

CAHA 1629

March 20-21, 2008 Flip Charts from 2nd Internal Alternative Development Meeting

- Purpose- to avoid “take” (ESA and MBTA) and allow recreation
 - When condition for closures are met and high ORV demand areas an escort system and there is no alternate access
 - Conditions
 - Qualified monitors must be able to see the birds (and people_
 - Corridor is not compromised
 - High tide
 - 7am-7pm (down time? Shifts?)
 - Lease escort according to predetermined behavior
 - Pp chick (hatch to fledge) in vicinity in corridor
 - PP in incubating adult flushed from nest
 - Training:
 - Escort, Monitors hired March 1, trained by March 15
 - Gate keeper- hired and trained by 3/15
 - Cease escort (cont.)- adult foraging (pp)- 20 m from center of ORV corridor
 - Amoy chick present
 - AMOY adult foraging 50m (?) from center of corridor
-

Logistics (summer hire?) consistent staff for entire season because of training and contact with public

- 1 LE 5/shift 2 shifts
- 2 Mon
- 1 Escort
- 1 Gate Keeper

1 night LE 12 hour shift at night

? 1 coordinator (may be one of the above)

Data collection

- # of vehicles and # of passengers
- Time of day
- Where they are coming from
- Wait time and/or how long they wait before leaving
- Human behavior (disruptive to birds)
- Monitoring bird behavior
- Pedestrian

Operational

- Rake tracks at end of day
-

Pets:

1. Prohibit from park or designated areas
2. M [sic]
3. [sic]

-
- Lack of an approved plan over time has...

ORV email-list serve

- Automatic response
- Press releases related to ORV

Interest Stakeholders

- Receive same info

PEPC

Government access table

CAHA Website

Conference Call Meetings

- Conference staffers
- Powerpoint by email

Environmental Group Conference Call Meetigs

Dare Co Conference call meetings

Calls occure on as needed basis

Congress- notifications before public scoping

PSA's

Goals

- Educate public to NEPA process and their opportunities for input
- Ensure we hear from silent majority
- Have well attended public meetings that elicit the full-spectrum of viewpoints
- Stamp out mis-info
- Ensure public know where to access info

-
- Review Cong. Record re NRA
 - P/N/Objectives
 - "Issues" – ESF
 - Alts: "No action" and Range

The purpose of taking action at this time is to evaluate a range of strategies for protecting sensitive species, until a long-term ORV management plan is developed, while providing for appropriate recreational use as directed in the parks enabling legislation, NPS Management Policies, and other laws and mandates.

Need: An interim protected species Management plan is needed, until the long-term ORV management plan is developed, because:

- Lack of an approved plan over time has led to inconsistent management of protected species, which has caused confusion both for park staff and the public. The park needs a clear and consistent set of management strategies.

- The park needs a management plan on which to consult with the USFWS, under Section 7 of the ESA and which complies with the MBTA, NPS Management Policies, park enabling legislation and avoids adverse effects to protected species.
- ~~There is a need for additional data collection on the effects of different management activities on protected species for use in crafting the long term ORV Mangt. Plan.~~
- There is a need to immediately address public concerns about species management and rec. use.

