Eratta: Time accuracy is 0.3% (worst), escape velocity should be 133,026 mph

Amateur astronomer weighs planet Jupiter

planet would take three times more muscle. World Series on giant

BY DAN SWANSON News-Press

lished by NASA. 0.2 percent of the figure estabweight of the planet Jupiter within Nebraska City determined the led by Eugene Lanning of An amateur astronomy project

of Jupiter's 35 moons. Lanning Amateur Astronomers tracked four between Jupiter and the moons and collected data on the distance the American Association of Lanning and other members of

of the moons. He then used the mine the weight of the gas planet. gravitational constant of the universe and Keplers Law to deter-Based on Lanning's data, the

at nearly 4.18 billion-billion-bilweight of Jupiter was determined than the entire Earth weighs. lion pounds, about 317 times more

would weigh over 12 ounces. If the on Jupiter, a 5 ounce baseball would have to travel about 48 within a third of the distance the gravity would yank it from the air gravity, Lanning surmised, it For the ball to escape Jupiter's ball might have traveled on Earth. ball were hit by a bat, Jupiter's If the World Series were played the time between peak movements

measuring the time between the achieve a .03 percent accuracy on Europa, Ganymede and Callisto. movements of the moons, Io, The Jupiter Project was able to

that level of accuracy," he said. many errors and still end up with "I was ecstatic. You can't have

earth observers could only see so that instead of seeing all four, read a report in "Sky and moons would pass over each other, Telescope" that said two of the During the project, Lanning

miles per second, or about 172,000 three. miles per hour.

their pay." leaguers would really be earning home runs," he said. "The major "You wouldn't have all the

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utes of the time listed in the report. occur. He came within three minpredict the time the event would developed for the Jupiter Project to Lanning applied the model he

somewhere down the line." you must be doing something right he said. "If you're batting 1000, "It was an unexpected benefit," Lanning said he learned a lot

great fun and I got to help others reached at dswanson@newwestthe News-Press and may be from the project. "To me, it was processing the mathematics," he Dan Swanson is a reporter for