The Telescope’s images improving

Ka Leo Staff

HAWAI’I, Mauna Kea — Observations of Uranus conducted at the W. M. Keck Observatory in Hawai‘i are surprising astronomers with the level of detail they can see in the space from the ground. Two separate teams of astronomers, one from Berkeley/SSI and one from Wisconsin, used advances in Keck adaptive optics (AO) to help make major scientific discoveries regarding the planet’s atmosphere and ring systems. The results are a powerful example of how ground-based telescopes are helping astronomers study planets in the outer solar system that once could only be studied from space.

Early results were announced last Wednesday at the 36th meeting of the American Astronomical Society’s Division for Planetary Sciences.

“We are stunned by the quality and detail of these images,” said Dr. Frederic Chaffee, director of the W. M. Keck Observatory in Hawai‘i. “These are the best pictures of Uranus that have ever been produced by a telescope, and they are opening new windows of understanding for this unique and special world.”

The most recent observations of Uranus show the planet as it approaches its southern autumnal equinox, which takes place in 2007 (the length of the year on Uranus is 84 Earth years). The two teams used narrow filters at infrared wavelengths to study features in the atmosphere and ring sets, both of which are enormously enhanced by the Keck AO system. Ground-based telescopes are helping astronomers track climatic changes in the planet’s atmosphere.

“After years of study we think that Uranus is relatively inactive, but these images show that Uranus is definitely changing, and perhaps quite dramatically,” said Imke de Pater, professor of astronomy at the University of California-Berkeley, who is lead investigator for the team responsible for the Keck observations. “What is causing it, no one knows for sure. Only time will tell.”

The new images are the result of many general improvements to the Keck AO system. A new calibration technique removes artifacts previously present in the images when measuring the atmospheric distortion with a planet instead of a point source of light. Also new to the Keck AO system off and then with the AO system on.

In this figure, the ring system is more readily visible through the 2.2-micron filter because methane absorption at this wavelength renders the planet extremely dark except for a few high-altitude clouds. In contrast, the 1.6-micron image shows deeper atmospheric cloud structure, including many discrete features peppered the planet’s northern hemisphere. At 1.6 microns, the rings are just barely visible as a faint streak across the planet’s disk.

“The differences are stunning,” said Hammel. “The detail provided by Keck’s AO system for the atmosphere and the rings of Uranus fundamentally changes the science we can achieve.”

Later observations by the team at University of Wisconsin-Madison that also used the Keck II AO system were formed into a composite image in which the highest level clouds appear bright green, and the lower clouds appear dark blue. The color balance used to reveal the cloud structure in these infrared exposures, which are not in Keck adaptive optics. The color distortion with a planet instead of a point source of light. Also new to the Keck AO system off and then with the AO system on.

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Dr. Lawrence Stomvonsky, principal investigator for the Wisconsin observations said, “Twenty years ago we simply couldn’t see the details of the gas giant system the way we can today with large ground-based telescopes like Keck. These images actually reveal many more cloud features than the Voyager spacecraft found after traveling all the way to Uranus.”

Until recently, little was known about the oddball planet, which gets its name from the Greek word “Ouranos,” a mythological god who personifies the heavens. Uranus lies tipped on its side, probably the result of an ancient cosmic collision, and its magnetic field lays strangely off-set in and tilted with respect to the planet’s rotational pole.

In 1986, the Voyager 2 spacecraft sent pictures to Earth of what appeared to be a nonscoped ball suspended in space. At that time, the South Pole of Uranus was pointed almost directly at the sun, and the North Pole pointed away. Now, more than 18 years later, the planet is drawing near the point in its orbit where the planet’s equator will be pointing toward the Sun, and both poles will get about 17 hours of sunlight a day.

On Earth, the massive storms captured in the new pictures of Uranus would engulf nations as large as the continental United States, about three million square miles. But at a distance of more than 1.6 billion miles, even such large storms are barely detectable and require the use of the world’s most powerful telescopes.
Events

Public Speaking Club Meeting
When: Monday, Nov. 15. 11 a.m. - noon
Where: Campus Center 309
The Toastmasters program will help you develop your communication skills and open doors in your personal and professional life. Contact: Troy Fortin at 265-3471 or Atlee Tagayuma at atlee@hawaii.edu

Book Signing for Ed Greery, Gary Pak, and Kathy J. Phillips
When: Wednesday, Nov. 17. noon - 1 p.m.
Where: UH Manoa Bookstore, Campus Center Basement
Book signing for Ed Greery, photographer of “Ku’a: Thirty Years of Land Struggles in Hawai‘i”; Gary Pak, author of “Children of a Field: A Novel;” and Kathy J. Phillips, author of “This Isn’t a Picture I’m Holding: Kaun ‘Iin.”