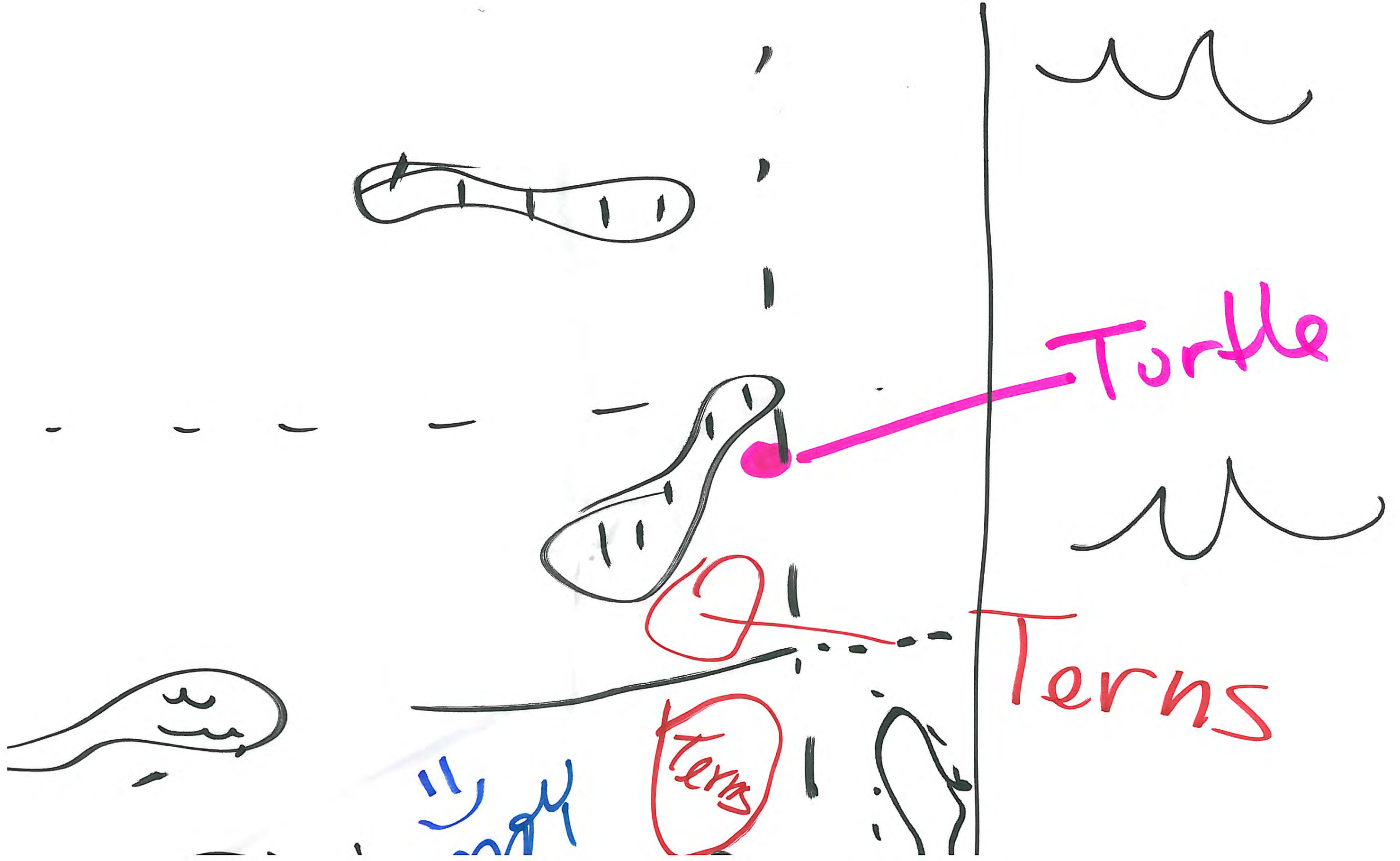
Recreation and park activities to manage recreation

