

# DOES GOD'S HOLY DAY CALENDAR USE THE VISIBLE CRESCENT?

by Jamie McNab

## Part Two

*In Part One we looked at some of the alternative calendars being “marketed” to God’s people today. We saw what the Bible does, and does NOT say, about new moons and new years. We looked briefly at church history. We saw that Mr. Herbert Armstrong had thoroughly looked into this subject as far back as 1940. We continue in Part 2 to look at how impractical it would have been for God’s people—especially over the past 2,000 years—to have kept a VISIBLE CRESCENT!*

*Part 2 is the content of a letter written to a member of God’s church who wished for additional clarification of the calendar topic.*

You've asked in your e-mail if I can let you have *proof* of God's Holy Day calendar. That's what I call a challenging question!! There are all sorts of people out there who have "proof" of "their version" of God's calendar. I think the last time I counted, I came to over a dozen *different* calendars -- all claiming to be the original Biblical Holy Day calendar. Some people, like Herbert Solinsky, have spent DECADES studying the calendar — only to have fundamental disagreements with other very sincere "church scholars" who have reached an entirely *different* opinion. It all reminds me of 2 Tim 3:7, "Ever learning, and *never able to come to the knowledge of the truth*"!

I am enclosing a copy of an article I wrote for one of the recent Church of God Newsletters (*this now appears as **Part One** of this series*). It sets out, as clearly as I can, why we accept the calendar maintained by the Jews.

Despite what some may say, the Bible itself does NOT give adequate information from which to develop

a working calendar -- and that is a FACT. Compare the incredible amount of detail given in the Bible about LEPROSY (over *110 verses* in Lev 13-14 alone!!), with the almost non-existent, and rather unclear, references to "new moons" and "the beginning of months". God could have made it *crystal clear* in the scriptures if He had wanted to. He chose not to, and yet He did leave us a standard -- an authority over the calendar -- as I hope my paper makes plain.

Probably the main alternative to the *calculated* new moon of the Jewish calendar is the *visible crescent* new moon. This point is explained at some length in *Part One*, where hopefully I show that you can't prove a visible crescent *from the scriptures*.

It seems to me, however, that even common sense shows that a visible crescent is simply NOT POSSIBLE as a measure of the commencement of the new month. A visible crescent, by definition, has to be VISIBLE -- it has got to be SEEN.

Historians will explain how witnesses had to appear before the Sanhedrin in ancient times to confirm that they had *seen* the new crescent -- at which point the Jewish leaders would allegedly make the new month "official". Well, that might be very convenient for those Jews living in Palestine -- but makes life rather tricky for those Jews living in Egypt, Ethiopia, Russia, Spain and so on! Without the benefit of telephones, faxes and e-mail -- how are they supposed to know when a new month has begun? Bonfires, and fast horseback riders, have been suggested, but come on -- if you are over 2,000 miles away from Jerusalem, you probably wouldn't find out for a week or longer! It is totally impractical! It couldn't work.

In some parts of the Diaspora, the Jews tried keeping TWO Holy Days at a time, so that at least ONE of them might be right! In fact the custom still exists among the Jews to this day. (Though, strangely, they don't double up on the Day of Atonement -- I wonder why?!).

Consider also the true Church of God in Britain back in the first and second centuries. As begotten members of God's family, they were certainly keeping the Holy Days. How could they know for certain when the crescent moon had appeared over Jerusalem 4,000 miles away? What about the Church down *through the centuries*, through its various eras? What about the early Church of God in the USA back in the 1600's? How could they determine when the visible crescent had appeared over Jerusalem? Don't forget, the Jews had long since been driven out of Palestine, so there was in fact *nobody there* to look for the crescent, anyway! And certainly no way to tell people thousands of miles away.

But some will no doubt say that nowadays COMPUTERS allow us to work out the times of the visible crescent. So let's just ignore the "inconvenient" problem of how the Church figured God's Holy Days over the past 1,900 years when it didn't have effective access to Jerusalem, and didn't have Pentiums and Lap-tops. Let's revert to the visible crescent, even though IT COULD NOT HAVE WORKED for most of God's people since the time of Christ. Well -- what about the computer calculations of a visible crescent? Are they foolproof? Guaranteed? Can those who want to "observe" a "visible crescent" actually rely on a computer program? As far as I can tell, the answer is a big NO!

