Digital Forensic Case Report

Suspect Name: Mr. John Doe

Investigator: Peter H. Gblorso

Case Number: 2000064/2020

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Summary

The suspect (Mr. John Doe) computing devices were seized and taken to the lab for examination to identify evidence for the crime of which he has been accused (possession of bird materials). Upon examining the accused device, several materials relating to birds was discovered. Multiple images of birds were found on the hard disk drive of the suspect's computer. In addition to the bird images, there were records of internet activities relating to birds watching and email communication between the suspect and several other people regarding birds. The device was also found to contain a website containing instructions about partaking in bird watching. Several guides (PDFs and MS word documents) on birds watching were also discovered on the suspect's disk drive. The total of 170 evidential items were discovered on the suspect's computer this include images, emails, browser activities etc. Of the 170 items, 76 were birds related images. The images can be seen in Appendix T "Recovered pictures"

1.0 Description of Crime

1.1 Crime sequence

1.1.1 First incident

On the 27th of June 2004 between 18:28 and 18:48 hundred and two images were taken from a Canon Powershot camera. 32 out of the 102 were related to birds watching. Appendix A - "Canon Powershot Images" shows the birds related pictures and the metadata (EXIF data) of those pictures can be found in Appendix B.

1.1.2 Second incident

Between the hours 15:02 to 16:59 on the 3rd of February 2005 some webpages relating to birds were visited from a user account bearing the suspect's name and several files were downloaded. Among the files downloaded, the "aa010703a.htm" file stuck interest. This file is a webpage containing pictures and text relating to birds watching. Other files relating to construction of a website were also discovered in the same location (user account bearing the accused name). The webpage can be found in Appendix C "aa010703a.htm" and the browser activities can be found in Appendix D "browser activities".

1.1.3 Third incident

On the 3rd of February 2005 at 16:46 two encrypted files were created. A file named birdpics.gpg and a MS word document with picture of bird embedded in a "doc1.dot" text. Upon decryption the birdpics.gpg file,

it was discovered to contained pictures relating to bird. Appendix E – "birdpics.gpg" shows the content of the birdpics.gpg file. The word document with embedded bird picture can be seen in Appendix U – "embedded pic"

1.1.4 Fourth incident

Several files relating to birds were downloaded between 12:22 and 15:05 on the 3rd of February 2005. Please find the source and destination of those files in the below table.

Table 1 Source and destination of downloaded files

Name of files	Source	Destination
newbies2.jpg	http://peaple.cornell.edu/pages/shah67/newbies2.jpg	C:\Documents and Settings\johndoe\My Documents
chicks2.jpg	http://peaple.cornell.edu/pages/shah67/chick2.jpg	C:\Documents and Settings\johndoe\My
babyscot_2weeks1.jpg	http://freespace.virgin.net/cobber.budgies/images/babyscot_2weeks1.jpg	C:\Documents and Settings\johndoe\My Documents\My Pictures\
babyscot_vyoung.jpg	http://freespace.virgin.net/cobber.budgies/images/babyscot_vyoung.jpg	C:\Documents and Settings\johndoe\My Documents\My Pictures
aggressive_song.wav	http://whyfiles.org/shorties/104chick_sex/images/aggressive_song.wav	E:\birds\audio
ostbk2b2.htm	http:www.cvm.okstate.deu/instruction/kocan/ostrich/ostbk2b2.htm	C:\Documents and Settings\johndoe\My Documents

The "aggressive_song.wav" is file is an audio file and cannot be included in this report, however it is listed in the table 4 - Production List and Associated Description Table. To add to this, the "aggressive_song.wav" could not be recovered because it was downloaded to a removable media. It is worth mentioning that all the downloaded files contained materials relating to birds. Appendix F – "downloaded content" shows the downloaded images. The browser logs which shows that these files were downloaded can also be found in Appendix G – "Firefox bowser log".

1.1.5 Fifth incident

At 11:08 on the 9th of February 2005, a zip file named birds.zip was downloaded to **C:\Documents and Settings\johndoe\My Documents** from http://www.traveltex.com/downloads/screensavers/birds.zip This file could not be recovered because it has been removed. However, an archived version for 15th November 2005 was retrieved. It contained contents of bird. This files can be found in Appendix H -"birds.zip Contents"

1.1.6 Sixth incident

Again, on the 9th of February 2005 five emails relating to birds were received by the accused. When analyzing the emails, it was discovered that there were two way exchanged of materials relating to bird watching between the accused and other people. The emails can be found in appendix I – "Emails".

1.1.7 Seventh Incident

Between 15:01 to 15:04 on the 9th of February 2005, 24 bird related materials were moved to the unallocated space of the disk. This action was purely an attempt to hide the files. The files can be found in Appendix J "Unallocated space"

All of the above incidents clearly indicate that the suspect (Mr. John Doe) is highly likely in violation of the crime for which he is accused (Possession of bird materials). Particularly, incident 1, 3, and 4 shows that the suspect possesses images and other materials relating to birds. It is also likely that the suspect could have been manufacturing and distributing birds related materials because of the presence of the "aa010703a.htm" (contained all files to construct a functional website) and an actual website. The only reason why the file (aa010703a.htm) would be present is if the suspect was involved in construction of the website to facilitate the distribution of bird related materials.

Figure 1 Timeline

Events Timeline

Second Incident 15:02 – 16:49 Browsing Activity	**Fourth Incident** 17:22 – 18:05 Downloads

27/02/2004   03/02/2005   09/02/2005   09/02/2005

02/02/2005   03/02/2005   09/02/2005

First Incident 18:28 – 18:48 Cannon Images

Third Incident 16:46 Encrypted files

Fifth Incident 11:08 Brid.zip files

sixth Incident 11:28 Emails

Seventh Incident 15:01 – 15:04 Unallocated files
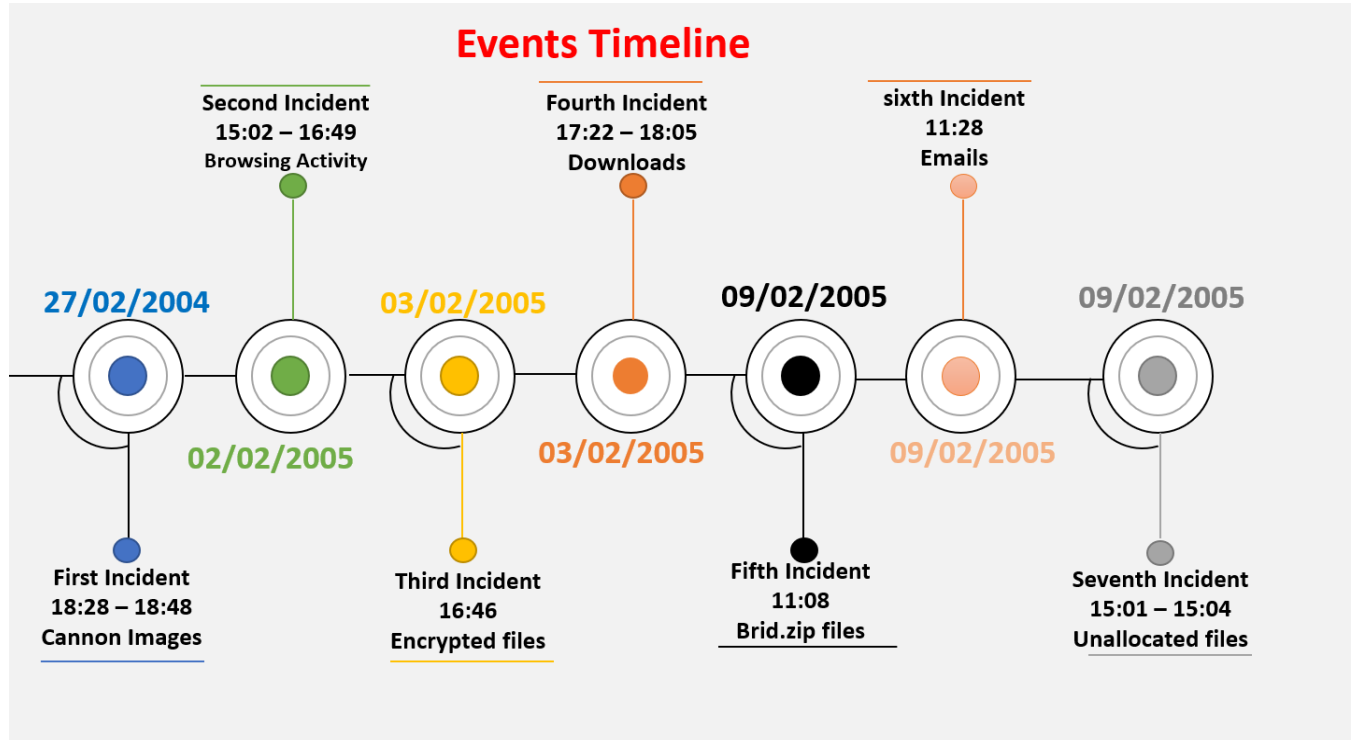
2.0 Investigation Description

2.1 Job Description and Instruction

Mr. John Doe is accused of being involved with possession of bird's materials. Instruction was given by Dr. Ian Ferguson of the Abertay University Forensic Investigation department to seize any computing related device that belongs to the suspect and investigate it using a sound forensic methodology to retrieve evidence that are admissible in court and can be used to support the accusation.

