

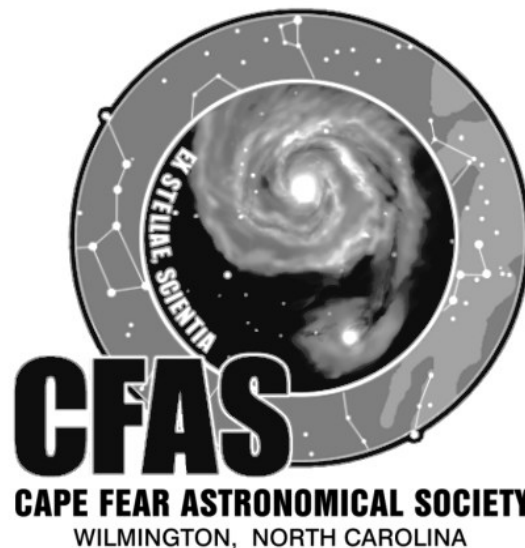
# Cape Fear Skies

*The Official Newsletter of the  
Cape Fear Astronomical Society  
Wilmington, North Carolina*

*A Member Society of the Astronomical League*

Volume 21 no. 11      ★      November 2006

[www.capefearastro.org](http://www.capefearastro.org)



*This Month's Meeting –  
Sunday, November 5, 2006*

Bryan Auditorium in Morton Hall  
on the UNCW Campus

The business meeting of  
the Cape Fear Astronomical Society  
will begin at 7:00 pm.

The general meeting will begin at 7:45 pm.



**Gastronomy!**

Please join us for dinner before the meeting  
at IHOP on Market Street at 5:15pm!



Editor: Ric Longren  
6612 Shire Road  
Wilmington, NC 28411



# Cape Fear Astronomical Society

Meeting minutes by Letisha McLaughlin, CFAS Secretary

## Meeting Minutes for the October CFAS Meeting

This month's CFAS business meeting convened at 7:10 pm on Sunday October 1, 2006 in UNCW's Morton Hall Auditorium. There were 17 members in attendance and one guest, Thad Coin, who later asked to become a member. Welcome to the club, Thad!

### Officer's Report:

President Ronnie Hawes announced that he had received a phone call from a woman named Kimberly from Oak Island who wished to join the club as well. He welcomed her attend our monthly meetings, but unfortunately she did not make it Sunday.

Treasurer Ben Steelman stated the club's balance was around \$1,700 and remains solvent.

Vice President Terry Herrin visited Moore's Creek Battlefield recently and has discovered there is now excellent cell phone service in that area. In the past the Yamacraw site, which is near the battlefield, has been infamous for having hardly any or no digital signal at all. He is customer of Alltel and reports that nearly the entire time there he had all five service bars.

Associate Vice President Alan Hilburn announced that Debbie Hayes has a Coulter Optics 13.1 inch telescope possibly for sale. He also suggested club members donate in order to buy the scope for the club.

Secretary Letisha McLaughlin addressed the group concerning the decision regarding a CFAS star party that has been previously discussed. Recently the university's chapter of the Society of Physics Students has become active and is looking for events to attend as a group. The club responded that the decision is still up in the air. However, member Billy Kidney commented that the viewing at Les King's place is amazing and that he and King have considered a members only star party on the grounds. Near Holly Ridge, this land is reportedly some of the best viewing of the dark night sky, according to Kidney. One other option would be to have a somewhat larger star party, one that could include guests, at the Mooretown observing site. One advantage of this idea is that there are picnic tables and also electricity if members decide to have a cookout as well. President Hawes noted he would inquire about this to John Thomas. Billy Kidney pointed out that this site might possibly be flooded.

### New Business:

This year there will be no "Cornucopia" at the Cape Fear Museum due to renovations.

President Ronnie Hawes introduced the club's newest member - Thad Coin.

### Old Business:

President Ronnie Hawes announced Becky Lewis' invitation for the club members to her annual "The Fall" bash in Castle Hayne. This year the celebration was for her son who had returned from serving our country in Iraq. Welcome home!

### Observing Reports:

Alan Hilburn reported viewing the 6-magnitude comet SWAN between the Big Dipper and the constellation Corona. Also, he informed the group that next year will be an exciting time for meteor showers- as much as 400 meteors per hour have been forecasted for some events.