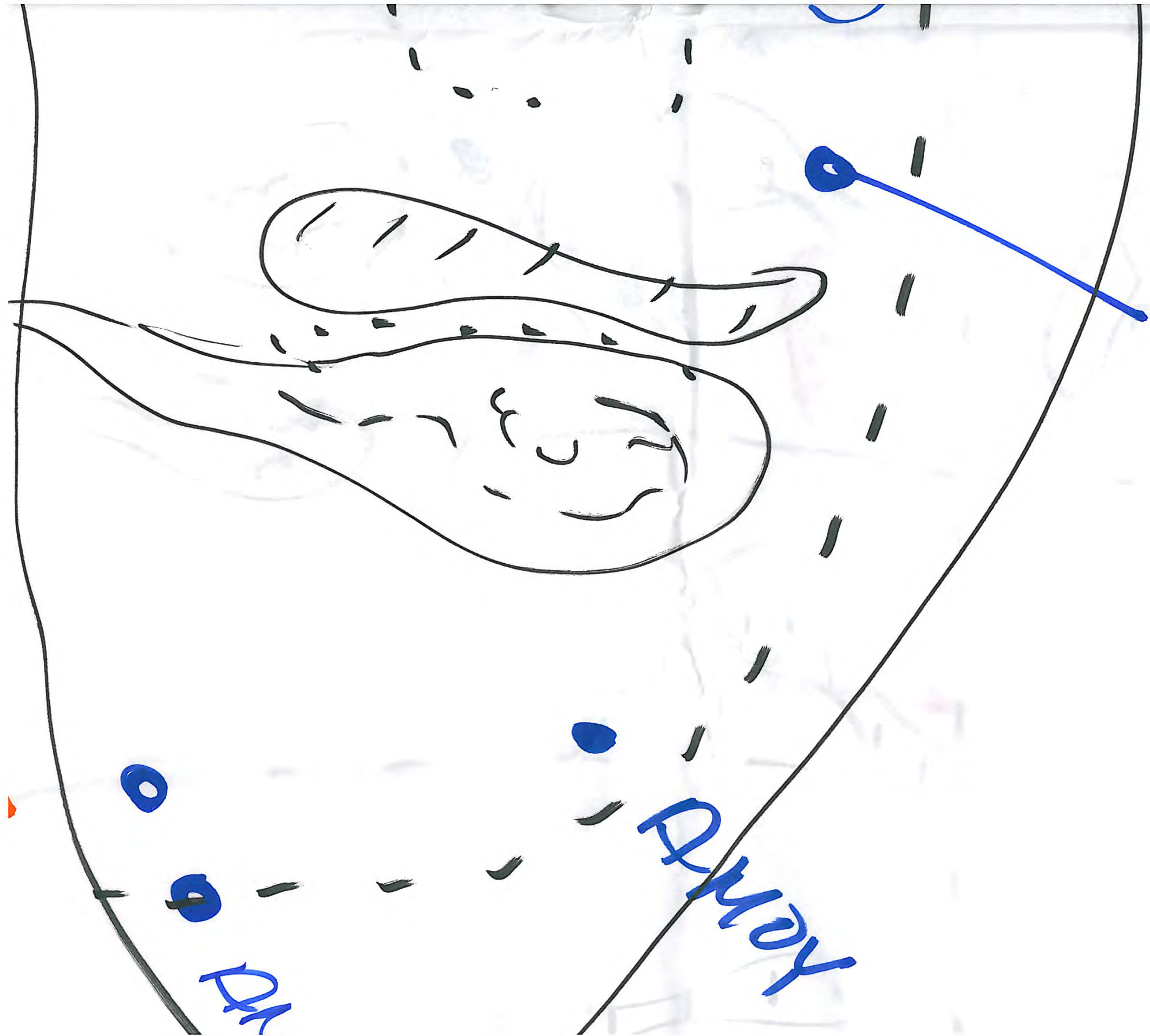
- Plover alternative
- All plovers observed or monitored in the field no later than April 1
- Staff hired by March 1, trained by 3/15.
- ID nesting areas from previous year (w/ GPS/GIS)
- Familiarize staff with priority areas
- ...and symbolically fence by March 20
 - 3 types to fence
 - Historical nesting habitat
 - Current nesting habitat
 - New potential nesting habitat
 - From April 1 – June 30 monitoring for
 - All plover habitat
 - Heavy current nesting (every other day and early morning)
 - 2/wk potential
 - Behavior (and record it dist. And abundance) E.G. Charging
 - Create action thresholds (what to do if see a certain number of plovers)
 - Examples of thresholds
 - Presence on 2 consecutive dates
 - Scrapes
 - Charging
 - Copulation
 - Nesting
 - Actions to take if thresholds exceeded
 - Post/fence
 - Monitor (how many times?)
 - When scrapes of nests with eggs, establish 150ft. radius buffer
 - Put up predator enclosure
 - Where the foraging sites are outside of the 150' buffer, expand the buffer to include the foraging area. (unless adults and young have permanently left the nest).
 - Actions to take if thresholds not exceeded
 - Remove symbolic fencing by July 15th
 - (After monitoring) Brood phase (26 days after 4th or last egg is laid)
 - If know when last egg is laid, expand closure at day 26