“Different Directions”
When: Until Friday, Nov. 19.
Where: Robyn Buntin’s Oceania Gallery
Where: Outdoors on the Makai side of campus
When: Nov. 21 at 4 p.m.

Performances

“Half Dozen Long Stem”
When: Nov. 18, 19, 20, 21, 26, 27, 28; Dec. 2, 3, 4, 5, 9, 10, 11, 12, at 8 p.m.
Where: Kumu Kahua Theatre
Kumu Kahua premieres another new work by playwright and newspaper columnist Lee Cataluna, who now cultivates her distinctive brand of local humor in new soil — a Honolulu flower and lei shop.

UH Trumpet Ensemble, Manoa Trombones and UH Euphonium Ensemble
When: Saturday, Nov. 21. 4 p.m.
Where: Orvis Auditorium
The UH Trumpet Ensemble and Manoa Trombones are proud to present an afternoon of compelling chamber music for trumpets, trombones and a combination of the two. Also featured will be the UH Tuba/Euphonium Ensemble, under the direction of David Saltzman. $6-10.

Drama and Song Festival present a folklo

Sunset Jazz, Etc.
When: Sunday, Nov. 21. 5 p.m.
Where: Great Lawn, La Pietra
Enjoy classic jazz standards from the 30s and 40s with Hawai‘i’s signature sites. $30.

Films

“Outfoxed”
When: Monday, Nov. 15. Noon and 4:05 p.m.
Where: Orvis Auditorium
Outfoxed is an intense examination of Fox News and the lie inherent in its favorite motto: “Fair and Balanced.” This 80-minute film describes the dangers of ever-enlarging corporations taking control of the public’s right to know. Outfoxed explores Rupert Murdoch’s burgeoning kingdom and the impact on society when a broad swath of media is controlled by one person. This documentary reveals how Fox employees were forced to push a “right-wing” point of view or risk their jobs.

“Fahrenheit 911”
When: Monday, Nov. 15. 1:40 p.m. and 5:40 p.m.
When: Orvis Auditorium
Fahrenheit 911 won Best Picture at the 2004 Canne Film Festival. The movie presents a searing examination of the role played by money and oil in the wake of the tragic events of 9/11. Academy Award-winner Michael Moore (2002, Best Documentary, “Bowling for Columbine”) blends captivating and thought-provoking footage with revealing interviews, while balancing it all with his own brand of humor and satire.

Khmer Film: Katanho
“Gratefulness”
When: Tuesday, Nov. 16. 6:30 p.m.
Where: Koren Studies Auditorium
Based on a true story, “Katanho” is a story of a girl’s fight for her poor family’s survival. After the father’s death and the mother being sick, the girl has to find work after school while taking care of the sick mother and a blind grandmother.

“Weather Underground”
When: Wednesday, Nov. 17. 7 p.m.
Where: St. John Auditorium, as part of the “Take Back Democracy” film series.

Talks/Forums

“Can We Dissolve Traffic Gridlock?”
When: Wednesday, Nov. 17. Noon - 1:30 p.m.
When: Campus Center 309
The panel members will explore urban mobility alternatives to meet O‘ahu’s traffic crisis.

“North Korea/Proliferation Security Initiative”
When: Thursday, Nov. 18. Noon - 1:30 p.m.
Where: Campus Center 310
The panelists will discuss the status of North Korea’s nuclear program, recent developments involving North Korea and the U.S., and the U.S. Proliferation Security Initiative that intends to stop transport of weapons of mass destruction and related materials.

“Doing Fieldwork in Japan”
When: Saturday, Nov. 20. 10:30 - 11:30 a.m.
Where: Kaukendall 410
Patricia Steinhoff is professor of sociology at UHM, with a research focus on social movements in Japan.

Opportunities

John Young Scholarship in the Arts
The purpose of The John Young Scholarship in the Arts is to provide assistance to up to seven undergraduates (up to seven seniors and up to seven graduate students). Graduate students are awarded $5,000 each and undergraduate awards are $3,000 each.