### Officer Nominations:

According to the CFAS constitution, the month of October initiates the first round of officer nominations. The nominees are below:

President- Ronnie Hawes

Vice President- Terry Herrin

Associate Vice President- Alan Hilburn

Secretary- Letisha McLaughlin

Treasurer- Ben Steelman

Newsletter Editor- No nominees presently

After nominations the business portion of the Cape Fear Astronomical Society's October meeting was adjourned at 8:10 PM



News Cluster

- 
- ▶ The next meeting of the Cape Fear Astronomical Society is November 5 starting at 7:00 pm.
  - ▶ The Mid Atlantic Star Party was held from Oct 16 – 22 at its new location outside of Robbins NC. It got off to a wet start but finished with spectacular viewing Friday and Saturday nights. CFAS had a good turnout with a total of 12 members and family attending (see photos starting on Page 3).
  - ▶ Nominations of 2007 CFAS officers continues in November. The officer positions are: President, Vice President, Associate Vice President, Treasurer, Secretary and Editor. If you're interested or know someone who is, by all means come to the November meeting and nominate.
  - ▶ This years Christmas party will be hosted again by Billy Kidney and Family. The date will be determined at the November meeting.

## Event Calendar for November 2006

November 3	Moon at perigee (224,064 mi) 6:49 pm
<b>November 5</b>	<b>CFAS May Meeting 7:00 pm</b>
November 5	Full Moon, 7:58 am
November 8	Mercury is in inferior conjunction at 5 pm, transits the Sun starting at 2:12 pm
November 12	Last quarter Moon, 12:45 pm
November 15	Moon at apogee (251,776 mi) 6:20 pm
November 17	Leonid meteor shower peaks after midnight
<b>Nov 17/18</b>	<b>CFAS Group Viewing Sessions</b>
November 20	New Moon, 5:18 pm
<b>November 23</b>	<b>Thanksgiving Day</b>
<b>Nov 24/25</b>	<b>CFAS Group Viewing Sessions</b>
November 28	First Quarter Moon, 1:29 am

All times are EST

### Astronomical History During the Month of November

Date	Milestone
Nov 4, 1572	Tycho Brahe sees supernova brighter than Jupiter in Cassiopeia: brightest supernova observed in past 900 years
Nov 12, 1980	Voyager 1 flies past Saturn
Nov 13, 1971	Mariner 1 becomes first spacecraft to orbit Mars
Nov 16, 1970	Luna 17, first wheeled vehicle on Moon



CFAS welcomes new member:  
**Thad Coin**  
**PO Box 3098**  
**Wilmington, NC 28403 – 3098**  
**Ph: (910) 520-1603**



News from Our Sister  
 Society Down Under  
[Astronomical Society of Albury](#)  
 - Wodonga

### Astronomical and related images/matters.

- **David Thurley** gave a short talk about an Observatory he recently visited in France while on holidays. He met the Director who wished to have contact with our Society and their approximately 40 astronomers.
- **Petra de Ruyter** presented an excellent discussion about Carolyn Shoemaker and her comet discoveries.

- **David Thurley** presented a talk, supported by computerized images, of the sundials he saw while recently in Sorbonne, France.
- **Bob Price** presented images of the full Moon and conducted a test on how many of the 12 mares (seas) members could name.

### Fall's Top Galaxies

Name	R.A.	Dec.	Mag.	Size
NGC 55	0h15m	-39°13'	8.1	31' by 6'
M31	0h43m	41°16'	3.5	189' by 62'
NGC 253	0h48m	-25°17'	7.6	29' by 7'
NGC 300	0h55m	-37°41'	8.1	20' by 13'
Sculptor Dwarf	1h00m	-33°42'	8.8	66' by 48'
NGC 488	1h22m	5°15'	10.3	5.4' by 3.9'
M33	1h34m	30°39'	5.5	69' by 42'
M74	1h37m	15°47'	9.1	10.5' by 9.5'
NGC 676	1h49m	5°54'	11.9	4' by 1'
NGC 772	1h59m	19°00'	10.3	7.2' by 4.3'
NGC 891	2h23m	42°21'	10.1	11.7' by 1.6'
NGC 1055	2h42m	0°27'	10.6	7.6' by 2.7'
M77	2h43m	-0°01'	8.9	7.1' by 6'
NGC 1097	2h46m	-30°17'	9.5	9.4' by 6.6'
NGC 1291	3h17m	-41°06'	8.5	11' by 9.5'
NGC 1300	3h20m	-19°25'	10.4	6.2' by 4.1'
NGC 1365	3h34m	-36°08'	9.3	11' by 6.2'
NGC 1399	3h38m	-35°27'	9.4	6.9' by 6.5'
NGC 1404	3h39m	-35°36'	10.0	3.3' by 3'
NGC 1421	3h42m	-13°29'	11.4	3.4' by 0.8'
NGC 2403	7h37m	65°36'	8.2	17.8' by 11'
NGC 6503	17h49m	70°09'	10.2	7' by 2.5'
NGC 7331	22h37m	34°25'	9.5	10.5' by 4.2'
NGC 7320	22h36m	-12°27'	12.7	2.2' by 1.1'