- If don't know date of last egg, monitor 2 x/day and close at day 24 (see recovery plan)
- If nests can be monitored from at least 150' 2x/day (i.e. intensive monitoring), then ORV use may be allowed until hatching begins.
- Hatching
- Based on monitoring of adult foraging during incubation, appropriate closure b/t nests and adult foraging sites will be closed to recreational use (see also USGS protocol A- Alt A)
- (Generally) once hatching has occurred, intensive monitoring – dawn and dusk
- Entire area chicks are moving in, including nesting and foraging areas, must be protected/closed, and if no case may it be less than 100 meters on each side of the brood
 - If monitoring shows that area of plover activity expands/shrinks, closures/protected areas will be adjusted accordingly.
 - Connect nesting and foraging areas with a closure when...
 - Brooding and Hatching – Discussion of when to close based on when egg is laid
 - 1 idea- consistency- always day 26 (assume know egg date)
 - 2nd idea- if don't know when last egg is laid, when close? This would fall into intensive monitoring and when hatched, then buffers initiated. (But if after May 15, close immediately).
 - If impossible to monitor- i.e. have to approach within 150', then close area by earliest possible date- May 15, or immediately if after May 15.
 - As soon as hatching has occurred, rake ORV tracks b/t nesting and foraging. For nests impossible to monitor, rake on May 15 and every day after.
 - Fledging
 - Monitor to determine when fledging (defined as 35 days of age, or observed flying for 15 meters...whichever comes first)
 - Signage (although buggers are down, still an active area)...so what to leave up?
 - Once last chick has fledged, what level of protection (In recognition that recently fledged chicks are continuing to

use their foraging sites maintain
closures for 5-10 days after
fledged

- Leave up closure for migrating plovers?
- Winter management/migrating birds
 - Foraging and resting areas set aside with closures by 1st week of July (July 4th is traditional beginning of migration season)
 - Close flats and soundside areas
 - Maintain, but shrink plover areas
 - Open again by Nov. 1? Or permanent closure of foraging areas (depends to some degree on numbers of birds hosted b/t Nov. 1 – April 1. Need #'s.
- Question- what to do with foraging areas?
 - Closure from April 1- Nov 1 for breeding migration
 - Complete closure in recognition of breeding wintering, and migration.
- Definition of foraging areas (3)
 - Current
 - Historic
 - Potential
- Night driving
 - Same as current management
- General Actions
 - One central map (GIS) for fencing/posting
 - Public outreach on posed/fencing sites and closures
 - Recognition of resting and foraging areas





~~Dr~~ Yamtu Dnyoy

Seasonal
Resources - closure could be sooner than May /
consistent mgmt at villages and spits
need L.E. access at all areas
? benefit of having resource closure season differed
from high use season?
Kiteboarding vs ped.

Season: 1978 May 15 - Sept 15

now-future May 1 - Sept 30th

- Population, development, use, ORV
or year round closure

Simplicity ~~is~~ enforcement + use

wintering PIP - S. octode + Bodie

- soundside year round closure

define safety closure

- implications on res. closure

CAMA 3/20/08
MTC.

⊕ new parking + walk access + expand existing

- VFRA

- VFRA w/ped. corr.

- closed to all

- seasonal 5/1 - 9/30 vs. year round

new ramps

0020641

Caveats subject to safety
closures

- Seasonal assessment

Make more VFR it year round

- near parking lots

USE AREAS

- provide various beach experiences
- Safety + resource closures
- consistency + simplicity
- define + delineate parking areas
- re-evaluate / re-open older safety closures
- season = May 1 - Sept 30
 - population, development, use, ↑ # ORV

ROUTES - CORRIDORS

Protection of upper beach

- corridor = 30-ft. from dune (toe) to water

No additional interdunal roads

PARKING

- Overall expansion - need visitor pattern / traffic study
- Ensure parking near VFRA

INFRASTRUCTURE

- Maintenance of all ramps
- Maintain (not improve) soundside roads

ALT. C - Scheduled ORV Access

PERMIT SYSTEM

- unlimited + good for entire seashore
- online + at park
- window sticker
- resource + safety test
- contractor administered
- one week + annual
- fee comparable to Assateague + CACO

CARRYING CAPACITY

- eliminate vehicle stacking
- visual enforcement, gating ramps, staffing ramps
- year-round, winter visual as needed
- review/revise every 5 years
- ~~#~~ restrict site-specific
 - no particular # per island

