

Average FPS: 392.88 Worst FPS: 325.674 ISI ms Best FPS: 403.94 I ms Triangle Count: 476

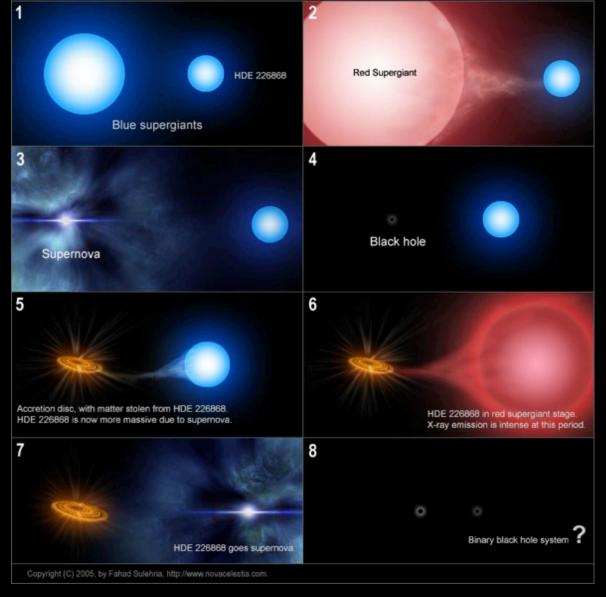
Stellar Mass



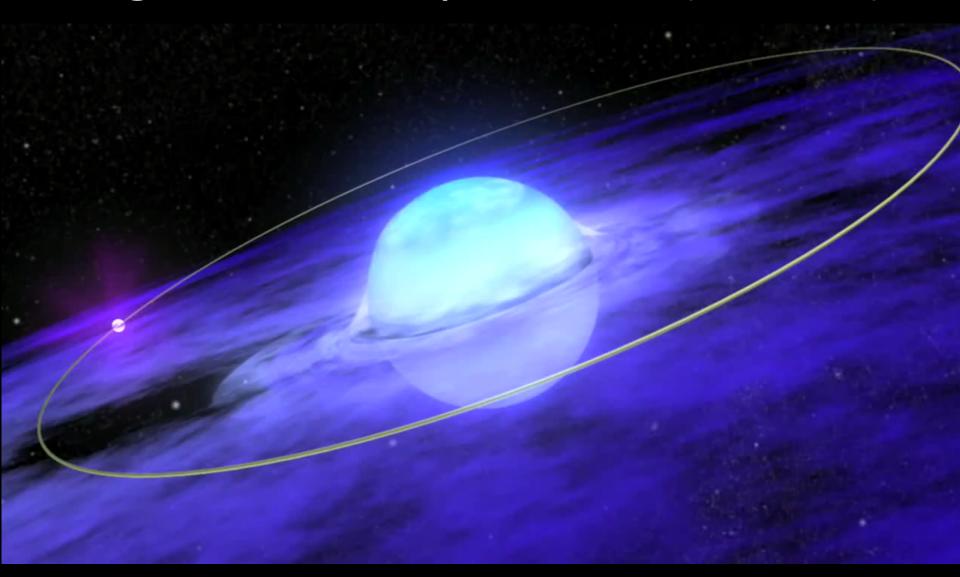
Stellar Evolution



Binary Evolution: X-ray Binaries



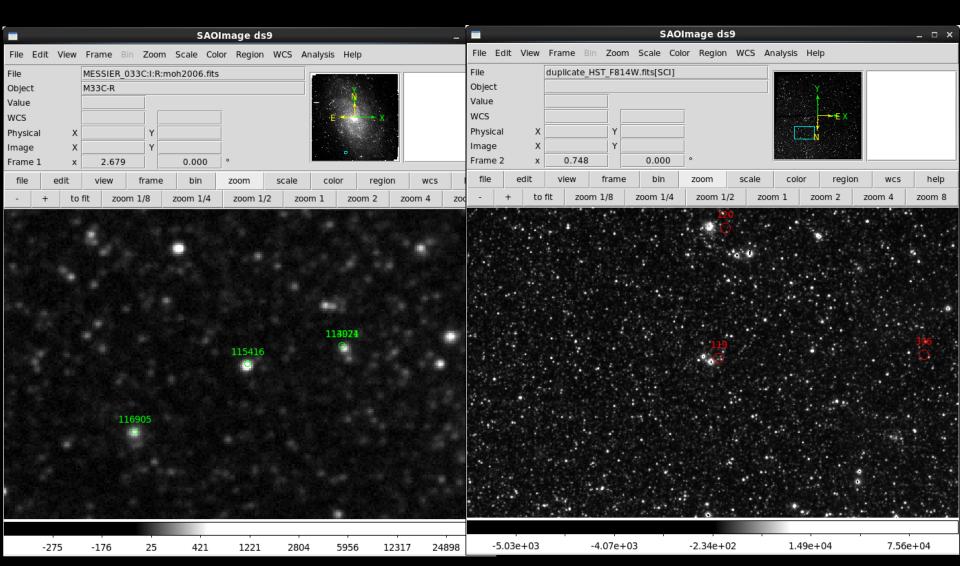