Eligibility: Classified Arts & Sciences graduate student pursuing a degree in any field related to the arts or undergraduate junior or senior with a declared Arts & Sciences major in a field related to the arts; graduate of a Hawai‘i high school (undergraduate only); preference to graduates of a Hawai‘i high school (graduate only); some degree of financial need; and in academic good standing at the UHM. Deadline: Nov. 24, 2004.

UH Japanese Studies Endowment Competition
Applicants must be permanent U.S. residents and regular faculty at UH. Priority is given to proposals that focus on Japan and its heritage. Applications may be obtained from the Center for Japanese Studies, Moore Hall 216 or downloaded from the Web site at www.hawaii.edu/cjs/funding.html.
Applications must be submitted to the Center for Japanese Studies by Nov. 19.
Dear Amorous Asian,

Although interracial dating remains a hot topic, it is becoming more accepted in American society. Today, many people are choosing to think outside the box and date outside their race in search of true love.

As you should already know, love is color blind and it cannot distinguish between Asian, Caucasian, African-American or Hispanic.

While I respect your family’s decision to uphold cultural traditions, I challenge you not to limit yourself to Asian adoration — neither should you limit yourself to Caucasian companionship. It won’t be easy to undermine your family’s beliefs, but the choice is yours and the name of the game is boldness.

If Asian admiration is what rocks the boat in your family, then perhaps you should keep the peace and uphold the tradition. But I must warn you that doing so will only cause an internal uproar for you.

On the other hand, if you want to experience love on a different level, then go after your Caucasian cat woman. Go ahead. I dare you to get bold and go after a Caucasian woman who makes your heart whisper “meow.”

Maybe you will find that she isn’t all that you thought she was cracked up to be. Maybe you will find that she is the woman of your dreams. Nevertheless, dating her is the only way to find out.

But don’t limit yourself to the physical attraction of a woman. Pursue a woman who is attractive both physically and intellectually. Familiarize yourself with her goals and her beliefs. Challenge you to make love to her mind.

You must be aware that this type of woman exists in every ethnicity. But since you have your heart set on dating Caucasian women, go for it. Approaching one should not be any different from approaching any other woman. A woman is a woman no matter what her racial composition is. If you know how to approach an Asian woman, chances are you have the necessary skills to approach any woman.

The same idea applies to physical attraction. Let me give it to you simple and straight to the point: You can tell if a Caucasian woman likes you the same way that you can tell if an Asian woman likes you. There is no difference.

As far as wooing a woman is concerned, the rules are quite universal — according to my limited knowledge on world culture that is. Most women desire honesty and respect from a man. So if you possess those qualities and if you are a man of integrity, then the ball is in your court.

Don’t concern yourself with your family’s lack of approval. I am sure that their unconditional love for you will outweigh your decision to pursue your own happiness.

Don’t occupy your thoughts with the stares and glares that you will get from others. Trust me, they won’t hate on you because you are traitor, they will hate on your ability to think outside the box.

If anyone ever says something to you, tell them not to hate the player but to hate the game!

Sincerely,

Amorous Asian
Wal-Mart a community rip-off

By Leah Ricker
Ka Leo O Hawai‘i Associate Opinion Editor

The reality of many of the theories and actions stands as Mount Everest stands before a blind person, plays as Debussy’s Arabeusque is performed on a radio for a deaf person. It perseveres patiently, shod in none of the deceptive and gossamer threads of the careless magicians trying to distract us from what faces us, peoples of every generation. Reality refuses to move, in fact it cannot be altered any more than Everest can be hidden or Debussy’s music forgotten.

Reality seems to bite us in the face when we walk into a store to buy our school supplies for less than $1, for that is when I am buying my $2 socks and hope to glance up and see a certain yellow face insistently smiling, seemingly ready at any moment to begin cheering. “Buy more, buy more, buy more now! You haven’t consumed nearly enough!”

Is anyone else sick of seeing that Wal-Mart logo? Is anyone else walking around in shock that such a small world and hearing about the furtive “success” of this corporation that seems to throw back to the 19th century robber baron days, but that would be unfair to the real robber barons. They were, after all, acting on society’s standards of employee treatment. Wal-Mart does not allow unions. Wal-Mart does not even allocate money for most workers to have health insurance. Wal-Mart know-no-thing about documented aliens because they are able to pay them less than the national minimum wage. Until they are caught, like in Arizona, when 36 undocumented alien bodies were found to be employed in Wal-Mart stores.

