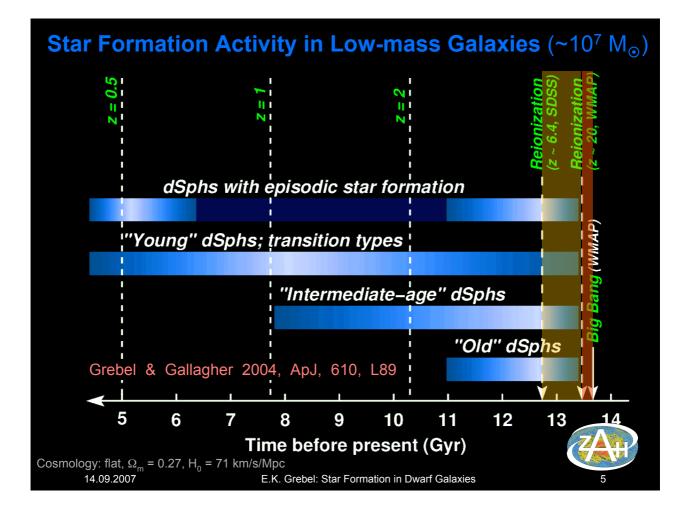
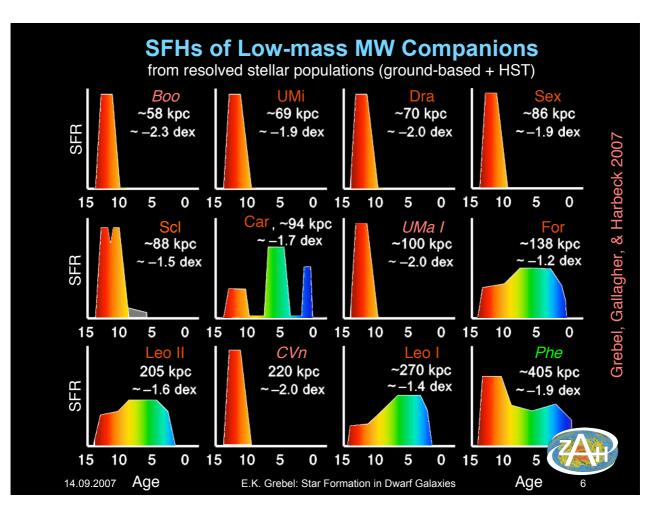
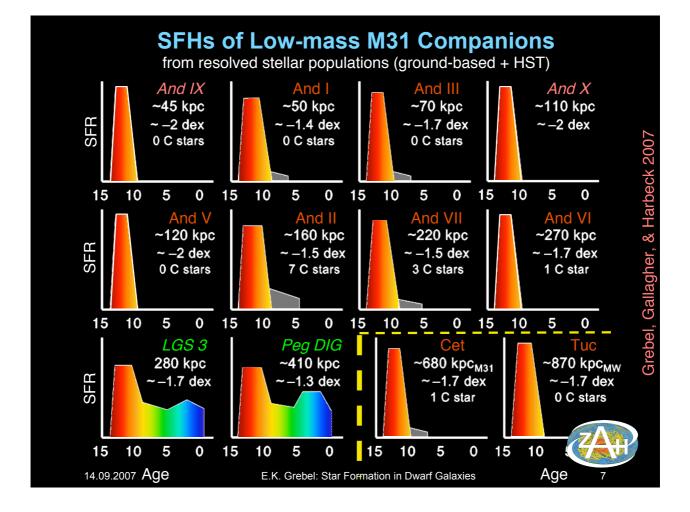
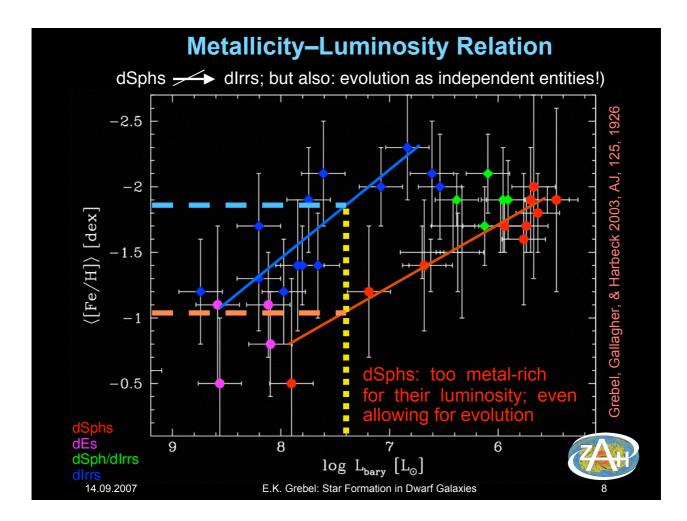