2.2 Description of seized items

Once warrant was obtained to search the resident of the suspect (John Doe), his home was rigorously inspected to identify any device related to the crime. A fully setup computing environment containing a system unit, wireless mouse and keyboard, monitor, and some cables were discovered in one of the rooms of the suspect's resident. Before any of the components were toughed, the entire scene was photographed to account for the initial positions of each item. Next the system was examined to determine if seizing the components would corrupt any evidence, which was discovered not to be the case because the computer was completely shut down. The seized items can be found in the below table.

Table 2 Items seized during investigation

Item no.	Label	Description	Serial Number
Item/01	System Unit	Lenovo ThinkCentre M720q 10T7	SN58940-2209-5877
Item /02	Monitor	Grey/black LED-backlit LCD monitor - 24"	CN-02-rk1y1-74261-477-4dku
Item /03	Mouse	Dell Wireless KM636 Mouse	SN55640-5369-655677
Item /04	Keyboard	Dell Wireless KM636 Keyboard	SN586894-30275-8920
Item /05	Cables	Ethernet Cable Generally, Power Cable Generic VGA Cable	N/A

After seizing the items, they were immediately transferred to a secure storage location and turned over to a custody officer. Please find the chain of custody record in Appendix K - "chain of custody"

The system unit (Item/05) was retrieved from the custody officer by the investigators for examination. The system unit was laid open and the Hard Disk Drive (HDD) was removed. Please find details of the HDD in the below table.

Table 3 Item /06 HDD

Item no.	Name	Description	Serial Number
Item /06	Hard Disk Drive	Dell U738K ST31000424SS 1TB 7.2K 6G 3.5" LFF SAS Hard Drive	SN58940-2209-5877

3.0 Methodology

The system Unit (Item/05) was powered on through a wall socket. Before the boot sequence of the computer began, the Basic Input Output Setting (BIOS) menu was accessed, and the date and time setting were examined to identify any clock skew.

The extracted HDD (item/06) was connected to the forensics workstation using a SATA to USB adapter and the MD5sum of the disk was calculated. Next the HDD was imaged using DD (a command line) tool. The MD5sum of the imaged file was calculated and in comparison, matched that of the original drive which shows that the disk was properly imaged. The capacity and partition information of the disk was then determined. Please note from this point that all the tasks carried out during the investigation was performed on a copy of the image. The reason for this is to preserve authenticity.

The image was mounted using the loopback mounting technique which enabled the filesystem of the image to appear as it would appear in a physical machine or on the suspect machine. Following this a malware

scan was conducted on the image to identify viruses or any malware. The first task that was performed on the copy of the acquired image with regards to evidence search, was a physical search. This was conducted using tools such as Foremost and Autopsy. The goal was to treat the image as a whole file and search for strings of text relating to the crime. This technique filtered and extracted pictures that were taken using a Canon Powershot camera.

Following this, a list of all files present on the imaged disk was created. This list was further narrowed down to only files that were either created, downloaded or transferred by a user of the computer (files created by the OS were ignored). From the list, all pictures and other files relating to birds were extracted and examined. Next, the registry files were extracted from the imaged disk using ubuntu 20.04. The registry files were further analyzed to identify information such as devices that has been attached or connected to the suspect machine as well as software that have been installed. Following this, data from the internet browsers (IE and Firefox) and email clients was also examined.

3.1 Analysis

Upon examining the clock skew of the accused system, it was found to be five minutes more than the actual time. However, this does not affect the finding in this report because five minutes was deducted from the time shown for each evidence/item that was found on the suspect disk. Recordings of the clock skew can be found in Appendix L – "Clock skew".

The operating system discovered to be running on the suspect's machine was Microsoft Windows XP Service Pack 2. It was installed on the 24th of January 2004.

The suspect disk image was examined to identify all the present user accounts. A user account bearing the suspect's name (john Doe) was identified along with five other user accounts. Among those were "administrator", "Bob", "help assistant", "guest" and "Jane". This raises further suspicion that the accused could be the main user of the system given that one of the user accounts (John Doe) is bearing his name. Appendix M – "Account Users" depicts that user accounts found on the suspect system.

The partition information of the image was examined, and it was found that there were three partitions. Of the three partitions, one was formatted to a NTFS file system type. The remaining were unallocated space. The size of all the partition combine summed up to 1,513,054,208 bytes, complementing the 1.5 gigabytes of the image file. The partition information can be found in Appendix N – "Partition information".

A malware scan was conducted on the disk image to rule out or consider the possibility of malware such as viruses or trojan infiltrating the presence of the offensive materials on the disk. The result of the malware scan shows that the disk does not contain malware of any form. Appendix O – "Malware scan" shows results from the malware scan.

3.1.1 Items discovered on the suspect's disk image

3.1.2 Canon Powershot images

The pictures which were taken with a Canon Powershot camera was identified and grouped in one list. These files were identified to be taken with a Canon Powershot camera from their EXIF metadata. In total, hundred-one photos files were identified to be taken by Canon Powershot camera and copy to the suspect system at a go. Of the hundred-one photo files, thirty-two contained materials related to bird watching. However, sixty-nine did not. Appendix A – "Cannon Powershot image" shows all the images.

3.1.3 Birdpics.gpg file

From the "/img_johnDoe.dd/vol_vol2/Documents and Settings/John doe/My documents" directory a file named "birdpics.gpg" was discovered. Generally ".gpg" files are password protected (encrypted) and so was the case with this file. The accused claimed not to remember the password used to encrypt the file. However, a tool called John the Ripper was used to gain access to the file by creating a hash from the suspect private keys and then using a wordlist containing potential passwords to find the correct password which was discovered to be "arran". Upon accessing the birdpics.gpg file there were files relating to birds but could not be accessed because of file error. However, only one file named "WhiteThroatedSparrowTree.jpg" was accessed. This file, along with the names of the other files that could not be opened can be seen in Appendix P- "WhiteThroatedSparrowTree.jp".

File encryption takes a lot of efforts and is always associated with intend to hide something plus it is usually not something accomplished by malware. The fact that these files were found on the user account bearing the accused name shows that he indeed created them.

3.1.4 Email Messages

Five emails were discovered from the default user account that were sent to the suspect's email address. These emails seem to be a two-way exchange between the accused and two others. The emails were discovered in the inbox of a Thunderbird email application. Generally, the emails discussed bird watching and include nine (9) pictures of birds. One of the nine pictures from the emails particularly the picture in email 5 was blurry, the content of the picture could not be identified. The remaining eight pictures were visually pleasing and can be found along with the emails in Appendix Q – "Emails".

Birds to Find

An acknowledgement of completing a task (which was not specified) document named "birds to find" was discovered in the section of the disk bearing the suspect's name. This document is a word document. From

the metadata it shows that the suspect is the author of the document. This indicates that the suspect is the legitimate owner of the computer or has had full access to the computer. The document can be found in Appendix R "Birds to Find"

3.1.5 Other Materials

To add to the above evidence, some important evidence was discovered in the other locations on the disk. For example, a guide (word document) discussing tips for bird watching was found in the second unallocated space (vol3 unallocated: 6136830-11255327) of the disk along with twenty-two pictures relating to birds. The guide can be found in Appendix S "guide.doc" and Appendix T depicts the pictures.

In the "My document" section of the disk bearing the name of the suspect many files pertaining to birds were discovered. Among these files were two files "htm" and "aa010703a.htm" the later is a web page. It is evident that the presence of the "aa010703a.htm" file was an attempt of the suspect to create a website for bird watching because a directory named "aa010703a_files" which contained all the files to make a functional website was also discovered in the same location. The webpage can be seen in Appendix U "webpages".

Three pdf files were recovered from the deleted files directory of the disk. Basically, these files guide on bird watching. They also contained content on birds hunting. These pdf files can be found in Appendix V - "deleted pdf files"

Further, a file named "birdwatching.doc" was found in one of the unallocated spaces of the disk "/img_johnDoe.dd/vol2". The content of this file extensively discussed bird watching. The file was not discovered in the user account bearing the suspect's name however it has been last accessed at same time the other files under the account bearing the suspect's name were accessed. Considering this, it is likely that the file (birdwatching.doc) was accessed by the suspect as only one person can use a device at a time. Appendix W "birdwatching.doc" Appendix X depict the access log of birdwatching.doc.

Table 4 List of Findings Table

No.	Title	Description
E01	Images	Images relating to bird watching (Appendix T)
E02	Emails	Emails from the disk (Appendix I)
E03	Birdpics.gpg	Files recovered from encryption (Appendix E)
E04	Birdwatching.doc	Files recovered form birdwatching (Appendix S)
E05	Browser History	Files recovered from firefox browser history (Appendix G)
E06	Aa010703a.htm	We page discovered (Appendix C)
E07	Doc1.doc	Embedded ms word file (Appendix U)
E08	Audio files	Audio files discovered on the disk

4.0 Conclusion

The total of forty-nine (49) bird related materials were recovered from the suspect's device. These includes, bird photos, audio files, emails and other items relating to birds. The above table shows the recovered bird materials.