ACCESSIBILITY

- Continue current S.O.P. to drive in front of villages
- Extend to VFRA
 - no additional access

ALT TRANSPD

Consider along NC-12

NIGHT DRIVING

Beach closed at night (to ORV)

- June 1 - Aug 31

CLOSURES

Same in front of villages, unless safety

Campgrounds • beaches - differ → see map

Other Activities:

~~ITE~~ + Kiteboarding:

Ban ~~ITE~~ Seasonally based on
Resource Needs (March 15 -
Aug 31)

Kites:
(hand held)

1 Line - not w/in ^{a determined} ~~buffer~~ ~~buffer~~
Bird Closure
2+ Lines - (PITL Recu plan)

See ^{||} Kiteboarding
Inc. trainer Kites.

Map
3/1/12

0020647

36 CFR 1.5 Emergency.

Safety: Use common sense - no
Specific closure / Restrictions.

Min mgmt
2/2/08

Administrative: Areas open
Closures

Safety Closures: None - use
Common Sense

Species ^{management} ~~Closures~~ ^{Restrictions}: Both Ped + car
+ associated Buffers. Apply in UFR +
Routes + Areas.

36 CFR 1.5 Emergency
Closures

Jimmy Stiles

Permits Revoked if any state +
 federal law violated related to
 Vehicle
 Some officer discretion / Reasonableness
 Example
 Speeding
 DWI
 Reckless vehicle operation

Others?

Dog off leash
 Violation of Resource closure.

~~25 mph~~ Speed Limit -
 Consistent

Keep 25 mph
 Emergency Vehicles
 Exempt

Mining 3/21/08

Parking lot :

Add pkg to camp grounds -
allow more ped access in ~~the~~
Summer, whole thing is pkg lot in
winter. Question as to provision of
facilities (Restrooms)?

VFR - Patrol Access?

night driving?

Issues -

VFR'S

~~Sea~~ Routes + Areas
- oceanside
+

Sandside, Interior

overlays

More elements

Other Designated Routes or Areas:

Bode Map 1:

No Routes or areas on Sandside or
Interior (topo, habitat, infrastructure)

All points + Spits =
VFR

Red in Points + Spits - Yes

min mynt 3/21/08

Permits: YES

Question: How to track violations.

- Free

- distributed by public, (fackle shops) (Rented CC)
NPS during normal operations,
on-line

- Educational (Signed Copy of Regs?)
NO limit

Carrying Capacity - NO

Permits cost: 1yr v.

Residents v. Non Residents

↳ can we do this if no fee

Min. 1/1/18

Renew
X Issued to person b/c education intent

Alcohol: Status quo
look @ in GMP

Beach Fires:

- include info about ^{what is a} legal fire in permit materials.
- other elements to be addressed in the GMP

Fireworks

Anything banned state-wide, banned at ^{start}
 Follow CFR - not allowed

Pets

Dogs OK in Access areas + ^{UFR} ~~UFR~~'s on 6-ft leash → Reserve buffer to take dogs/pets into account. Pick up after dog.

NO Dogs Swim Beach,
 (lifeguarded)

Beyond this
GMP

Min
 mgmt
 8-21-08

General Themes
Minimized Management intensity

- Less Monitors / staff on beach
 less LEs
 Maintenance etc..
- Less time
 Same Volume of people do not need to
 do same volume of work
- less effort.
- ~~less~~ Change in funding

VFR

Area + Route Criteria

1. Ease of boundary enforcement
(Spatial + temporal) → ↑ Staffing + funding
Component
2. Ease of establishing boundary
↳ by visitor use Season?
3. Habitat requirements + Availability
4. Historical use (Resource + visitor)
5. Preferred Visitor Experiences + opportunities
↳ ORV
VFRA's
6. Current Use - Commercial Uses
(UC monitoring on Kenas) Use permits
(lessons, filming etc)
7. Activities provided by
a concessionaire that facilitate
need for more or less areas
8. Historical weather dynamics.
9. Consistency ^{and} geological

Seashore wide:

Consistently Managed:
for safety
(lifeguarded)

May require
change in
Ramp / Gate
Infra structure

Swim Beach.