The theories provided by the researchers tell us that people for engaged in a collectiv-ist setting is an oral or written suppression. Censorship is an amazing effective means to muddle dissenters, a means of curbing ideas from infiltrating the minds of those who have yet to close them to a reality sitting before them.

Company policy at Wal-Mart talks of unions, and non-union organizers are thrown out of the stores. The organizers covertly try to leave union material near the doors of Wal-Mart for workers to find. Wal-Mart spokesperson Mona Williams said managers are told to squash union movements because “Our philosophy is that only an unhappy associate would be interested in joining a union, so that’s why Wal-Mart does everything it can to make sure that we are providing our associates with what they want and need.”

According to an article in the Los Angeles Times, within the past four years alone, the National Labor Relations Board has placed claims of multiple attempts by Wal-Mart to destroy union opportuni-ties.

Out of all these allegations held up in court with judges ruling that Wal-Mart has “illegally influ-enced employees’ choices by promising of pay raises, promotions, etc. over the guarantee of unions.”

With 1.2 million workers in the United States alone, it is per-tinent that certain basic rights are guaranteed to employees of all workplaces, especially if a corporation would be the 31st rich-est corporation in the world by its 2002 profits of $245 billion. Additionally, within the next three years, Wal-Mart hopes to add another 800,000 jobs to their work teams.

Wal-Mart is currently being sued in 40 different cases in 25 states for breaking labor laws. The Web site www.intellectual-poison.com reports that one of these lawsuits was filed by the Equal Employment Opportunity Commission concerning dis-crimination against the disabled in Arizona. Wal-Mart ended up paying out $750,000, and was also ordered to run commercials of apology.

According to James Hightower’s “Thieves in High Places,” Wal-Mart employees are not given health insurance until after their second year of employment, which breaks down to approximately 38 percent of employees being covered. When the average cost of a policy is greater than $12,000, they are unable to cover their own medical lapses.

For example, while Wal-Mart seems to care little about medical insurance, they place great empha-sis on life insurance. It seems odd at first glance to hear of any com-pany going to such pains to take out life insurance (yea, 350,000 policies) instead of the necessary steps to make sure that life insurance won’t have to be paid out.

This “life insurance was, in fact, taken out so Wal-Mart would be the beneficiary of the policies. Kinds creepy, no? Really, I would look over my back if I was working at Wal-Mart and my boss told me to go into the basement to collect something, I might leave that basement in one of the policies. glasses."

According to www.ufcw135.org, a Texas union Web site, Wal-Mart took out life insurance policies in 1993 in Texas, nam-ing the employees in question as the beneficiaries. The researchers carefully removed the names.

The theories provided by the researchers for such an occurrence was Wal-Mart pays less and offers fewer benefits than local rival businesses. As more and more local businesses fall out of the competition range, people are forced to work at Wal-Mart.

As a Wal-Mart customer, let’s say you spend $5 for a book. That book may have been $15 at a local bookstore, so you saved $10. After you finish putting yourself on the back, you read the book and continue on with life. A few months later April comes along and it’s time to file taxes. At this point, you’ve probably forgot-ten all about the book, but Uncle Sam hasn’t. That $10 you saved is not tax saved at all because you’ve already given it away two- fold to the welfare system. The people who sold you that book are likely supported by that welfare system. It’s difficult to survive on $11,000 a year, or even $22,000 if there is a couple working full-time at Wal-Mart. By saving yourself a temporary $10 at a store, you spent much more to support the people who are going to be interested in joining a union, so that’s why Wal-Mart does every-thing it can to make sure that we are providing our associates with what they want and need.”

I have to wonder what kind of conclusion we can derive from such facts. I was amazed myself when I only superficially searched and found such grime connected to such an innocent store.

I wonder about this idea of “competitive wages.” First, the idea alone strikes me as oxymor-onic when it is the lowest paying of jobs, jobs barely skimming the national minimum wage that touch themselves, paying themselves, paying their employees. Second, applicable to Wal-Mart, it has been consistently demonstrated that in nearly every opportunity possible, this corporation has outsourced to developing nations when it appeared American work-ers would have been paid a decent salary.

This reality will not go away, no matter how far we go to import our goods, no matter how many times people speak for this corporation tell us its the best solution for the good of the economy. There is much more information out there in regard to the lives and economies Wal-Mart has broken.