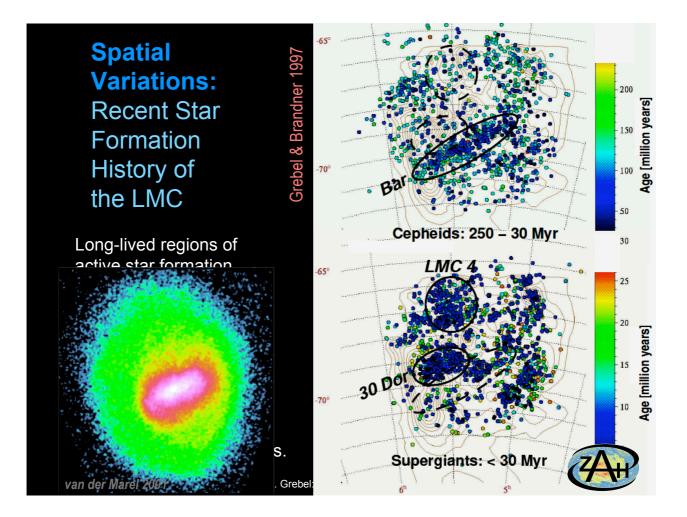
Ages: The Earliest Epoch of Star Formation Observational Results (Pop II only) (from relative age dating of main-sequence turnoffs) Old populations ubiquitous but fractions vary Evidence for a <u>common epoch</u> of early star formation Globular clusters with main-sequence photometry (Galactic halo & bulge, Sgr, LMC, For) **G** Field populations with main-sequence photometry (Sgr, LMC, Dra, UMi, Scl, Car, For, Leoll) □ RR Lyrae stars in more distant systems Grebel & Gallagher 2004, ApJ, 610, L89 14.09.2007 E.K. Grebel: Star Formation in Dwarf Galaxies





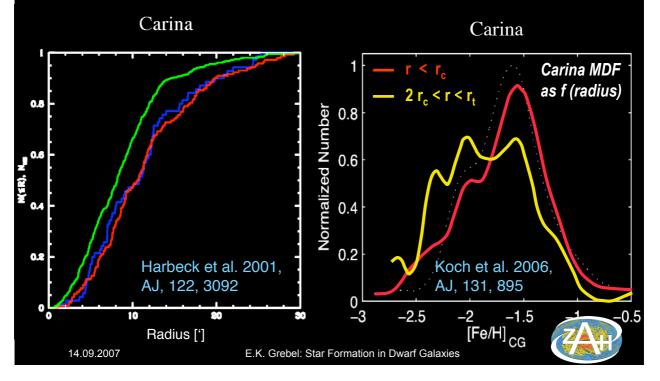






Spatial Variations: Age & Metallicity

Spatial distribution of stellar populations: even old stars vary. Younger and/or more metal-rich stars: <u>more centrally concentrated</u>



Example: The Age-Metallicity Relation of the SMC

VLT spectroscopy & ACS photometry of SMC clusters: Metallicity spread at a given age; SMC not well mixed! (SMC exceptional in high number of populous clusters.)