### Photo Gallery

This month's photo gallery is dedicated MASP 2006. This year's star party was held outside Robbins, NC. CFAS had a good turnout with the following members and family attending: Tony Cortese, David East and family, Bob Fetterman, Tom Jacobs, Billy Kidney and daughter Sammy Jo, Les King, Ric Longren and Rich Williams.



The CFAS Gang



Dave East and Family



Trailer & RV City



Registration with Tom and Bill Jacobs



Four Vendors and Meade Reps attended



Rain Rain Go Away . . .



Sammy Jo Kidney relaxing



Tent City



Small Pond –Didn't see anyone fishing

# Sudoku 4, 54, 144, 334, 524

More sudoku from easy to nearly impossible. Complete the grid so every row, column and 3 x 3 box contains every digit from 1 to 9 inclusively. Stars indicate level of difficulty. Answers on page 7.

			7	2	4			1
7	8	4	5			2	6	3
2	9					5		
9	1				2		7	
		3	1		6	8		
	6		9				3	5
		6					9	2
1	2	7			9	6	5	4
3			2	6	5			

★★★★☆

	8						1	4
5		6		8	4			
	9				3		2	
4				5				
	2		4		8		5	
				2				9
	4		8				6	
			5	6		2		3
2	6						8	

★★★★☆

	5			4		8	3	
		3			9			5
		2	5					
		9		5			7	
5			8		4			1
	8			7		6		
					2	1		
6			3			7		
	3	8		9			2	

★★★★☆

	1			2		9		
		8	1		7	4		5
4								
						2		1
8			4	6	2			7
3		5						
								9
1		2	9		6	3		
		4		8			5	

★★★★☆

4	1		9	3	5		6	8
3	5		7					
8					1			
			5		2		4	
5								9
	9		6		3			
			1					6
					9		8	7
7	8		2	5	8		9	1

★★★★★

**Supper Sudoku.** Complete the grid so every row, column and 4 x 4 box contains every digit from 0 to 9 and letters from A to F inclusively. Good luck!

A	D				B	7		1		E				4	F
0	9	2	4							8	6	B			1
	E		8				D		2	F	9		5	3	6
3			6		1		C	A				0	E	D	2
	5	B		3	0		7					E	D		
	2		7			F	8	C	1		5	A		9	
						5	B			9		6		F	8
8	A	E	D		6		4	0						1	3
4				F				9		6	1		3		
E	8			2		D	6	3	F					0	
	0		A	8	9		3	5	4		B		F		D
	F				5	B		8	0	D	A	2	4		9
D				B	C		9			0	2		1	A	5
2	6		9		D	0								8	
5	4		1				A	F			C	D		B	
	C	8	B	1		E		6		7					

Solutions:

6	3	5	7	2	4	9	8	1
7	8	4	5	9	1	2	6	3
2	9	1	6	8	3	5	4	7
9	1	8	3	5	2	4	7	6
5	7	3	1	4	6	8	2	9
4	6	2	9	7	8	1	3	5
8	5	6	4	1	7	3	9	2
1	2	7	8	3	9	6	5	4
3	4	9	2	6	5	7	1	8

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3	8	2	7	9	5	6	1	4
5	1	6	2	8	4	3	9	7
7	9	4	6	1	3	5	2	8
4	3	1	9	5	6	8	7	2
9	2	7	4	3	8	1	5	6
6	5	8	1	2	7	4	3	9
1	4	3	8	7	2	9	6	5
8	7	9	5	6	1	2	4	3
2	6	5	3	4	9	7	8	1

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9	5	6	7	4	1	8	3	2
8	7	3	2	6	9	4	1	5
4	1	2	5	3	8	9	6	7
3	4	9	1	5	6	2	7	8
5	6	7	6	2	4	3	9	1
2	8	1	9	7	3	6	5	4
7	9	5	6	8	2	1	4	3
6	2	4	3	1	5	7	8	9
1	3	8	4	9	7	5	2	6

☆☆☆☆☆

5	1	6	8	2	4	9	7	3
2	3	8	1	9	7	4	6	5
4	7	9	6	5	3	1	2	8
6	4	7	5	3	8	2	9	1
8	9	1	4	6	2	5	3	7
3	2	5	7	1	9	8	4	6
7	8	3	2	4	5	6	1	9
1	5	2	9	7	6	3	8	4
9	6	4	3	8	1	7	5	2