High-Mass X-ray Binaries (HXMBs)



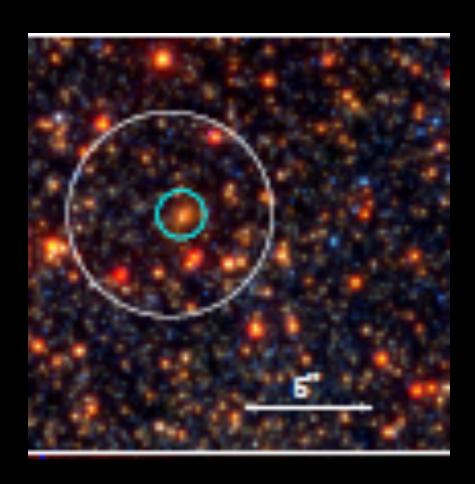
HMXBs in M33: Why Do We Care?



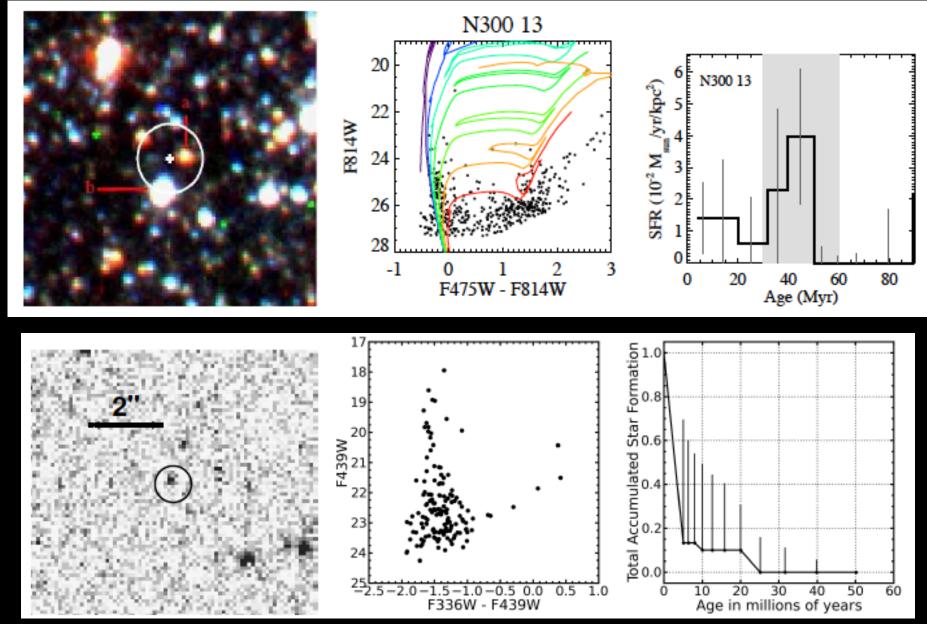
Image Alignment



Counterpart Identification: Combining Chandra and HST



Future Work: Ages for HMXBs



ARC 3.5-m Telescope