Most of the photo files and emails containing birds were discovered from the user account bearing the accused name. Even though some items were discovered in other places such as unallocated space, but they still point back to the accused as all the photo files, emails and other containing birds were created or accessed at the time when the accused was using the system. Further the fact that a user account bearing the accused name is an administrator's account signifies that the suspect could highly likely be the main user of the system.

The browsers history, particularly Mozilla Firefox and Internet Explorer showed multiple records of downloaded materials relating to birds. All of these was done either in the user account bearing the name of the accuse or at the time when the accuse was using the computer.

The fact that the malware scan shows that the disk had no virus or malware that could have otherwise acquired the illicit pictures shows that the accused (Mr. John Doe) is the owner of the contents. The encrypted files containing materials relating to birds discovered in the area of the disk bearing the suspects name is just further confirmation of the suspect ownership to these materials.

4.1 Items for court proceedings
4.1.1 Table 5 Items seized from the accused home

Item ID	Items Name
Item/01	System Unit
Item /02	Keyboard
Item /03	Mouse
Item /04	Cable
Item /05	Monitor

4.1.2 Table 6 Equipment and tools used for investigation

Tools	Purpose
Forensic Workstation	Used for analysis (house all the below software and tools)
Linux Ubuntu OS	Used to loopback mount the disk partition
MD5sum	Used to verify the authenticity of the disk
JohnTheRipper	Used to acquire password for the encrypted files
Gpg	Used to extract files stored in ".gpg" format
Malwarebytes antivirus	Used to scan the disk for malware
Autopsy 4.16.0	Used to view the disk (event) in windows

5.0 Glossary

USB: Universal Serial Bus. A port used to connect an external device to a computer.

Thunderbird: A piece of software used to receive and send emails from a PC.

DD Tool: A tool within the Linux operating system to make copies of files.

Download: To take a file from an internet resource and place it on the computer.

Loopback Mounting: A method of mounting an image file so it appears as it would to the original user.

Thunderbird: A piece of software used to receive and send emails from a PC

Trojan Horse: A malicious piece of software capable of performing actions without the user's knowledge or approval

Unallocated Hard Drive Space: Space on a hard drive not allocated to a filesystem, not seen by a operating system.

Web Browser: A Piece of software used to access websites and web pages.

EXIF DATA: Data about an Image including the date it was taken and which camera was used to take it.

Trojan Horse: A malicious piece of software capable of performing actions without the user's knowledge or approval

Metacam: The tool used to extract EXIF data about an image.

MD5Sum: A checksum used to verify the authenticity of files or file exchanges

Filesystem: A structure of files linked together.

GPG File: A file encrypted with the GNU privacy guard protocol in an attempt to conceal the contents.

6.0 Appendices

6.1 Appendix A - Cannon Powershot Images

01243351.jpg

02791503.jpg

02792151.jpg

02962639.jpg

02963839.jpg

03074343.jpg

03112503.jpg

03180791.jpg

03181927.jpg

03185759.jpg

03186407.jpg

03538975.jpg

05069311.jpg

05475951.jpg

6.2 Appendix B - Metadata

File: 01243351.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:27:53
        Make: Canon
        Model: Canon PowerShot SD100

File: 02792151.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:27:53
        Make: Canon
        Model: Canon PowerShot SD100

File: 02963839.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:46:10
        Make: Canon
        Model: Canon PowerShot SD100

File: 03180791.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:49:50
        Make: Canon
        Model: Canon PowerShot SD100

File: 02963839.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:46:10
        Make: Canon
        Model: Canon PowerShot SD100

File: 02792151.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:27:53
        Make: Canon
        Model: Canon PowerShot SD100

File: 02792151.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:27:53
        Make: Canon
        Model: Canon PowerShot SD100

File: 02791503.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:30:41
        Make: Canon
        Model: Canon PowerShot SD100

File: 02792151.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:27:53
        Make: Canon
        Model: Canon PowerShot SD100

File: 03112503.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:41:45
        Make: Canon
        Model: Canon PowerShot SD100

File: 03186407.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:28:49
        Make: Canon
        Model: Canon PowerShot SD100

File: 03074343.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:46:36
        Make: Canon
        Model: Canon PowerShot SD100

File: 03112503.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:41:45
        Make: Canon
        Model: Canon PowerShot SD100

File: 02791503.jpg
  Standard Fields ----------------------------------
        Image Creation Date: 2004:07:02 17:30:41
        Make: Canon
        Model: Canon PowerShot SD100

6.3 Appendix C - Browsing Activities

URL : ftp://ftp.scarlet.be/pub/mozilla.org/thunderbird/releases/1.0 /win32/en-US/Thunderbird%20Setup%201.0.exe First Visit Date : 24/01/2005 16:28:47 Last Visit Date : 24/01/2005 16:28:47 Visit Count : 0 Referrer : Host Name : ftp.scarlet.be Title : Record Index : 8 Visit Type :

URL : http://amos.shop.com/amos/cc/main/catalog/pcd/7107298/ prd/10187717/ccsyn/518/_x_/Choices-Direct---MoviesBird-Safari---Bird-Watcher's-Paradise-VIDEO\ First Visit Date : 02/02/2005 14:20:19 Last Visit Date : 02/02/2005 14:20:19 Visit Count : 0 Referrer : Host Name : amos.shop.com Title : SHOP.COM - Bird Safari - Bird Watcher's Paradise from Choices Direct - Movies is available in Documentary Record Index : 43 Visit Type :

URL : http://ardownload.adobe.com/pub/adobe/reader/win/7x/7.0 /enu/AdbeRdr70_enu_full.exe First Visit Date : 02/02/2005 16:53:13 Last Visit Date : 02/02/2005 16:53:13 Visit Count : 0 Referrer : Host Name : ardownload.adobe.com Title : Record Index : 140 Visit Type :

URL : http://as.casalemedia.com/s?s=53524&u=http%3A//www.n aturewallpaper.net/birds_L.html&f=2&id=5780 266264.517 584 First Visit Date : 02/02/2005 14:15:51 Last Visit Date : 02/02/2005 14:15:51 Visit Count : 0 Referrer : Host Name : as.casalemedia.com Title : Record Index : 29 Visit Type :

URL : http://asg36.casalemedia.com/s?s=53524&u=http%3A//w ww.naturewallpaper.net/birds_L.html&f=2&id= 5780266264 .517584 First Visit Date : 02/02/2005 14:15:56 Last Visit Date : 02/02/2005 14:15:56 Visit Count : 0 Referrer : Host Name : asg36.casalemedia.com Title : Record Index : 31 Visit Type :

URL : http://birding.about.com/cs/birdhousesfeeders/a/buildingin dex.htm First Visit Date : 02/02/2005 14:24:42 Last Visit Date : 02/02/2005 14:24:42 Visit Count : 0

Referrer : Host Name : birding.about.com Title : Free Feeder and Birdhouse Plans Index Record Index : 76 Visit Type :

URL : http://birding.about.com/cs/buildhouses/index.ht m First Visit Date : 02/02/2005 14:24:32 Last Visit Date : 02/02/2005 14:24:32 Visit Count : 0 Referrer : Host Name : birding.about.com Title : Record Index : 71 Visit Type :

URL : http://birding.about.com/library/blalphatypeofbir d.htm First Visit Date : 02/02/2005 14:23:56 Last Visit Date : 02/02/2005 14:23:56 Visit Count : 0 Referrer : Host Name : birding.about.com Title : Alphabetical Index of Birds Record Index : 62 Visit Type :

URL : http://birding.about.com/library/blhousefeederpa int.htm First Visit Date : 02/02/2005 14:26:43

Last Visit Date   : 02/02/2005 14:26:43 Visit Count   : 0 Referrer   : Host Name   : birding.about.com Title   : Birding and Birdwatching - Painting or Staining Bird Houses and Feeders Record Index   : 86 Visit Type   :

 URL   : http://birding.about.com/library/blhousespecs.htm First Visit Date : 02/02/2005 14:24:18 Last Visit Date   : 02/02/2005 14:24:18 Visit Count   : 0 Referrer   : Host Name   : birding.about.com Title   : Specs for Building Birdhouses and for use in Bird House Plans Record Index   : 67 Visit Type   :

 URL   : http://birding.about.com/library/weekly/aa010703a.htm First Visit Date : 02/02/2005 14:24:55 Last Visit Date   : 02/02/2005 14:24:55 Visit Count   : 0 Referrer   : Host Name   : birding.about.com Title   : Birding and Birdwatching - Build a Bluebird Nest Box for Wild Birds Record Index   : 81 Visit Type   :

 URL   : http://birding.about.com/library/weekly/aa102598.htm First Visit Date : 02/02/2005 14:23:04 Last Visit Date   : 02/02/2005 14:23:04 Visit Count   : 0 Referrer   : Host Name   : birding.about.com

Title   : Wings of Terror - avian humor article for people interesting in birdwatching and others interested in birds Record Index   : 55 Visit Type   :

 URL   : <mark>http://birding.about.com/od/buildhouses/ First Visit Date : 02/02/2005 14:24:32 Last Visit Date   : 02/02/2005 14:24:32 Visit Count</mark>   : 0 Referrer   : Host Name   : birding.about.com Title   : How to Build Bird Houses and Nest Boxes Record Index   : 72 Visit Type   :

