

## SECTION 9

### *The Dark Flow Anomaly*

#### THE UNIVERSE CONTEXT

Having found that there are small, centrally directed, distance independent, non-gravitational, same, anomalous accelerations appearing as a near Earth effect [the Flybys Anomaly], a Solar effect [the Pioneer Anomaly], and a galactic effect [galactic rotation curves], it can be expected that the same effect appear relative to every planet [and every planet's moons], every sun [star], every galaxy and every group of galaxies.

And, such a small, centrally directed, distance independent, non-gravitational, same, anomalous acceleration could be expected to appear for the universe overall, appear directed toward the center of the universe, the location of the origin, where it all began.

The universe began with the “Big Bang”, an immense explosion radially outward in all directions, largely spherically symmetrically, from an original source “singularity”.

We, residing on planet Earth, of star Sol, in one of several branches of spiral galaxy Milky Way, are located off some significant distance in “our general direction” from and relative to the location of that original singularity.

We can “see” or detect a large number of neighbor galaxies, distant and near, whose components, as did ours, proceeded outward from that “Big Bang” in directions slightly or significantly other than our particular direction.

But, there is a further mass of stellar bodies that proceeded outward from the “Big Bang” in directions away from us. What we can detect is only well less than half the total product of the “Big Bang”.

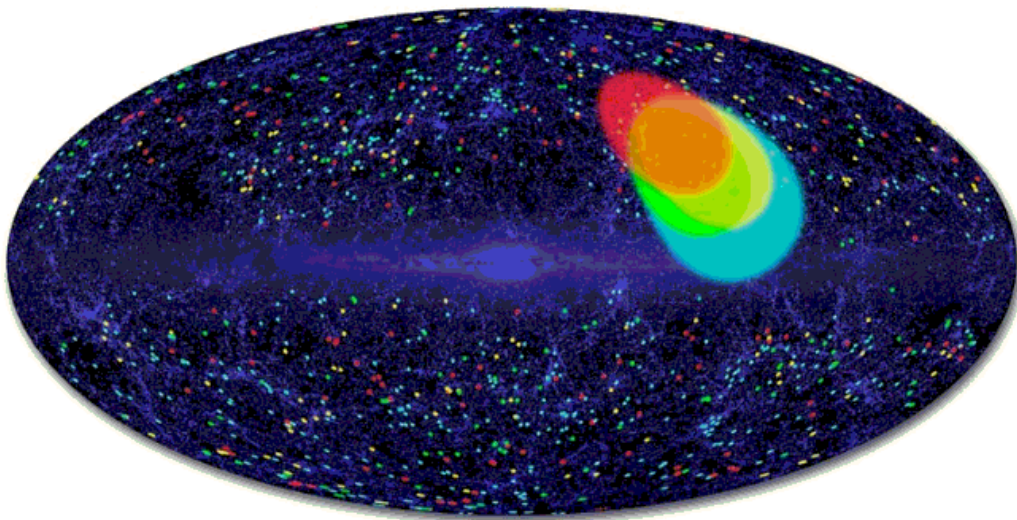
The original location of the singularity, the origin, lies essentially at the center of the largely spherical volume of the source's product, the expanding universe. And the universe that we “see” lies largely to one side of that origin's location

THE “DARK FLOW” ANOMALY

To the above list of three effects caused by a small, centrally directed, distance independent, non-gravitational, common, anomalous acceleration can now be added the “Dark Flow” as originally reported in 2008 and further analyzed in terms of extensive new data as reported in a NASA Goddard Release.

“Distant galaxy clusters mysteriously stream at a million miles per hour towards a single point in the sky, separate from the expansion of the universe, along a path roughly centered on the southern constellations Centaurus and Hydra.” The phenomenon is dubbed by the researchers the "dark flow".”

“The clusters appear to be moving along a line extending from our solar system toward Centaurus / Hydra away from Earth. The distribution of matter in the observed universe cannot account for it. Its existence suggests that some structure beyond the visible universe -- outside our "horizon" -- is pulling on matter in our vicinity.”



“Dark Flow” Galaxy Clusters and Flow Direction by Distance

- Clusters from 0.8 – 1.2 billion light-years away (250 to 370 megaparsecs)
- Clusters from 1.2 – 1.7 billion light-years away (370 to 540 megaparsecs)
- Clusters from 1.3 – 2.1 billion light-years away (380 to 650 megaparsecs)
- Clusters from 1.3 – 2.5 billion light-years away (380 to 755 megaparsecs)

The colored dots are galaxy clusters within one of four distance ranges. Colored ellipses show the direction of bulk motion for the galaxy clusters of the corresponding color.

Figure 9-1  
The “Dark Flow”

This is indication of the overall universe's experiencing an anomalous centrally directed acceleration accelerating all the matter of the universe gradually back toward the location of its origin [as described above]. This "Dark Flow" is part of that centrally directed acceleration toward the location of the origin of the universe, a location at or just beyond the "edge" of the universe "see-able" by us.

A "map" of the universe that we "see" would look somewhat as in Figure 9-1, above, where the regions of galaxies studied involved in the "dark flow" are indicated in the large colored areas in red, yellow, green and blue.

Thus we have a small, centrally directed, distance independent, non-gravitational, common, anomalous acceleration acting directed at the center of every object system in the Universe: planets, stars, galaxies, and the overall Universe.

There Is a Common Cause of All These Varied Phenomena:

– *The Universal Exponential Decay* –

As Follows