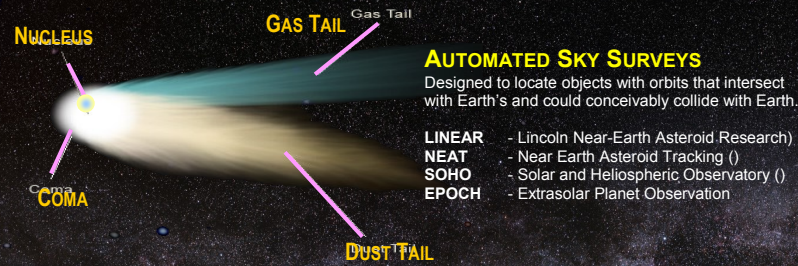


# THE COMETS OF DESTINY

The purpose of this timeline/chart is to highlight several key and unique properties of the 'Naked-Eye' Comets that have thus far been observed. There appears to be somewhat of a 'pattern' since 1996 that leads to some possible speculation that something of great significance will happen in the coming years. Several elements of the comets will be noted and some definitions will be provided for context. The dates provided are taken when the comets have reached their 'Epoch' or perihelion for the most part. In many cultures, these celestial occurrence are attributed to ominous 'omens' or warnings. Metaphorically, comets seem to be 'underlining' the storyline as it passes through certain constellations of the Mazzaroth (Zodiac). For example, the Book of Revelation speaks of at least 2 celestial bodies that will affect the Earth directly & catastrophically. This is particularly significant as the comet that appeared during the 'Days of Noah' have returned in this generation. Since the advent of the 'ancient' comet that returned in 1998, some Christians propose that YHWH is using such celestial bodies like comets as 'Signs'. Perhaps the world in these 'Last Days' will witness in this generation the immanent events of the Rapture, the pending judgment and Jesus Christ's physical return to Earth as the end of the present 'Age of Pisces' comes to a close.

## PATTERN OF MAJOR VISIBLE COMETS 1996-2013



### AUTOMATED SKY SURVEYS

Designed to locate objects with orbits that intersect with Earth's and could conceivably collide with Earth.

- LINEAR** - Lincoln Near-Earth Asteroid Research
- NEAT** - Near Earth Asteroid Tracking
- SOHO** - Solar and Heliospheric Observatory
- EPOCH** - Extrasolar Planet Observation

On any given night, there are literally 100s of comets in the sky, but most can only be seen by the world's largest telescopes. There are also 100s of comets visible by common telescopes. It is the very rare that a comet can be seen with the 'Naked Eye'. When the comet is close enough to become naked eye comet, it obviously is very close to the Sun. These are the ones cataloged on the Timeline. This chart and timeline seek to list only the famous comets that have been highlighted to see if there is any time and frequency variations or correlations amongst the major 'Naked-Eye' comets. There is by far a record number of naked-eye visible comets for a 17-year span. It is when a comet becomes exceptionally bright that it is called a 'Great Comet'. There is no official definition; often the term will be attached to comets that become bright enough to be noticed by casual observers who are not actively looking for them, and become well known outside the astronomical community.

According to scientist, the ice that make up comets appear to be the very building blocks of the physical universe. They are the remnants of when the Solar System began. Today a prominent Naked-Eye comet can be expected about once a decade. With powerful telescopes, more comets can be seen. Relatively speaking, comets are very rare. Only as much as 15 or 20 comets are detectable in the sky at any one time. Most comets are located outside our Solar System. It is theorized that they originate in the part of the universe that has remained virtually untouched. These regions are referred to as the OORT CLOUD and the KUIPER BELT. It is thought that objects within this cloud are occasionally ejected either by collision with one another, or by the gravitational forces of stars.



### Comet C/2012 S1 (ISON)

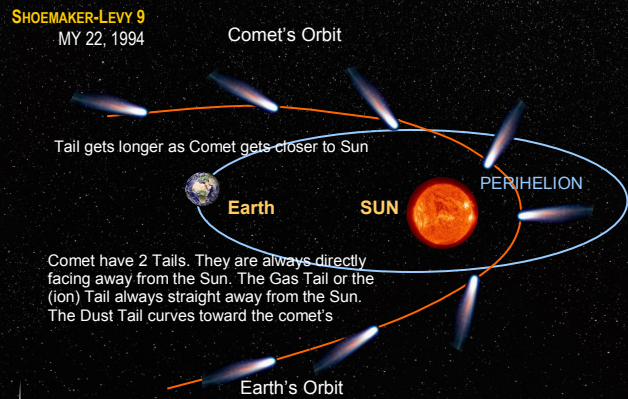
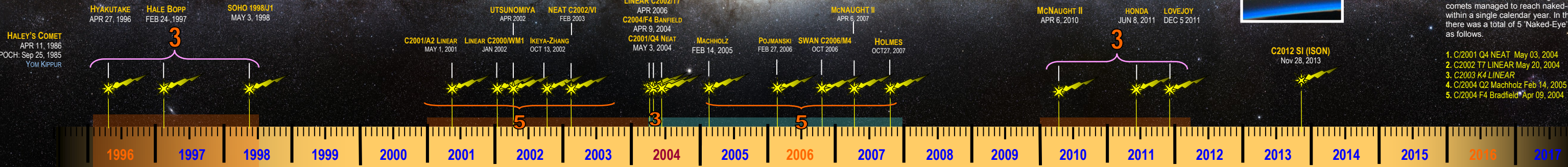
A new comet was discovered by 2 Astronomers in 2012. It will reach perihelion by Nov 28, 2013 on Hanukah. It has the following peculiarities.