 URL   : <mark>http://birding.about.com/od/storie1/ First Visit Date   : 02/02/2005 14:22:38 Last Visit Date   : 02/02/2005 14:22:38 Visit Count</mark>   : 0 Referrer   : Host Name   : birding.about.com Title   : Bird Stories and Tales Record Index   : 45 Visit Type   :

 URL   : http://clk.about.com/?zi=18/yV&sdn=hobbies_birding&tm= 20&f=00&su=p512.6.140.ip_p512.12.140.ip_&tt=0&zu=htt p%3A//birding.about.com/library/blhousespecs. htm First Visit Date : 02/02/2005 14:24:18 Last Visit Date   : 02/02/2005 14:24:18 Visit Count   : 0 Referrer   : Host Name   : clk.about.com Title   : Record Index   : 66 Visit Type   :

 URL   : http://clk.about.com/?zi=18/yV&sdn=hobbies_birding&tm= 51&f=00&su=p512.6.140.ip_p512.12.140.ip_&tt=0&zu=htt p%3A//birding.about.com/library/blalphatypeofbird.htm First Visit Date : 02/02/2005 14:23:56 Last Visit Date   : 02/02/2005 14:23:56 Visit Count   : 0 Referrer   : Host Name   : clk.about.com Title   : Record Index   : 61 Visit Type   :

 URL   : http://clk.about.com/?zi=18/yW&sdn=hobbies_birding&tm= 107&f=00&su=p512.6.140.ip_p512.12.140.ip_ &tt=0&zu=ht tp%3A//birding.about.com/library/blhousefeederpaint.htm First Visit Date : 02/02/2005 14:26:43 Last Visit Date   : 02/02/2005 14:26:43 Visit Count   : 0 Referrer   : Host Name   : clk.about.com Title   : Record Index   : 85 Visit Type   :

 URL   : http://download.mozilla.org/?product=thunderbi

rd&os=win &lang=en-US First Visit Date : 24/01/2005 16:28:47 Last Visit Date : 24/01/2005 16:28:47 Visit Count : 0 Referrer : Host Name : download.mozilla.org

Title : Record Index : 7 Visit Type :

URL : http://freespace.virgin.net/cobber.budgies/stories/scottie_a .html First Visit Date : 03/02/2005 14:59:56 Last Visit Date : 03/02/2005 14:59:56 Visit Count : 0 Referrer : Host Name : freespace.virgin.net Title : Scottie's Baby Pictures - 1 Record Index : 147 Visit Type :

URL : http://images.google.co.uk/images?client=firefo xa&rls=org.mozilla%3AenGB%3Aofficial_s&q =young+chicks&hl=en&btnG=Google+ Search First Visit Date : 03/02/2005 14:59:40 Last Visit Date : 03/02/2005 14:59:40 Visit Count : 0 Referrer : Host Name : images.google.co.uk Title : Google Search: young chicks Record Index : 144 Visit Type :

URL : http://images.google.co.uk/images?q=young+chi cks&hl=e n&lr=&client=firefox-a&rls=org.mozilla:enGB:official_s&start=20&s

a=N First Visit Date : 03/02/2005 15:01:53 Last Visit Date : 03/02/2005 15:01:53 Visit Count : 0 Referrer : Host Name : Title : Record Index : 153 Visit Type :

URL : http://images.google.co.uk/images?q=young+chi cks&hl=e n&lr=&client=firefox-a&rls=org.mozilla:enGB:official_s&start=40&s a=N First Visit Date : 03/02/2005 15:03:32 Last Visit Date : 03/02/2005 15:03:32 Visit Count : 0 Referrer : Host Name : Title : Record Index : 157 Visit Type :

URL : http://images.google.co.uk/imgres?imgurl=http:/ /freespace. virgin.net/cobber.budgies/images/babyscot_vyo ung.jpg&i mgrefurl=http://freespace.virgin.net/cobber.budg ies/stories /scottie_a.html&h=353&w=350&sz=38&tbnid= 4jg3dcJYAeI J:&tbnh=116&tbnw=115&prev=/images%3Fq% 3Dyoung% 2Bchicks%26hl%3Den%26lr%3D%26client%3 Dfirefoxa%26rls%3Dorg.mozilla:enGB:official_ s%26sa%3DG&frame=small First Visit Date : 03/02/2005 14:59:56 Last Visit Date : 03/02/2005 14:59:56 Visit Count : 0 Referrer : Host Name : Title : Record Index : 146 Visit Type :

6.4 Appendix D - aa010703a.htm

File Edit View History Bookmarks Tools Help

file:///mnt/Documents and Settings/johndoe/My Documents/aa010703a.htm

Google

...and Bird
Information
- Attracting Birds
- Photography
- Bird Problems
- Other Winged Creatures
- Conservation - Research
- Bird Related Activities
- Bird Computer Items
- Types of Birds
- Identifying Birds
- Where to See Birds
- Bird Books
- Find Other Birders
- Equipment & Supplies
- Extinct Birds

- **Buyer's Guide**
  Before You Buy
  Top Picks
  - Great Digital Cameras
  - Best Feeders
  - Bird Stories to Read
  Product Reviews

Articles

Forums

Help

About 2005 Cars   Free Newsletter Enter email address   Sign Up

circle at the top. Repeat at the bottom of the hole, overlapping the drilled holes.

3. Drill two small holes near the top of each side for ventilation.
4. Drill four small holes on the bottom for drainage.
5. Using finishing nails or wood screws, secure one of the sides to the bottom. Then secure the front and back to the same side.
6. Slip the 2nd side into place. Secure using two nails, one near the top on each side. These nails will be pivots so make sure they are across from each other.
7. Reach inside the box and push the bottom of the 2nd side outwards, making sure it can pivot outwards. If it is too tight, remove the nails and sand the edges so it is a bit smaller. Repeat until the 2nd side will pivot outwards. See diagram C for
8. Screw the eye screw near the bottom of the 2nd side. This screw is to make it easier for you to open the box occasionally to monitor it as well as to clean it out at the end of the season.
9. Drill a small hole through the front near the bottom into the 2nd side. Push a bent nail (I have a few by this point!) into the hole to keep the 2nd side closed. If you wish, use a small wood screw instead of the nail.
10. Nail or screw the roof to the nest box.
11. Mount the bluebird nest box to a pole, fence post, or tree. Be sure to use some type of predator guard to keep squirrels, snakes, racoons, and other creatures from harming the nestlings. See the Birdhouse Spec page for the correct mounting height.

May you always hear the whisper of wings...

Christine

From Christine Tarski,
Your Guide to Birding / Wild Birds.
FREE Newsletter. Sign Up Now!

Most Popular Articles
- 20 Fun Facts About Wild Turkeys
- 10 Ways Not to Feed the Birds
- This is How Birds, Ahem, Get It On
- Everything You Need to Know about Feeding Wild...
- What Do Wild Ducks Eat, Anyway?

Related Articles

Related Articles
- Birding and Birdwatching - Build a Winter Roosting Box ...
- How to Make a Coffee Can Feeder

○ Free Online
E-Courses
- Tips To Save Money
- Texas Hold 'Em for Beginners
- How To Find The Best Travel Deals
- Learn How To Eliminate All Debt
- Speak For Success
- More E-Courses

○ **Headlines**
- Hummingbird Highlights It's been a very birdy month, but undoubtedly my highlight was birding in Central America on a press...
- May Birder's Bookshelf Don't you just love adding new books to your birding library? In honor of Hummingbird Month, I've go...
- Bird of the Week: Green Violet-Ear When birds are named for their colors and field marks, it's always easier to identify them, and this...
- Air Force Goes Low Tech to Save High Tech Birds can be a problem at airports and while there are many ways to prevent bird strikes, high tech ...

XML   MY YAHOO!

○ **Headlines**
- The Bills and Beaks of Birds Beaks or bills come in a multitude of shapes and sizes, varying as to how the bird must gather its f...
- Specs for Building

[Content.IE5 — File Bro...   My Documents — File ...   Birding and Birdwatchin...

