What star is this? An astronomer's thoughts on the "Star of Bethlehem"

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But first, something really important: What's in your wallet?

- 109,000 on organ transplant wait list
 - Only about 40,000 transplants/year
 - 6,000/year will die waiting
 - Please sign up to be an organ donor!

What do we <u>really</u> know about the "Star of Bethlehem?" Actually, not a lot!

- Gospel of Matthew
- Popular "Christmas" carol
- Possible connection to histories of Flavius Josephus?
- Astronomical records from China & Korea

What "explanations" can be eliminated?

- Meteor shower
- Comet
- Solar or lunar eclipse
- Supernova?
- Nova ?



What can we learn from "history?"

- Who were the Magi? Where did they come from?
- What events surrounded the death of Herod? Was it 4 BC or 1 BC?
- "Holy Innocents" Magi arrived 2 years after Jesus' birth.

The "4 BC Scenario" - traditional date of Herod's death

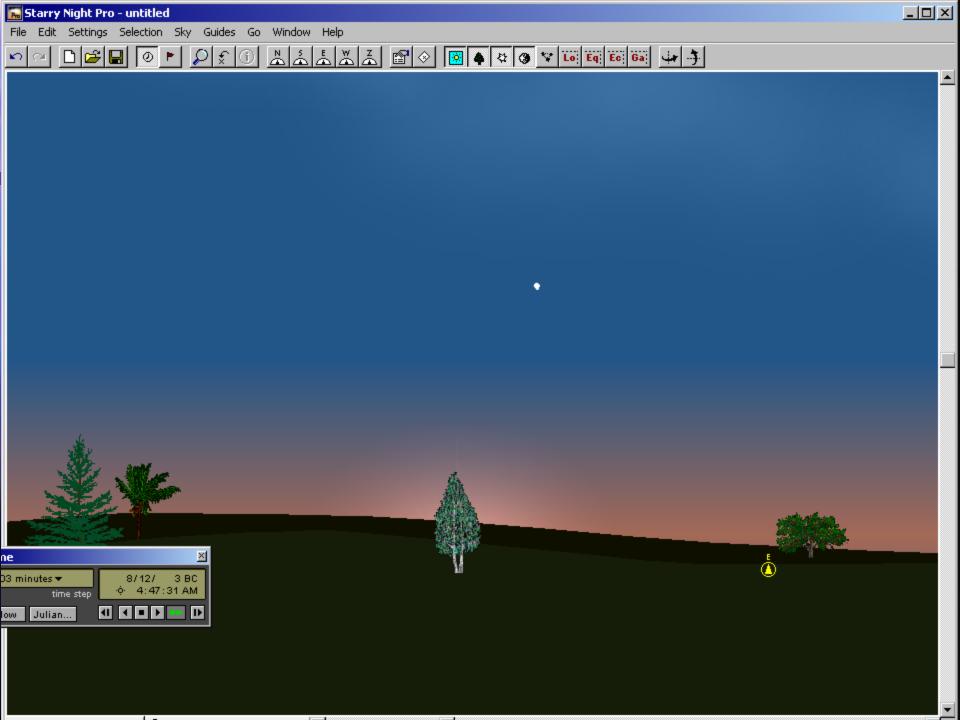
- Series of planetary conjunctions (Jupiter and Venus) in 7-6 BC would get attention, but not decisively.
- Hebrew name for Jupiter: Sedeq, which means Righteousness.

The "1 BC Scenario" (See Ernest Martin's "The Star that Astonished the World")

- Jupiter conjunction with Venus in August
- Jupiter conjunction with Regulus in September but, apparent only before sunrise! Astrologers would notice, others would not.

Dare I suggest 3 BC?

- Jupiter, Venus, and Sun together in Leo could portend a "royal birth"
- 12 August, 3 BC
- Conjunction with Regulus 11 Sept (Rosh Hashanah!)
- then 2 Feb, then 30 April!
- Then Venus (again!) 17 June, 2 BC

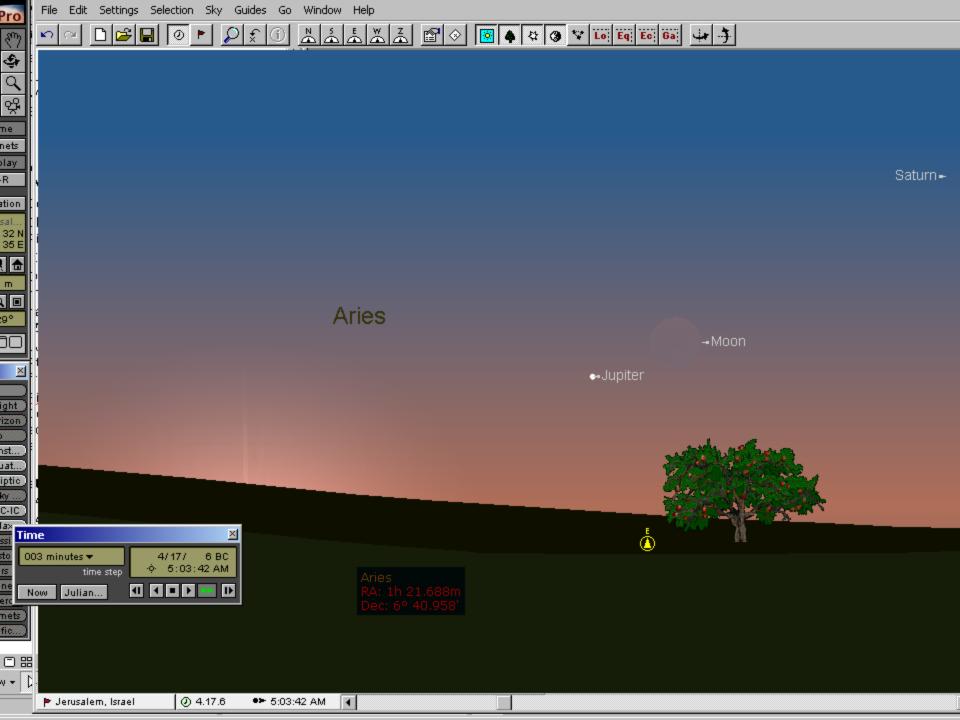


How about a combination of events? See Mark Kidger's "The Star of Bethlehem"

- Conjunctions in 7 6 BC (get their attention!)
 - Chinese / Korean reports of "guest star" in Pisces - 5 or 4 BC
 - "In the East" when first observed
 - Over Bethlehem (seen from Jerusalem) 2 months later.
 - This has a problem why associate Pisces with Judea?

Michael Molnar's "The Star of Bethlehem — The Legacy of the Magi"

- Was Aries the sign of Judea? (So says Claudius Ptolemy. Appears on Roman coins 13-14 AD from province of Syria)
- Firmicus Maternus (astrologer to Constantine, 334 AD) attributes 6 BCE double eclipse of Jupiter in Aries as marking birth of a divine king.



Who's right? What was the "Star of Bethlehem?"

- Impossible to say! But ...
- If Herod died in 4 BC, then Constantine's astrologer probably has the right event.
- If Herod died in 1 BC, I'd vote for the 3 BC conjunction.

What does it all mean?

- "Faith and Science"?
- "Faith vs. Science" ?
- Ian Barbour: Conflict, Independence,
 Dialogue, Integration

What's really important here?

That depends on who's asking For Christians, it's <u>not</u> the star!