☆☆☆☆☆

4	1	7	9	3	5	2	6	8
3	5	6	7	2	8	9	1	4
8	2	9	4	6	1	7	3	5
6	7	8	5	9	2	1	4	3
5	3	2	8	1	4	6	7	9
1	9	4	6	7	3	8	5	2
9	4	5	1	8	7	3	2	6
2	6	1	3	4	9	5	8	7
7	8	3	2	5	6	4	9	1

☆☆☆☆☆

A	D	5	C	6	B	7	2	1	3	E	0	9	8	4	F
0	9	2	4	5	F	3	E	D	C	8	6	B	A	7	1
B	E	1	8	0	A	4	D	7	2	F	9	C	5	3	6
3	7	F	6	9	1	8	C	A	B	5	4	0	E	D	2
9	5	B	F	3	0	1	7	2	6	A	8	E	D	C	4
6	2	3	7	D	E	F	8	C	1	4	5	A	0	9	B
C	1	4	0	A	2	5	B	E	D	9	3	6	7	F	8
8	A	E	D	C	6	9	4	0	7	B	F	5	2	1	3
4	B	D	2	F	7	A	0	9	E	6	1	8	3	5	C
E	8	9	5	2	4	D	6	3	F	C	7	1	B	0	A
1	0	6	A	8	9	C	3	5	4	2	B	7	F	E	D
7	F	C	3	E	5	B	1	8	0	D	A	2	4	6	9
D	3	7	E	B	C	6	9	4	8	0	2	F	1	A	5
2	6	A	9	4	D	0	6	B	5	1	E	3	C	8	7
5	4	0	1	7	8	2	A	F	9	3	C	D	6	B	E
F	C	8	B	1	3	E	5	6	A	7	D	4	9	2	0

*Meetings of the CFAS are held on the first Sunday of  
The month (if holiday weekend or special event, second Sunday)*

*at*

*7:00pm – Bryan Auditorium, Morton Hall, UNCW*

**Group Viewing Sessions** 5194

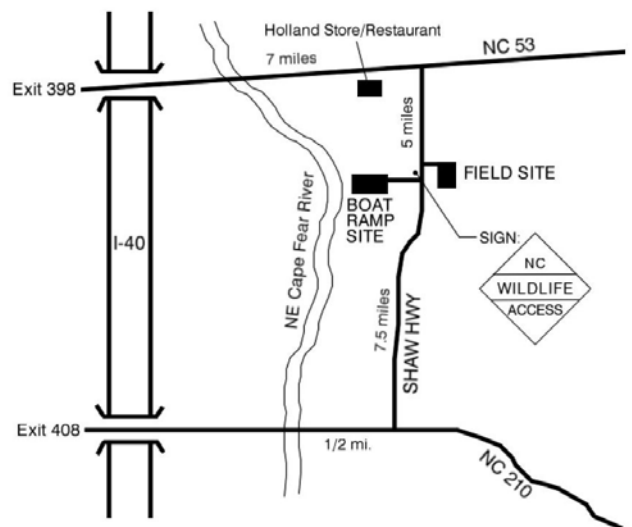
Call Ron Hawes at 762-1033 or check our email list to confirm a formal viewing session. Listed below are moonless nights so you can schedule a good viewing. All group viewing sessions will be at the Holly Shelter boat ramp site, unless otherwise specified. Time: Dusk until ?