6.5 Appendix E - birdpics.gpg Contents

E:\birds\birdpics\WhiteFacedHeronFlying.jpg	177.0 KB	JPEG im
E:\birds\birdpics\WhiteFrontedParrot.jpg	184.5 KB	JPEG im
E:\birds\birdpics\WhiteThroatedSparrowInTree.jpg	241.2 KB	JPEG im
E:\birds\birdpics\WhoopingCranes.jpg	298.3 KB	JPEG im
E:\birds\birdpics\yellow-wag-cover-nb.jpg	60.2 KB	JPEG im

6.6 Appendix F -Downloaded Files

177.jpg

aggressive_song.wav

babyscot_2weeks1.jpg

babyscot_vyoung.jpg

birdtrans2.jpg

chicks2.jpg

newbies2.jpg

ostbk2b2.htm

6.7 Appendix G - Mozilla Firefox Download Log

<?xml version="1.0"?> <RDF:RDF xmlns:NC="http://home.netscape.com/NC-rdf#" xmlns:RDF="http://www.w3.org/1999/02/22-rdf-syntax-ns#"> <RDF:Description RDF:about="C:\Documents and Settings\johndoe\My Documents\birds.zip"

NC:Name="birds.zip"

NC:Transferred="1028kB of 1028kB">

<NC:URL

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Documents\My   Pictures\chicks2.jpg"/>   <RDF:li   RDF:resource="C:\Documents   and

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NC:Transferred="9kB of 9kB">

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RDF:resource="C:\DOCUME~1\JOHNDOE\LOCALS~1\TEMP\dawn.ram"/>
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70_enu_full.exe"/>   <NC:File RDF:resource="C:\Documents and
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Standard Time 2005 +579435</NC:DateEnded> <NC:DownloadState
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NC:parseType="Integer">100</NC:ProgressPercent> </RDF:Description> <RDF:Description
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6.8 Appendix H - birds.zip contents

1.png

2.png

3.png

4.png

5.png

6.png

7.png

8.png

9.png

6.12 Appendix I -Emails

```
X-Account-Key: account2

X-UIDL: qX3OACUOgTetW1E2tSGw

X-Mozilla-Status: 0001

X-Mozilla-Status2: 10000000

Message-Id: <ftPrWYA1H5hLVFeYa7N3@fakepop.invalid>

Date: Wed, 09 Feb 2005 11:08:01 +0000

X-UIDL: qX3OACUOgTetW1E2tSGw

X-fakepop-version: 7

X-fakepop-build: Dec  4 2004 17:08:02

X-fakepop-url: http://vztech.com.br/software/fakepop/

X-Message-Flag: message delivered by fakepop - http://vztech.com.br/software/fakepop/

Envelope-to: jdoe@example.com

Delivery-date: Wed, 17 Nov 2004 19:51:39 +0100

Received: from example.org ([192.168.231.26] helo=example.org)

    by mail.example.com with esmtp (Exim 4.34) id 1CIWEs-0005v3-7o

        for jdoe@example.com; Tue, 8 Feb 2005 14:13:26 +0100

        Received: (qmail 23682 invoked from network); 08 Feb 2005 14:13:24 -0000

From: Ben Forbes <ben@example.org>

To: jdoe@example.com

Subject: good pics

Date: Tue, 8 Feb 2005 14:13:26 +0000

User-Agent: KMail/1.7.2

MIME-Version: 1.0

Content-Type: Multipart/Mixed;

  boundary="Boundary-00=_GkMCCEL2vkLPD1G"

Status: O

X-UID: 11909

Content-Length: 155618

X-Keywords:

X-Length: 158992
```

Email 1

--Boundary-00=_GkMCCEL2vkLPD1G

Content-Type: text/plain;

charset="utf-8"

Content-Transfer-Encoding: 7bit

Content-Disposition: inline

Hi thought you'd like these

Enjoy

7EYBTELF1KAN.jpg.jpg

IMG_3937_filtered.jpg

cute_penguin.jpg

Email 2

From - Wed Feb 09 11:08:07 2005

X-Account-Key: account2

X-UIDL: vmyLTMZm6jBNjghPvFqQ

X-Mozilla-Status: 0001

X-Mozilla-Status2: 00000000

Message-Id: <WnifxIWJ4fCUPH80kr3g@fakepop.invalid>

Date: Wed, 09 Feb 2005 11:08:01 +0000

X-UIDL: vmyLTMZm6jBNjghPvFqQ

X-fakepop-version: 7

X-fakepop-build: Dec 4 2004 17:08:02

X-fakepop-url: http://vztech.com.br/software/fakepop/

X-Message-Flag: message delivered by fakepop - http://vztech.com.br/software/fakepop/

Envelope-to: jdoe@example.com

Delivery-date: Sat, 16 Oct 2004 18:51:39 +0100

Received: from outgoing.birds.com ([192.168.231.26] helo=outgoing2.birds.example.com)

        by mail.example.com with esmtp (Exim 4.34)

        id 1CIWEs-0005v3-7o

        for jdoe@example.com; Sat, 16 Oct 2004 18:51:39 +0100

Received: (qmail 23682 invoked from network); 16 Oct 2004 07:08:32 -0000

Date: Sat, 16 Oct 2004 15:20:15 +0200

From: Bird Fanciers <mailinglist@birds.example.com>

To: jdoe@example.com

Subject: How to Identify Birds

How to Identify Birds

Are you amazed at how quickly birders can identify birds? Actually, it's just like getting to know your human neighbors. When you move into a new neighborhood everyone is a stranger, but soon you learn to tell people apart as you unconsciously catalog their characteristics. Their habits, shape, styles of walking, and "habitats" become familiar enough that you can recognize each neighbor immediately, even at a distance.

Paying attention to individual differences can help you identify birds, too. You can recognize many birds simply by noting their shapes, even if seen only in silhouette. Other useful characteristics are a bird's posture, size (easiest to judge if you use familiar birds as a size reference), flight pattern and/or head-on flight profile, and the kind of habitat in which the bird was seen.

Start by learning to identify general groups of birds- warblers, flycatchers, hawks, owls, wrens- whose members all share certain similarities. As your observation skills improve, familiarize yourself with the field marks- colored or patterned areas on the bird's body, head, and wings- that help distinguish species.

Email 3

From - Wed Feb 09 11:08:08 2005

X-Account-Key: account2

X-UIDL: ZrAWXdiyn9fDpdDxkzAl

X-Mozilla-Status: 0001

X-Mozilla-Status2: 10000000

Message-Id: <OD1VOUt6OGifJL8TS8ls@fakepop.invalid>

Date: Wed, 09 Feb 2005 11:08:01 +0000

X-UIDL: ZrAWXdiyn9fDpdDxkzAl

X-fakepop-version: 7

X-fakepop-build: Dec 4 2004 17:08:02

X-fakepop-url: http://vztech.com.br/software/fakepop/

X-Message-Flag: message delivered by fakepop - http://vztech.com.br/software/fakepop/

Envelope-to: jdoe@example.com

Delivery-date: Tue, 8 Feb 2005 14:35:29 +0000

Received: from example.org ([192.168.231.26] helo=example.org)

      by mail.example.com with esmtp (Exim 4.34)

      id 1CIWEs-0005v3-7o

      for jdoe@example.com; Tue, 8 Feb 2005 14:35:27 +0000

Received: (qmail 23682 invoked from network); 8 Feb 2005 14:35:27 +0000

Date: Tue, 8 Feb 2005 14:35:27 +0000

From: Ben Forbes <ben@example.org>

To: jdoe@example.com

Subject: some more good ones

User-Agent: KMail/1.7.2

MIME-Version: 1.0

Content-Type: Multipart/Mixed;

boundary="Boundary-00=_v4MCC9SXbEkeHP9"

Status: O

X-UID: 11910

Content-Length: 534627

X-Keywords:

X-Length: 542945

--Boundary-00=_v4MCC9SXbEkeHP9

Content-Type: text/plain;

 charset="utf-8"

Content-Transfer-Encoding: 7bit

Content-Disposition: inline

Thanks for the pics you sent me here are some I really like

BC7 feeding the birds.jpg

colorful-birds.jpg

gawal8.jpg

glfs-storm-birds.jpg

<u>Email 4</u>

From - Wed Feb 09 11:08:08 2005

X-Account-Key: account2

X-UIDL: mI9vNXPVmE7PpsleLfhS

X-Mozilla-Status: 0001

X-Mozilla-Status2: 00000000

Message-Id: <FcJJpiktBLDJDt7QctR1@fakepop.invalid>

Date: Wed, 09 Feb 2005 11:08:01 +0000

X-UIDL: mI9vNXPVmE7PpsleLfhS

X-fakepop-version: 7

X-fakepop-build: Dec 4 2004 17:08:02

X-fakepop-url: http://vztech.com.br/software/fakepop/

X-Message-Flag: message delivered by fakepop - http://vztech.com.br/software/fakepop/

Envelope-to: jdoe@example.com

Delivery-date: Wed, 17 Nov 2004 19:51:39 +0100

Received: from example.org ([192.168.231.26] helo=example.org)

　　　　by mail.example.com with esmtp (Exim 4.34)

　　　　id 1CIWEs-0005v3-7o

　　　　for jdoe@example.com; Fri, 15 Oct 2004 18:51:39 +0100

Received: (qmail 23682 invoked from network); 15 Oct 2004 07:08:32 -0000

Date: Wed, 17 Nov 2004 19:20:15 +0200

From: Ben Forbes <ben@example.org>

To: jdoe@example.com

Subject: expensive birds

A young woman was walking past a pet shop and saw an exotic, white cockatoo for sale. The price was $6000. She entered the store and asked the clerk why the bird was so expensive.   The clerk told her that the bird spoke 6 different languages. "Does it speak English?" asked the woman. "Of course it does!" said the clerk.

The woman thought about her mother who was multi-lingual, a bit of a recluse and lived all alone.

She decided to purchase the bird and send it to her mother as a companion. She paid for the bird and made arrangements for it to be delivered. The following day, the woman telephoned her mother. "Mama, did you like the cockatoo that I sent you?" "Oh it was delicious!" she replied." "Mama, what do you mean delicious?" "I made soup out of it."

"But mama, that bird spoke six different languages!"

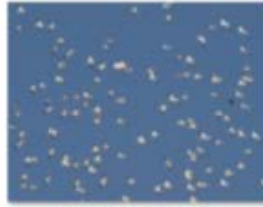"Oh dear! Why didn't it say something?"