- Never passed through our inner solar system.
- Expected to be larger and more reflective.
- Headed towards Earth from the Oort cloud.
- First sighted in the constellation of Cancer.
- Brightness magnitude is expected to be -16.
- Will be most visible in the northern hemisphere.

### 2004: YEAR OF THE COMET

Twice before, in 1911 and again in 1970, 4 comets managed to reach naked-eye brightness within a single calendar year. In the year 2004, there was a total of 5 'Naked-Eye' visible comets as follows.

1. C/2001 Q4 NEAT May 03, 2004
2. C/2002 T7 LINEAR May 20, 2004
3. C/2003 K4 LINEAR
4. C/2004 Q2 Machholz Feb 14, 2005
5. C/2004 F4 Bradfield Apr 09, 2004



### METEOR SHOWERS

Periodic comet leave behind a string of ice and debris along the comet's orbit around the Sun. If the Earth's orbit happens to intersect that ring of debris, then when the Earth flies through it will result in a 'Meteor Shower'. For example, the ORIONID METEOR SHOWER that happens every October is caused by Halley's Comet.

The vast majority of comets are never bright enough to be seen by the naked eye, and generally pass through the inner Solar System unseen except by some telescopes. Occasionally a comet may brighten to the point that it can be seen by the naked eye. The 'Naked-Eye' comets usually have a large and active nucleus. They also come to a close approach to the Sun the Earth.

For example, Comet *Hale-Bopp* had an exceptionally large and active nucleus, but did not approach the Sun very closely at all, yet it still became an extremely famous and well observed comet. Equally, Comet *Hyakutake* was a rather small comet, but appeared bright because it passed extremely close to the Earth.

### HALEY'S COMET

APR 11, 1986  
Purported to be seen on **66 AD** just 3.5 years prior to the total destruction of the 2nd Temple.

66 AD-2013 (ISON) = 1947 years  
66 AD-2016 = 1950

1950 - 3.5years = ~1947  
1983 + 33years = 2016

2019 - 3.5years = 2015.5  
2015 + 3.5years = 2018.5

### COMPOSITION

A comet is often called a 'SHOOTING STAR' because it is a small celestial object with a large tail. A comet is a collection of large number of rocky and metallic particles coated with frozen ice, water, carbon dioxide, then ammonia and methane. Comets revolve around the Sun like planets with very large and very eccentric orbits. A comet only becomes visible when it approaches the Sun, not the Earth in most cases. Most cultures ascribe comets with causing great calamities and omens of doom.

### PERIODIC COMETS

These comets have elliptical orbits and usually return after a set period of time. Non-Periodic or 'Hyperbolic' comets have parabolic orbits and only come once in a 'lifetime'.

### PECULIARITIES

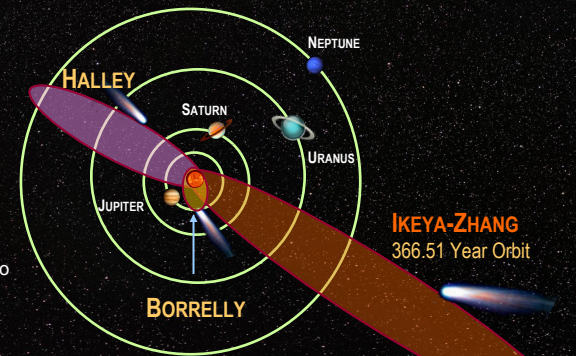
Comet LINEAR 2001/A2 made its first visits to the inner solar system in 2001. It has the most elongated orbit, with a period of approximately **30,000 years**. It is believed to have come from the outer *Kuiper Belt*. Before this, comet Ikeya-Zhang of Oct 13, 2002 was the brightest comet since 1997 and had the longest known orbital period at the time. Comet Machholz in 2005 was the brightest for about 7 years. Machholz attained its peak brightness as it approaches the "PLEIADES". Comet McNaught of 2007 was one of the brightest comet in **40 years**. SUNGRAZERS are comets that are pulled into the Sun as they pass remarkably close to the surface.

### COMET ORBITS

The orbits of 3 'Periodic' Comets:

1. Halley
2. Borrelly
3. Ikeya-Zhang

Set against the orbits of the outer planets. Comet Ikeya-Zhang is of the longest ever recorded. Solar System not to scale.



### MAIN SOURCES

- Cometography.com
- Musterion8.com
- NASA.gov
- TheAstronomer.org
- TimeandDate.com
- Wikipedia.com