Additionally, the kind of “archeologi-ast” it hired to evacuate the area near Ala Moana are paid to tell us there is nothing of significance to be found. I strongly encourage everyone out there to check out some of the thousands of discrepan-cies involved with Wal-Mart before venturing out there for the next shopping trip. The facts may or may not surprise you, since this is just one corporation out of thousands, but they are worth knowing. Those “everyday low prices” are coming out of your pocket, regardless of what state you claim residence in.
Tech advances top kid-powered imaginations

By Morgan Dawson
Ka Leo Staff Columnist

When I was two, three and four years old, my favorite toys were my Cabbage Patch doll, my tricycle and my mother’s pots and pans (provided I had a powerful wooden spoon of course). I didn’t know or even care about the TV, the VCR or any other electronic gadget. My older brothers’ Atari seemed like a horrid waste of a beautiful afternoon of sunshine in South America when I grew up, and even though they were 7 and 9 years old, the Atari rarely held their attention longer than 15 minutes unless it was raining.

Nowadays, what 2- to 5-year-old even needs to go outside? Look at the plethora of appealing indoor technological activities available to them! They have TVs, DVD players and tons of cartoons, not to mention computer software now produced for kids. At 21 years old, I am an idiot when it comes to computers, while my 2-year-old nephew could probably deftly drag a hard drive and recite what kind of Norton software is hot this season.

That was a bit of an exaggeration, but the fact that the technology market aimed at 2- to 5-year-olds is growing exponentially is not. Take, for example, the V.Smile TV Learning System from V. Tech Electronics North America that is now sold in stores. Despite the oversized buttons, neon-bright coloration and the fact that it stands on four purple feet, it is built in the same configuration as the consoles on the PS2, X-Box and Game Cube. The company claims they are trying to make products that will “help mom” and be educational (I’m sure the ridiculous amounts of money they are making off of toddlers have nothing to do with it.)

According to the New York Times, a recent study showed that one-half of kids between 4 and 6 play video games — some play several times a week — and that 14 percent of kids 3 and under have also played video games.

Anybody who “games” knows that the big sellers this year are Halo 2, the new Metal Gear and the latest version of Grand Theft Auto. However, since it is unlikely that most parents would be willing to buy these often violent and rather vulgar games for their toddlers (we hope), most companies have smartened up and have started releasing games with kid-friendly characters like Mickey Mouse and Sponge Bob Squarepants.

Yet another high-tech gadget that was not originally aimed at small children, but is very popular among them, is the EyeToy. Originally, this U.S.B. camera was designed as a PS2 accessory, but kids are getting to be the crackjackers with it as it is easier to use than the multi-buttoned control pads. All the child has to do is move in front of the camera to navigate through the eye-popping and mind-bumbing technological fantasyland. Companies like Sony Computer Entertainment America, THQ and VTech are hard at work designing and constructing more of these so-called educational video games for kids.

These companies claim that kids aged 2 to 6 are going to soon represent the most profitable margin of their marketing, and that games that focus on this age group as its target audience may one day outsell even the Halos and the Grand Theft Auto’s of the older generations. Not to mention the fact that these companies are also building a solid client base for their more mature video games because those who “game” early are likely to be “gamers” for life. I cannot imagine calling my 2-year-old nephew a “gamer”!

Since when did things like “virtual coloring” and “push the correct button to open the door on the screen” become more educational and preferable to real coloring and running around outside on a real playground instead of one that is made of megapixels? Since when did watching three to six hours of TV a day (now very common among kids aged 2 to 6) become more fun than hanging out with friends at the playground, waiting for the tell-tale sound of the ice cream truck or riding bikes? Since when did kids stop being kids?

In the past decade or so, we have seen a decrease in children’s performance at school and a drastic drop in levels of reading, writing and arithmetic. I used to work as a professional nanny and am appalled at even fourth grade kids’ lack of reading skills. I cannot understand how a teacher can tell a parent that because their child does not sit still and pay attention in class he or she must have ADD or ADHD then recommend the child be medicated. Yet that child comes home from school and has the ability to sit very quietly for four hours playing video games with no problem. Something is very wrong with this picture and it ain’t the digital cable.

