1) Release of arctic methane exceeds predictions. Scientists warn of "run-away" global warming, accelerated by blanket of atmospheric methane trapping ever more heat as it builds up.

2) Industrial food production exacerbates growing greenhouse gas emissions, as more energy goes into factory meat farming for new Chinese diets.

3) The "Green Revolution" and beginning of "gene revolution" engender "plant genetic collapse" in global food supply, leaving world's poorest populations most vulnerable to famine, starvation and epidemic disease.

4) Methane "leaking" from fracking in U.S., Europe and China makes "natural gas" extraction into a major greenhouse danger, rather than helping reduce carbon consumption.

5) On all continents human vulnerability to extreme weather increases dramatically with ominous demographic trends of urbanization and migration toward coastal cities.

6) Probability of earthquake and volcano catastrophes along tectonic plate boundaries increases as cubic miles of water are added to oceans from melting land glaciers.

7) Microbes released from 40,000 year old "deep freeze" as permafrost melts. Preagricultural pathogens infect global food supply through migratory birds and new strains of bird flu are detected in China.

8) Europe faced with massive, slow motion "row boat" invasion from Middle East and North Africa. Environmental refugees overwhelm immigration authorities in Italy, Greece, Spain and France.

9) Local and regional religious conflicts flare in Turkey, Syria, Egypt and the Sudan as changes in rainfall and sea level rise spark "water wars" between desperate populations.

10) Mexican farmers, forced off land by agribusiness "land grabs" clash with immigration control agents as they desperately seek farm labor jobs north of the boarder.

11) Doctors warn of epidemics of drug-resistant Cholera as sea level rise and severe flooding compromise sanitation systems of Asian cities in India, Thailand and China.

12) Shifting global weather patterns drive massive migration from regions stricken by multi-year and multi-decade drought and ensuing wildfires.

13) Scientific research affirms that the existing human population exceeds Earth's carrying capacity for humans with currently employed technology. Only hope for human survival is a transition to a post-fossil-fueled world.