6.13 Appendix J -Unallocated Space

AlmondMarshGreatBlueHeronStalking.jpg

AmericanAvocetWinterPlumage.jpg

AmericanWhitePelicansCircling.jpg

BaldEagle7oClock.jpg

BarnOwl.jpg

BellbirdJumpingOffBranch.jpg

BlackNeckedStiltFromBehind.jpg

BlackSwan.jpg

BlackVultureSunningOnPost.jpg

bird_Ornithologist_TWG.jpg

DF1.jpg

GreatBlueHeronWithFish.jpg

GreatEgretOnIsleBog.jpg

GreatEgretOverflyingRoseateSpoonbills.jpg

GreenHeronCloseup.jpg

GreenHeronOnChicagoLakeshore.jpg

guide.doc

ImmatureSnowyEgretTakingOff.jpg

june03screen.jpg

junescreen01.jpg

KeaAndMountain.jpg

KeaAtTopOfMacKinnonPass0930.jpg

KeaEatingRentalCar.jpg

KeaRetrievingBakedBeanCanFromTarn.jpg

6.16 Appendix K - Custody Form

Investigation in Confidence
EXHIBIT MOVEMENT LIST

Case No:

Exhibit	Description	Seal Number In	Seal Number Out	Date	Time	Initials
Ref. ITEM 1	MONITOR	1		18/9/14	16.10	(signature)
Book No.						
Ref. ITEM 2	KEYBOARD	2		18/9/14	16.10	(signature)
Book No.						
Ref. ITEM 3	MOUSE	2		18/9/14	16.10	(signature)
Book No.						
Ref. ITEM 4		2		18/9/14	16.10	(signature)

Investigation in Confidence
EXHIBIT MOVEMENT LIST

Case No:

Exhibit	Description	Seal Number In	Seal Number Out	Date	Time	Initials
Ref. ITEM 5	PC UNIT	3		18/9/14	16.10	(signature)
			3	18/9/14	16.15	(signature)
Book No.		3		18/9/14	16.25	(signature)
Ref.						
Book No.						
Ref.						
Book No.						
Ref.						
Book No.						

Investigation in Confidence
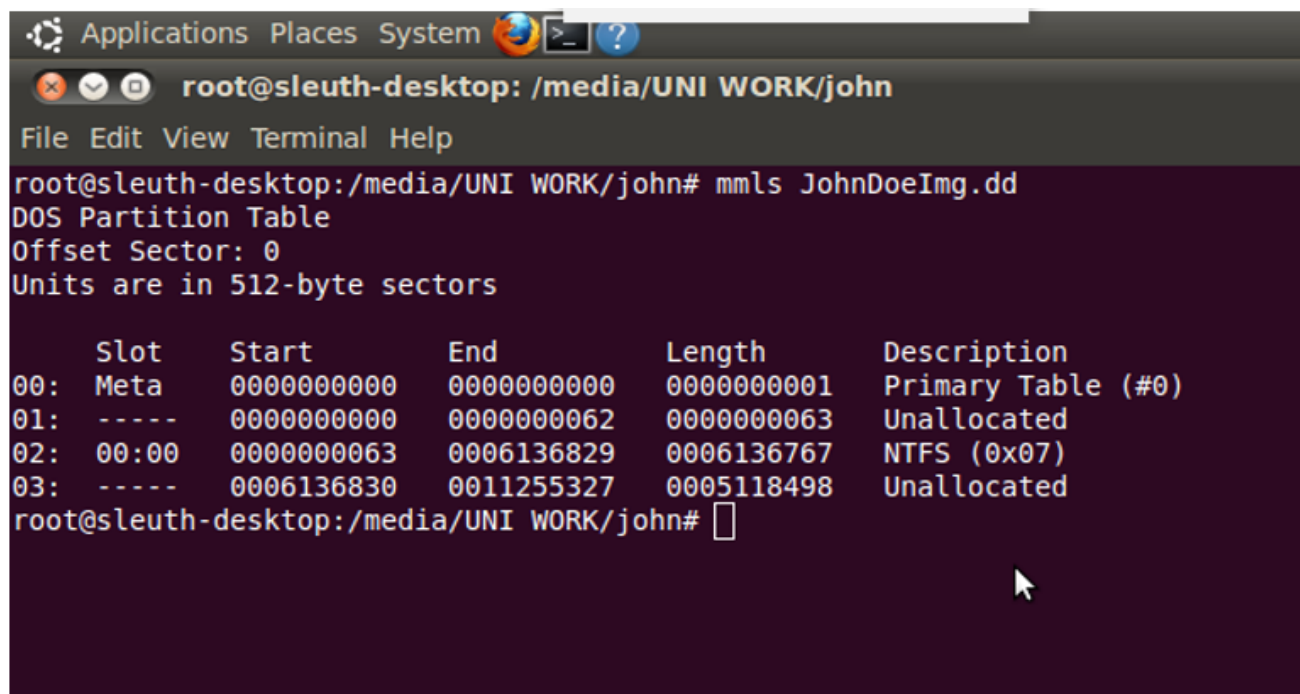
6.9 Appendix L - Clock Skew

6.10 Appendix M - User Accounts

| User ID	Username	Date Created	Count	Account Type	Description	Password Settings
S-1-5-21-725345543-854245398-1202660629-501	Guest	2005-01-24 16:10:13 GMT	0	Default Guest Acct	Built-in account for guest access to the computer/domain	Password does not expire; Password not re
S-1-5-21-725345543-854245398-1202660629-500	Administrator	2005-01-24 16:10:13 GMT	0	Default Admin User	Built-in account for administering the computer/domain	Password does not expire
S-1-5-21-725345543-854245398-1202660629-1000	HelpAssistant	2005-01-24 15:37:21 GMT	0	Custom Limited Acct	Account for Providing Remote Assistance	Password does not expire
S-1-5-21-725345543-854245398-1202660629-1005	bob	2005-02-02 15:08:39 GMT	1	Custom Limited Acct		Password does not expire
S-1-5-21-725345543-854245398-1202660629-1004	jane	2005-02-02 12:36:29 GMT	1	Custom Limited Acct		Password does not expire
S-1-5-21-725345543-854245398-1202660629-1003	johndoe	2005-01-24 15:56:49 GMT	21	Default Admin User		Password does not expire

6.11 Appendix N - Partition Information


```
root@sleuth-desktop:/media/UNI WORK/john# mmls JohnDoeImg.dd
DOS Partition Table
Offset Sector: 0
Units are in 512-byte sectors

     Slot      Start         End           Length        Description
00:  Meta      0000000000    0000000000    0000000001    Primary Table (#0)
01:  -----     0000000000    0000000062    0000000063    Unallocated
02:  00:00     0000000063    0006136829    0006136767    NTFS (0x07)
03:  -----     0006136830    0011255327    0005118498    Unallocated
root@sleuth-desktop:/media/UNI WORK/john#
```

Appendix O - Malware Scan Results
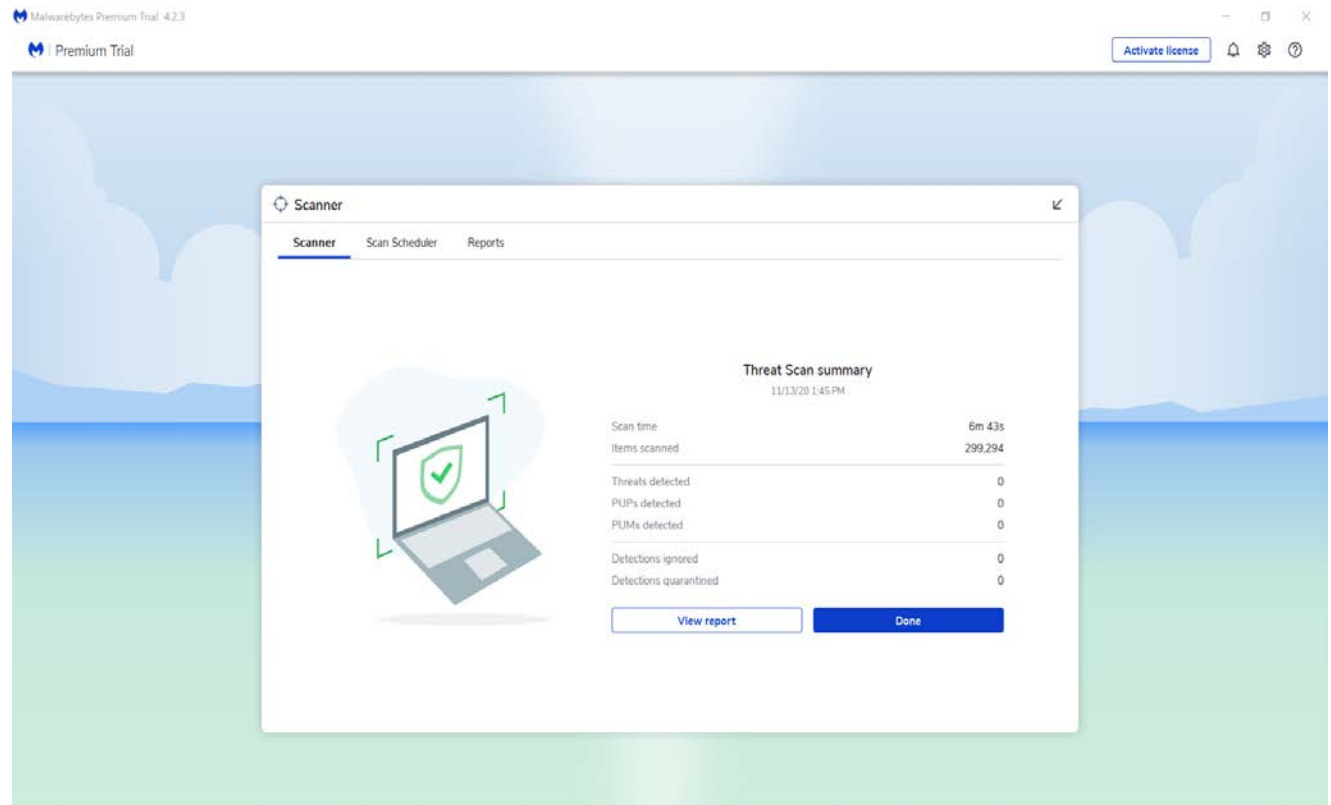
Appendix P "Birds to find"