The sighting of the first thin visible crescent is not just a matter of calculating how much of the moon will be visible, and whether the sky will be dark enough to make it out

and so on. The visibility is also affected by such things as temperature and humidity, which vary by the day and hour and *cannot be predicted*. If you go by the visible crescent, then, to be absolutely sure, you must physically observe it with the human eye (or would God allow binoculars? Once again the Bible is silent!). Following are two quotes, one from the Royal Greenwich Observatory in England, and one from the US Naval Observatory, which explain the difficulty of any computer providing a perfect calculation of a visible crescent (emphasis added):

### ROYAL GREENWICH OBSERVATORY

**"It is NOT POSSIBLE to predict accurately the dates on which the new crescent Moon will first be seen each month** since there is no collection of reliable, fully documented, observations that can be used to establish the conditions that must normally be satisfied at the time of first visibility.

"The simplest basis for prediction is that the Moon should be more than a certain age (measured from the time of astronomical new moon) at the time of sunset at the place concerned.

"It is, however, better to use the true elongation (the angular separation) of the Moon from the sun at this time, rather than the age. The new crescent is not normally visible until the Sun is below the horizon and so it is desirable to take into account the altitude of the Moon during twilight. The chances of seeing the new crescent depend slightly on the distance of the Moon

from the earth, being greatest when the Moon is closest (i.e. at perigee). The local conditions, especially the height of the observer above sea level and the character of the surrounding surface, are important, and **even when the sky is free from cloud there can be considerable variations in clarity of the atmosphere from day to day**.

"The *visual acuity* of the observer is also significant. It must be realised too that there are considerable variations in the astronomical conditions with both longitude and latitude on the earth so that even if the weather conditions were good everywhere, the dates of the first sightings would differ from place to place. Predictions can, therefore, only be valid, for restricted areas. Under ordinary conditions, the first sighting will not occur until the age of the Moon exceeds about 30 hours, but a few reliable reports are known of sightings, under very good conditions, when the age has been only 20 hours or even less. It is unlikely that the new crescent will be visible unless the elongation exceeds 10 degrees and the Moon exceeds 5 degrees when the Sun is 3 degrees. It is interesting to note that the new moon can always be seen 30 days after the previous one and in half the cases it can be seen 29 days after, because the length of the synodic month is 29.53 days...

**"Since it is clear that any prediction of the date of first visibility MUST BE UNCERTAIN**, it is necessary to decide whether to prefer an early prediction that

could not be substantiated by direct observation if conditions prove to be good, or a late prediction that could be vitiated by an observer on the previous day. The simple rule that this Office recommends is that the age of the Moon should be 30 hours at the time of sunset at the place concerned, but this rule is not so reliable in middle and high latitudes."

### **US NAVAL OBSERVATORY**

"Under optimal conditions the crescent moon can be sighted somewhat less than 15 hours after astronomical New Moon. Usually, however, it is not seen until it is more than 24 hours old. Often it is not seen for more than 48 hours... But **despite these advances we still CANNOT PREDICT THE**

**EXACT TIME** or geographical location at which the young crescent will first be spotted."

And so we see that even scientists and astronomers, with the benefit of modern computer technology, are unable to **GUARANTEE** a predicted *visible crescent*! So **HOW** would the church members in fifth century Britain, or 18<sup>th</sup> century America, possibly calculate the exact time of the visible crescent over Jerusalem, **MANY THOUSANDS OF MILES** away?? Yet they certainly couldn't **SEE** it themselves. And they couldn't wait for a telephone call from a friend in Judea, to let them know the crescent had been sighted! So **HOW DID THEY KNOW** when to keep Passover and the other Holy Days? Simple—go find the nearest Jew, and **ASK HIM** what the date is! God's True Church has always relied on **GOD'S**

**FAITHFULNESS**. God did not leave us without an accurate calendar for nearly 2,000 years.

Let's be sure to **HOLD FAST** to what we have been given!

*[In Part 3 of this series we will look more closely at God's faithfulness. Could God really have left His people with a **FALSE CALENDAR** for almost the entire history of the New Testament church? And what about the Postponements? Were they an **INVENTION** of the Jews, to make it more convenient to keep the Fall Holy Days—or does **ASTRONOMY** require the postponements to keep the calendar accurate? Be sure to read Part 3—the Hebrew Calendar Revisited—for the plain truth!]*

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