I know it is inevitable that technology advances and that society must keep up, but what about the children? What is going to be the long-term effect of more time spent in front of the TV or computer instead of being in the sunshine and fresh air, running around and using their imaginations to make up their own adventures? Only time will tell, but in the meantime, I’m going to give my nephew a non-computerized computer.

The Ka Leo Opinions Desk is currently seeking columnists who specialize in the following fields:

- Local / National / International Politics
- Japanese Society / Culture
- Nutrition / Health / Medicine
- Biotechnology
- Information and Computer Science
- Philosophy
- Gender Studies
- General Commentary

Before applying, have a writing sample representative of the type of column you want to apply for ready to fax in with your application. Applicants in specific fields (other than general commentary) must demonstrate a working knowledge of their field of specialization as well as a passion to write. Because the Ka Leo Opinions Desk is currently receiving applications, we are unable to respond to all inquiries. If you would like to submit an article, please e-mail it to kaileo@hawaii.edu.
For more opportunities and UH-related events, visit our Web site at www.kaleo.org.

COMICS & CROSSWORD

Page 6 | Monday, November 15, 2004

Ka Leo O Hawai'i

CLASSIFIEDS

The Ka Leo Building

SOLUTIONS FOR 11/12/04

STICK FIGURES RULE!!! Especially when I'm lazy 😁

Rates: $1.25 per line (minimum 3 lines).
All caps and/or bold will add 25% to the cost of the ad. 
Place an ad in four (4) consecutive issues and receive the 
fourth ad free!
Deadline: 3 p.m. the day before publication.
Payment: Pre-payment required. Cash, in-state checks, money orders, Visa and MasterCard accepted.

For more opportunities and UH-related events, visit our Web site at www.kaleo.org.
Joshua Jordan, a UH sophomore who moonlights as a comedian, gets his crowds up to laugh at the weekly “Sharkey’s Comedy Club,” which is every Tuesday, Wednesday and Thursday at Blue Tropix on Kapahulu Blvd. The Comedy Club has an “Open Mic” session before the regular show and interested comedians should be at the door before 7:30 p.m. For more information, contact Sharkey’s at 531-HAHA.

Change the channel, or change your perspective. „You decide.”

Sketch by Calvin McMillin

If you would like to submit a sketch, please drop it off to Campus Editor Beth Fukumoto at the Ka Leo Building.
**Bulldogs bite back UH Warriors**

*Brady Flores | (808) 956-3215 | sports@kaleo.org*

**Hawaii vs Fresno State**

**(Nov 12, 2004 at Fresno, Calif.)**

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**Tale of the tape tells story of 71-14 loss to Fresno State**

*Ka Leo Staff*

Sometimes, the stats do tell the truth. In a loss that rivals that of Hawaii’s 69-3 loss at Boise State a few weeks ago, the Warrior football team was crushed by Fresno State Friday at Bulldog Stadium, 71-14.

The Bulldogs, who had lost four of the last five meetings between the two teams, made up for those losses in one game, putting up 679 yards of total offense, 563 of which were on the ground.

With the loss, Hawaii’s finished Western Athletic Conference play at 4-4, 4 overall. The Bulldogs improved to 3-3, 6-3 overall.

The 70 points was the most scored against Hawaii since 1949, when UH lost to Pacific 75-0.

Fresno State’s Bryan Sunlin led his team with 220 yards rushing, scoring three touchdowns on the ground, all in the first half. Wendell Mathis added 176 rushing and also scored three touchdowns.

Most surprisingly, however, was that the Bulldogs gained more yards on the ground than Hawaii. Warrior quarterback Timmy Chang completed 26-of-43 passes, put up only 167 yards and one touchdown. Bulldog quarterback Paul Pinegar threw for 176 yards on just eight completions. He had pass completions of 44 and 42 yards. Hawaii’s longest pass was a 14-yard gain by Brower.

A 3-yard touchdown pass from Pinegar to Adam Jennings closed out the second quarter, leaving the score at 49-0 at halftime.

Hawaii’s got on the board early in the third quarter on an 18-yard run by Manager Brewster. The senior finished with 101 yards on the ground.

Senior slotback Chad Owens caught six balls for 30 yards, breaking the school record for career all-purpose yards. He now has 4,586 all-purpose yards in 39 career games.

After completing their road schedule at a woful 0-4, the Warriors finish up the 2004 season with a 3-7 home record, with the Idaho Vandals playing the Warriors on Saturday. Kickoff is at 6:05 p.m. at Aloha Stadium.