Dear Sir

Further to our conversation everything we have discussed has been done

Yours faithfully

John Doe

----------------------------METADATA----------------------------

Application-Name: Microsoft Office Word

Author: John Doe

Character Count: 96

Comments:

Company:

Content-Type: application/msword

Creation-Date: 2005-02-09T16:51:00Z

Edit-Time: 3600000000

Keywords:

Last-Author: John Doe

Last-Modified: 2005-02-09T16:57:00Z

Last-Save-Date: 2005-02-09T16:57:00Z

Page-Count: 1

Revision-Number: 2

Template: Normal.dot

Appendix Q - guide.doc

An Insider's Guide to Enjoying Your First Birding Field Trip

by Pete Dunne

Field trips are a lot like going to a dance, and there are two schools of thought. You can just waltz onto the dance floor and let the other person lead or you can learn a few basic dance steps beforehand. Here, for those who want to get a jump on etiquette, are some of the basic rules of the birding field trip. Learn them, and you'll spend more time birding and less time tripping over your feet.

• Rule 1 - Never miss an opportunity to use a restroom.

Your capacity for birding may be limitless but your bladder is not. Some leaders are generous with their planned rest stops; some are miserly. Whenever the group arrives at a planned rest stop, take full advantage {and mind your coffee consumption between stops).

• Rule 2 - Familiarize yourself with whatever pre-trip information is sent.

Most organized field trips come with instructions. In the pre-trip material, you will almost certainly find the answers to your most pressing questions: dress, equipment needs, time commitment, lunch plans. Being prepared is the first step toward having a great time.

Re: Clothing. Rule of thumb: In winter, if in doubt, just bring it. In hot weather, cover up for sun protection-this means hat, long-sleeved cotton shirt, long pants. At any time of year, avoid bright colors, particularly white. In the universal language of wild creatures, white means "Danger! Watch Out! Hide ! It's not the message you want to send.

• Rule 3 - Don't be late.

When you join a group, you sacrifice a measure of self-determination. One of the quickest ways to annoy the group leader and everyone else, is to arrive late and delay the group's departure.

• Rule 4 - Don't wander off.

The second quickest way to annoy the group leader is to wander off. You don't want to be left behind and you don't want to be the focus of an unnecessary search. If you plan to leave the group,

Sixty miles per hour; six lengths. Don't trust yourself to keep the pace? Don't drive. Car-pool with someone else.

• Rule 5 - Come prepared.

If the trip involves driving, make sure you have enough fuel to see you through. If the instructions state "bring lunch," don't assume that you'll be able to stop at a convenience store to pick up a sandwich. Do that, and you'll likely be eating alone.

• Rule 6 - Check out your equipment before the trip.

The single greatest frustration first-time trip goers face in not inexperience, but rather the lousy or malfunctioning equipment - usually optics.

If your binoculars aren't working, ask whether a loaner is available. It you don't own binoculars, do not rush out to the nearest discount store and buy some for the trip. People who do this usually end up with instruments they soon replace. Borrow binoculars for the trip. Use your field trip experience to see what instruments experienced birders are using in order to make an educated purchase later.

• Rule 7 - Speak Softly.
Human voices put wildlife on alert. Talking may also prevent a leader from hearing songs or calls and keep you from hearing instructions. Field trips are social and conversation is part of the field trip experience. If you want to converse, do so in whispers or stand away from the group.

• Rule 8 - Keep motion to a minimum.

More than sound, birds react to motion. In close proximity to birds, don't move quickly and above all do not advance until the leader gives the word. Want to draw the ire of a group? Walk toward "the bird of the day" and scare it away.

• Rule 9 - Don't monopolize the leader.

Sure you have questions. Sure you want to get to know the leader, and you want them to come to recognize your wonderful qualities, too. One of those qualities should be deference, because everyone in the group shares your ambition. Deference extends to use of the spotting scopes, too.

6.14 Appendix R - birdwatching.doc

IDENTIFYING BIRDS

Birds are distinguished first by their size and shape. They range from diminutive flowerpeckers, sunbirds and white-eyes, about the size of your index finger, to lanky storks and egrets that stand almost a metre tall, and Green peafowl with its spectacular 2m tail. The form of the beak offers vital clues about the bird's diet. For example a thin curved tube for sipping nectar or a sharp hook for tearing flesh. The pattern and colour of plumage can tell apart the sexes as in pheasants where males are bright and striking, and females are drab and dowdy. By far the most useful character for identification is a bird's voice. This is especially true in forests where on average 90% of birds are hidden from view. The most experienced birdwatchers in the tropics know their songs and calls.

BIRDWATCHING IN THAILAND
Feathered Magic from Mangroves to Mountaintops by Antony Lynam

One of the great attractions for nature tourists visiting Thailand is the diversity of environments extending across mountain peaks, lowland rainforests, mangroves, coral reefs, farmland and urban jungles. Within a day, or even a few hours travel, one can easily make the transition between these places and witness natural marvels large and small.

For wildlife enthusiasts no group maintains interest and pleasure more than birds. While special efforts are required to see in the wild charismatic species such as elephants and primates, birds are found across the entire spectrum of environments from pristine to severely degraded areas.

Part of the attraction for birds lies in their diversity. Nine hundred and seventy eight bird species have been recorded in Thailand, approximately 10% of the world's total. At the Isthmus of Kra between latitudes 11° and 13°N, a major biogeographic transition between Indochinese and Sundaic forests produces a special diversity of birds with a total of 152 species of birds reaching the northern or southern range limits of their geographic ranges.

Two-thirds of Thai birds are residents, the remainder are seasonal visitors. Locations where migrants congregate, often in large numbers, are highly accessible making Thailand a special destination for birdwatchers.

Many birds are susceptible to human disturbance because they have small geographic ranges, a result of specific habitat requirements. For example, Deignan's babbler - a non-descript forest bird is found on Doi Chiang Dao and nowhere else in the world. Gurney's pitta are only found in lowland rainforests. Fewer than 30 birds remain in the last known population in Thailand at Khao Nor Chuchi, Krabi. Efforts by local and international conservation agencies strive to increase protection efforts and reafforest areas encroached by rubber farmers, though time is running out. With approximately 20% of the birds found in Thailand being globally or regionally endangered species, this makes the country a birdwatching haven for bird enthusiasts.

BEST TIMES TO SEE BIRDS

The nesting season is a good time to be watching birds. During this most active time in a bird's life a variety of vocalizations and behaviours are exhibited. In Thailand, as in other tropical countries, the nesting season coincides with the period when food is in abundant supply. A bird expends much energy in courting, mating, incubating eggs, defending a nest and feeding offspring. Most birds nest during the transition between dry and wet seasons when new leaves and grass shoots sprout. This occurs from February to June. Certain birds depend on the availability of water and nest throughout the rainy season.

Migrants are best observed during their passage into or out of the country, or as they pass through on their way to other places. Most conspicuously, half a million ducks spend their winter in Thailand, feeding and resting in watery roosts from Chiang Saen to Thale Noi. Thousands of garganey and Lesser treeduck flock during January and February.

Shorebirds like sandpipers, stints and plovers migrate long-distances between nesting grounds in Eurasia and tropical Asia and wintering grounds in Australasia. They stop to feed in Thailand's mudflats and mangroves during September to May where they stock up on invertebrates and crustaceans. During October, the southward migration of hawks over peninsular Thailand is an avian spectacle. Chinese goshawks, Japanese sparrowhawks, crested honey buzzards, black bazas, and others are seen coasting on thermals in their thousands daily. Less conspicuous is the blue-winged pitta, a ground dwelling bird that arrives with the rains to nest in deciduous and bamboo forests, and escapes the hot season for the wetter forests of Malaysia and Sumatra.

WHERE TO FIND BIRDS

Given that many birds are denizens of certain times, places, habitats or seasons, the amateur naturalist can remember them by association.

PARKS, TEMPLES AND GARDENS

Some species like barn swallows, magpie robins, mynas and starlings can be found around Bangkok and environs. *Lumphini Park,* a heavily-used green area in the city centre supports a variety of birds with over 90 species having been recorded there. Temples near Bangkok and Ayutthaya preserve pockets of the natural landscape including birds such as black kites, parakeets and woodland birds that are characteristic of the habitats.

