**Space Science and Good Astronomy Apps**

**from the Little Thompson Observatory**by John Ensworth

**Planetarium Programs:**

*Sky Safari Pro* 4 – full planetarium program $40 (watch for specials) + Satellite Safari $3
 (also version 3 $2.99 and version 3 plus $14.99)

*StarmapPro*– full planetarium program $16.99

*Go Sky Watch*– full planetarium program $3.99

 (also version Starmap $4.99 Starmap Lite FREE Starmap HD iPad $16.99)
*SkyView* – (AR) full planetarium program $1.99 (and FREE version)

*Star Charts* – (Wil Tirion maps) $1.99

*Star Walk* – (with space music) $2.99

*Pocket Universe* (puniverse)– full planetarium software $2.99

*SkyORB* – FREE and $2.99 for pro in-app purchase.

*Worlds Apart* – Solar system emphasis $1.99

*Distant Suns* – full planetarium program FREE and $9.99

*Stellarium* – full planetarium program FREE

**Observing Aids:**

*DS Browser (Deep Sky Browser)*– $10.49

*Messier List* – FREE

*Planets* – FREE

*Meteor Counter* – FREE

*Astrosky (interesting finder/planning software) $4*.99

*Scope Help (some tools for those with telescopes) FREE*

*(And Observer Pro above)*

**Weather Forecasting for Astronomy**

*Scope Nights* – $1.99

*myCSC* – Clear Sky Clock – FREE

*Observer Pro*– planning program (uses 7Timer) $9.99

*Sky Harbinger (uses 7Timer) FREE*

[*Cleardarksky.com*](http://www.cleardarksky.com/)  (add to home screen)

*UCAR cloud forecast loops* [*http://weather.rap.ucar.edu/model/*](http://weather.rap.ucar.edu/model/) *(add maps to home screen)*

*Aurora Forecast – FREE*

 **Special Information:**

*SkyWeek* – (by Astronomy Magazine) FREE (also inside Sky Safari Pro)

*SkyTime* – FREE

*AstroClock* – FREE

*Astrolabe Clock* – FREE

*Satellite Flyby* – $2.99
*Satellite Tracker* FREE – Satellite Tracker plus $1.99

*Sputnik!* – FREE
*Darkness* – ephemeris $1.99

*iEphermeris* – $1.99

*Deluxe Moon Pro (iPhone) and Deluxe Moon HD Pro (iPad) $2.99 each*

*Exoplanet* –FREE and *Kepler* - $2.99

*MeteorGuide* – $0.99

*Comet Ephermerides* - - FREE

*Meteor Shower Calendar* - FREE

*Eclipses* – *FREE*

*Jupiter Guide FREE (Sky and Telescope has one too, JupiterMoons $2.99)*

*Transient Events FREE*

[*Spaceweather.com*](http://www.spaceweather.com)  (add to home screen) FREE

*MoonGlobe HD* – *$0.99 and Mars Globe HD* – *$0.99*

*Universe (dark matter simulator) FREE*

*Collider* – (Galaxy Collier) $0.99

**NASA Astronomy Apps:**

NASA SMD App - FREE
NASA Television App - FREE

NASA Now – News App - FREE

3D Sun – NASA’s Heliophysics Division - FREE

SOHO Viewer (formerly Sun Viewer) – FREE

NASA SWx - FREE

Hubble Site – FREE

Exoplanet - FREE and Kepler - $2.99

Astronomy Picture of the Day – APOD – FREE

DIY Sun Science FREE

**NASA Earth Science and Good Environmental Apps**

 NASA SMD App - FREE
 NASA Television App - FREE
 NASA Now – News App - FREE
 Earth Envi - Earth Remote Images $1.99
 Google Earth FREE
 USGS Seismic FREE
 Mappity Quakes $0.99 (and FREE lite version)
 Quakes by TAWCS FREE
 iSeismometer FREE

**Weather Information**

MyRadar - regional radar FREE and $1.99

RadarScope - high resolution local radar $9.99 (more for $10/yr. subscription)

AccuWeather - forecasts FREE and $0.99 version

Weather Nation (WN) – forecasts FREE

TWCMax - forecasts $3.99 and FREE version

WeatherBug Elite- forecasts, lightning, and Webcams - $0.99 and FREE

WxAlertUSA – forecasts $9.99

Drought/Fire - hydrologic data $0.99

iMapWeatherRadio – audio forecasts and alterts $9.99

CloudMap - local satellite images FREE

wxPlanet now Earth Buzz - planetary satellite images FREE and $3.99

Skeptical Science – answers on global climate change FREE

**Websites:** [Weatherunderground.com](http://weatherunderground.com) Mobile site, NWS Maps ([www.weather.gov](http://www.weather.gov)),

UCAR ([weather.rap.ucar.edu](http://weather.rap.ucar.edu))