Friday, November 17      Saturday, November 18

Friday, November 24      Saturday, November 25

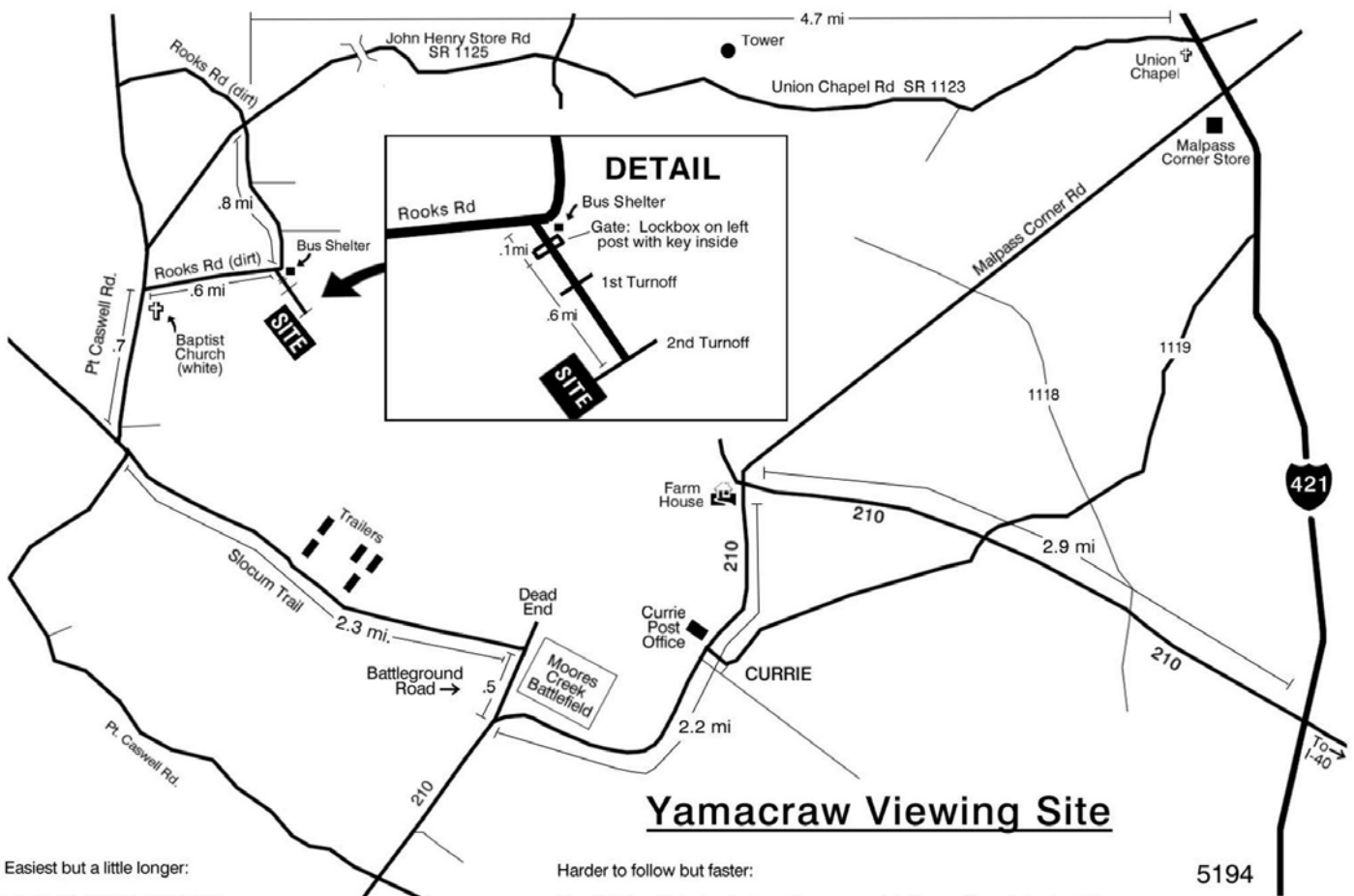
*Please be cautious of unusual wildlife behavior while observing. A golf club or stick could be useful to keep nearby.*

**Holly Shelter Viewing Sites**



Field Site Gate Open:  
September 1 - February 29 and April 7 - May 14.

Please have your Holly Shelter Permit with you at the site.



**Yamacraw Viewing Site**

5194

Easiest but a little longer:

Travel 421 north to truck stop.  
Go approx. 20.5 miles and turn left onto Union Chapel Road.  
Follow for 4.7 miles (becomes John Henry Store Road) and take left onto Rooks Road (dirt).  
Follow Rooks Road .8 miles around curve, pass bus shelter and take left onto our site's road.  
Travel .1 mile, unlock/relock gate, travel .6 miles, take 2nd right.

Harder to follow but faster:

Travel 421 north to truck stop. Go approx. 17 miles and turn left onto 210.  
Follow 210 for 2.9 miles to intersection (stop sign and big white farm house), turn left onto 210 W.  
Follow 210 W past Currie Post Office and Battlefield, turn right onto Battleground Rd.  
Follow Battleground Rd .5 miles, take sharp left onto Slocum Rd, follow for 2.3 miles.  
Take a right onto Pt. Caswell Rd, follow .7 miles past Church, take right onto Rooks Road (dirt).  
Follow Rooks Rd .6 miles, turn right onto our site's road. (If you see the bus shelter, you've gone too far.)  
Travel .1 miles, unlock/relock gate, travel .6 miles, take the 2nd road on the right to our site.