RICE PADDIES, MARSHES AND PONDS

Rice paddies, marshes and ponds away from built-up areas support breeding populations of Asian openbill stork and many other waterbirds.
Key sites: *Suphan Buri-Ayutthaya* and *Beung Boraphet.*

PEAT SWAMP FORESTS

Almost the last vestige of Thailand's peat swamp forest at *Phru To Daeng or Chalerm Phrakiat Wildlife Sanctuary* in Narathiwat supports Lesser adjutants, a kind of stork, along with several birds characteristic of Sundaic forests.

SANDY BEACHES, MANGROVE AND TIDAL FLATS

Sandy beaches are attractive to tourists but are barren habitats for birds, while little-visited mangroves and tidal flats that are rich in nutrients and microorganisms, are favoured feeding haunts for migrant waders. Some birds like the Brown-winged kingfisher and Mangrove pitta, are entirely restricted to mangroves while Mangrove whistlers and flyeaters rarely leave the area.

Key sites: *Samut Sakhon, Ban Laem in Petchburi,* and *Krabi.*

OFFSHORE ISLANDS

Offshore islands such as *Phi Phi, Libong, Surin* and the *Similans* support fewer species than similar sized mainland habitats but some such as Nicobar and Pied Imperial pigeon are entirely restricted to these refuges.

SEASCAPES

While there are fewer seabirds in the warm Thai waters compared with those in the northern and southern hemispheres, frigate birds, skuas, boobies, and terns are among the rewards for marine birders.

FORESTS

Most resident Thai birds depend upon forests for their survival. Rainforests in the extreme south support the greatest avian diversity, while seasonally dry dipterocarp, mixed deciduous and evergreen forests in the centre and north.

Key sites: *Khao Yai National Park, Kaeng Krachan National Park, Khao Soi Dao, Nam Nao National Park, Khao Nor Chuchi, Ban Nai Chong,* and *Hala Bala Wildlife Sanctuary.*

MOUNTAINS

Sibias, minlas, and laughing thrushes are relatives of species found in the Himalayas and southern China, and can only be found in mountain forests. Following surveys of high mountain peaks in the last decade, at least 20 new species or 2% of the total have been added to the lists for Thailand.

Key sites: *Doi Pha Hom Pok, Doi Chiang Dao, Doi Inthanon, Doi Ang Khang,* and *Doi Suthep.*

By visiting these enchanting destinations, travellers can appreciate the avian wonders that Thailand offers and better understand the importance of the wild and not so wild areas that preserve them.

Contact information:
Bird Conservation Society of Thailand (BCST)*
69/12 Soi Ramindra 24, Joorakaebau, Ladprao, Bangkok 10230, Thailand
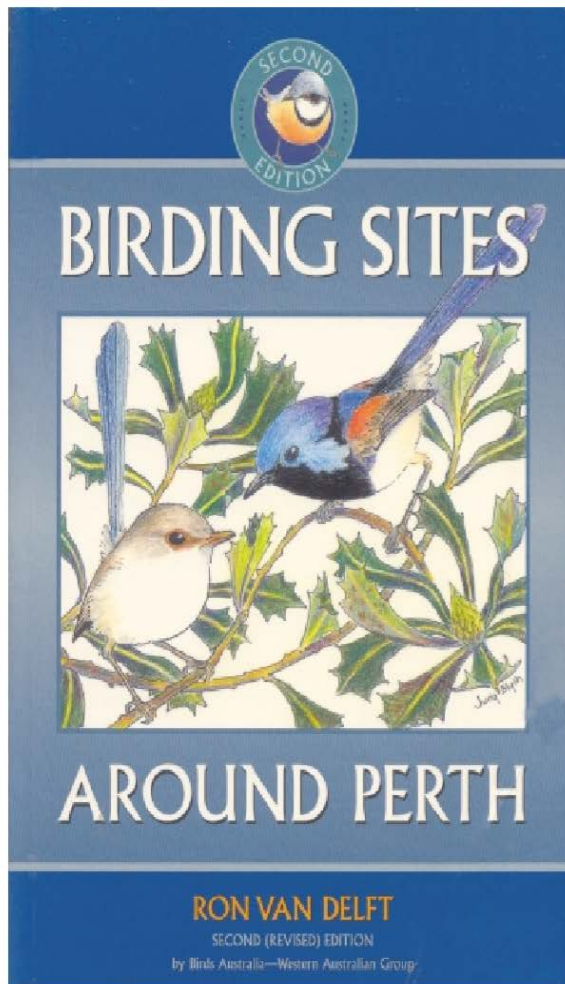Email: bcst@box1.a-net.net.th
Tel: 66-(0)-2943-5965
Web sites:
www.bcst.org/index_ebird.html
www.thai.net/bcst
* The Bird Conservation Society of Thailand (BCST) is a BirdLife Partner

Appendix S – "recovered deleted pdf files"

Number 57ab in a series of Bird Guides of Western Australia

Birding Sites Around Perth is a comprehensive guide to Perth's best bird watching sites, including Kings Park, John Forrest National Park and Rottnest Island.

This revised and enlarged edition describes forty-six sites within a 60 kilometre radius of the city, with excellent location maps, lists of birds regularly seen, and notes on species of special interest. Also provided are suggested bird watching tours for local enthusiasts and visitors, and a wealth of information on endemic species. Over 200 birds are featured in 165 pages.

Illustrated throughout with colour photographs and pencil drawings, *Birding Sites Around Perth* is an excellent introduction to bird watching and to Perth's wildlife heritage.

Copies of the book are available for purchase from the Birds Australia office during office hours or available by post.

WHAT IS BIRDS AUSTRALIA?
Birds Australia is a non-profit national organisation working for the enjoyment, study and conservation of Australia's birds. The WA group of Birds Australia has members statewide and offers a variety of activities for members, including conservation and research projects.

Activities and services include excursions, camp-outs, bird surveys and social activities. We also have a library, books for sale and information about birds.

To view our full range of bird guides and bird lists, visit our web site.

INTERESTED?
Contact us at:
Birds Australia Western Australia Inc.
71 Oceanic Drive
Floreat WA 6014   Weekdays 9.30 - 12.30 pm

Phone: (08) 9383 7749
Fax: (08) 9387 8412
Email: birdswa@iinet.net.au
Web: birdswa.iinet.net.au

BIRDING SITES AROUND PERTH

RON VAN DELFT
SECOND (REVISED) EDITION
by Birds Australia—Western Australian Group

Birds at the UCBG

"It's a hummingbird! But is it Anna's, Allen's or Rufous?"

Academic interest in the Garden's bird life over the last few years has primarily been associated with undergraduates studying the territorial behavior of hummingbirds. Any regular Garden visitor can tell you however, that you've never really experienced the Garden until you have taken the time to sit and just watch the birds, listen to their songs and enjoy the way in which they use the Garden! Encouraged by the vast plant variety and habitat diversity, there are around seventy-six bird species regularly sighted here over the course of an average year. The hope of spotting one of the more rarely sighted birds, such as the Western Kingbird or the White-throated Swift, keeps our endless parade of avid birdwatchers in thrall.

Our residents birds, however, whether it's an audacious jay, a noisy woodpecker or a colorful finch, provide plenty of ongoing interest for the Garden community.

The diverse collections of the Garden support an equally diverse population of birds, as is apparent in the list from the recent Christmas Bird Count. In addition to providing general shelter for both resident and migrant species, our collection provides food and nesting sites for many different taxa. The Garden environment offers a range of habitats that are rather different from the native chaparral of the canyon. Some visitors to the Japanese Pool, such as belted kingfishers and green and blue herons, might not otherwise stop in Strawberry Canyon. Native chaparral species are found in parts of the Garden that more closely approximate their preferred habitat. Wren tits, California thrashers, and

Aloes in the Southern African Area attract hummingbirds and demonstrate how birds at the Garden enjoy the diversity of plants in this collection.

spotted towhees are most commonly found in the scrubby areas of the South American and Australasian sections. Similarly, native riparian species are found in the trees along Strawberry Creek, such as Wilson's and orange crowned warblers.

Many birds have identified new food sources among the many non-native plants in our collections. This is particularly obvious when watching hummingbirds feed on both native salvias and penstemons, and also on bird-pollinated plants from other parts of the world. Aloes in the Southern African Area are pollinated by sun birds in their native habitat. These small colorful nectivores perch on the rigid blossom stalks of the aloes. This is a distinct contrast to the hovering feeding habit of the hummingbirds, which as a group are restricted to North and South America. Nonetheless, as a walk through this area at this time of the year demonstrates, hummingbirds utilize aloes extensively and assertively defend their feeding resources against other intruding hummers.

—*Chris Carmichael*

The Porter County
Birding Guide

6.15 Appendix T -Collected Images

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AlmondMarshGreatBlueHeronStalling.jpg

AmericanAvocetWinterPlumage.jpg

AmericanWhitePelicansCirding.jpg

BaldEagle7oClock.jpg

BarnOwl.jpg

t3GTOUAF7m7tJNKqhjOrI0ozObDhEPZ9zmPT63DvPCE
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gfh-stom-deck.jpg

navkeexl.jpg

Everyone says you're too young for me.

177.jpg

babyscot_vyoung.jpg