Not Designated Route
or Area -

~~VRP~~
~~lifeguard station~~

~~VRP~~
TIBD Based
Boundary on
funding +
staffing

VRPA yr-round

Village

~~consistently~~

Not a designated Route or
Area - VRPA Yr. Round

city limits ->
City limits

Campground:

Not a designated a Route or
Area - VRPA yr Round.

Minimised
3/28

appropriate buffer after
last campsite on either

Side Perpendicular to Shoreline

5 PERMITS

YES - TRACK USE (#s)
ASSURE EDUC. / ALL HAVE
SAME INFO

DON'T LIMIT #

PERMIT FEE = COST RECOVERY
~~ONLINE TRAINING & TEST SET~~

~~NEED KIOSK TO OBTAIN PERMIT~~

~~TEMPORARY PERMIT~~

KIOSK AT WELCOME CENTERS
ANNUAL BASIS - ^{PERM. TAG} HANG TAG - TEMP

CLOSURES:

Existing resource

Existing safety
- defined beach width

Existing pedestrian-use

1. Safety - steep, narrow [

2. PEDESTRIAN CLOSURES * HIGH SEASONAL PED USE

~~KEEP AS-IS~~ * ~~EASTER~~ → COLUMBUS DAY

~~CLOSE COQUINA TO ORV~~

VILLAGES [Boundary to Band.]

FRISCO BATHHOUSE

HATT LIGHTHOUSE

CAMPGROUNDS (Ocea Frisco, OI)

PONY PEN

Beach route

Beach route
[if beach widens]

Interdunal route

- 1/2 mi east of Ramp 49
close to ORV except
Beach route b/c wide

3/2/88
E

~~ORV ROUTE~~ VFR

① SAFETY CLOSURES - defined by beach width, steepness; all temporary

② High Seasonal Ped. Use

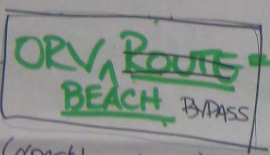
SEASON = EASTER → COLUMBUS DAY

CLOSED TO ~~ALL~~ ORV = VILLAGES (Band to Band)

Add lifeguarded beach-close seasonally

~~CANA Lighthouse~~
~~Lifeguarded Beaches~~
(COQUILA)

~~PEDESTRIAN~~ USE
ESTABLISHED
THRUWAY
BYPASS



(parking on beach)
(Bypass = ~~no~~ standing stopping parking)
PEDESTRIAN ROW

OCCA CAMPGROUND, ~~PONTI PENS~~
FRISCO DAY USE AREA, 1/2 mi
front FRISCO CAMPGROUND,
1/2 mi. front OI Campground

Soundside
close → RAMP 60 - ~~TO~~ PARKING AREA RAMP 59
HANOVER - INCR. PARKING

3 ~~YEAR ROUND PED CLOSURE~~
~~RESOURCE CLOSURES~~

Vehicle free Areas

REMOTE EXPERIENCE AREA (Low Density)

- PARKING
- AWAY FROM VILLAGES
- HISTORICALLY CLOSED

* Ocracoke - Ramp 59 - ~~to~~ Pony Pen
↳ MMT 04 Parking

* RAMP 1 to RAMP 2

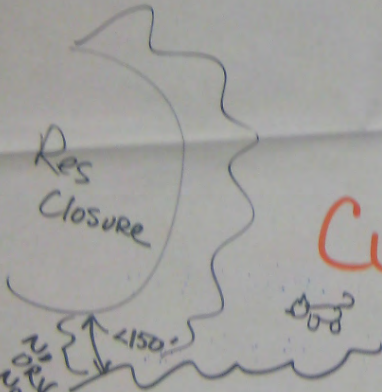
* CAHA Lighthouse - Ramp 43 N to RAMP 38

* RAMP 49 to Village Boundary

④ RESOURCE

~~PETS~~ * VEHICLE FREE RES.
CLOSURE = NO PETS

* Ticket on first offense
= Automatic fine for
Pets off leash ~~with~~
~~leash~~ IN DARK (whole)
(No warnings)



CURRENT MGMT

0020662

USE AREAS:

SAFETY-

→ HOLIDAY WEEKENDS:

ESTABLISH TWO-WAY TRAFFIC
ROUTE

8010518

SPEED LIMITS

- 25mph all over
- 10mph in front of villages & resource areas

EQUIP = ^{REQUIRED} ~~RECOMMENDED~~

TIRE PRESS = REQUIRED

From Workbooks:

- 1) Include Pea Island/USE Pea Island for habitat.
- 2) Re build dunes - Defer to GMP
- 3) Dare County should provide access + Pkg to Beach
- 4) Study "missed" camping opportunities b/c of current camp ground opening/closing dates Being added in 2020
- 5) Lower Speed limit in Villages
- 6) Nest/egg relocation for Birds

Not Carried forward Possibilities
left over from Nov 07 DOT

talk to
State +
USFWS

Meeting

Not carried forward

• NO Nest Relocation for ORUACCS^{Recreation Purpose}
Aroy + Colonial Waterbirds

not
carried
forward

Discourage Nesting

• Create new habitat ^{via}

• Establish beach Shuttle

• Round-the-clock

Final
360s
24hr
good

Enforcement

funding

Probably
lost
Prohibitive
Possibly
Seasonal

permit
fine
out

what
permit

we would
be able to
do

Cooperative
Management
Plan

0020666

- 7) NO Gill net fishing
- 8) Remove bird enclosure in late fall + let on drive on veg
- 9) Do not protect JBA -
- 10) Encourage Birds to Nest in AREAS that do not conflict w/humans

considered
but
not carried
forward

3/21/88

0020667

- fence chicks away from
GRV Corridor
↳ MIKE???

~~FRON~~
FRON

Driving
 Designated Beach Route

Designated OR Route.

↳ either is this or it is not - no separate word for converse

↳ would need to educate (common to all) to convey this.

Use units defined by access
 PTS - trails w/in use units.

waste disposal:

- pack-in / pack out

AID ↳ min maint -
no dumpsters

AIE - Req personal waste
disposal advice

Commercial Fishing - NO NEED
to change - need to live in
villages

Signage improvements

20/1/20

~~Website~~
Education

→ Explanatory product to describe
Results of Process (brochure, website, etc)
↳ common to all

Signage - Common to all

4,44 - Pat-o-Johns Now
Contracted out, not a big labor cost

7055 Dumpsters Now

AH~~D~~^E - ADD Remove ~~Tr~~ Dumpsters
ADD Grinder for fish parts

AH~~D~~ - Remove fish Cleaning
Stations

Remove
with
Johns

Fish Disposal:

→ Coord w/ Dare Co. + Hyck
Crash + fish cleaning
Carry cap alt?

→ Partnership w/ other Org.

→ Fish cleaning

↳ Pamp^{of} 4, 23, 34(?), 44, 43, 55, 72

→ Remove Dumpsters, few acts.
~ \$193K yr.

EO to Reduce Solid Waste →

✗ NO ADD in Dumpsters

↳ b/c EO + Predator mgmt

fish grinder back of envelope
costs \$2,000 yr. Min

Pkg: Ramp maintenance

Ramps - USE clay + clam shell mix.
from Road over done
may be used in Pkg lot but hard to
maintain + control Pkg

→ Addition of apron (concrete) at
ramps where needed (Somewhere?)

Busy holiday wkends
Add ~~port~~ ops to
existing location

Alt B/S → Based on carry
capacity a del/Remove
faulits.

Alt C/D -
Req personal waste
disposal
device

Drainage Improvements
 Been evaluated &
 found not to be a health
 issue

→ Cannot drain wetlands
 floods inter-dunal RD

↳ could elevate road surface

REQ. DRIVERS GO @ Flooding -
 close road

*MARKET RD available parallel to
 existing flooded area

2-3 wks into from Meghan

CORRIDOR WIDTH:

BUFFER TO TOE OF DUNE

30' from toe? SUFFICIENT

RAMP 44 ←
The Narrows ←

All - 30' except for ?

RAMP 44 - bypass road exists

Safety closure, ship wreck

↳ See Sup 07

Narrows beach not a
safety closure

3/15/18

Terminology:

V F R A
Vehicle Free Rec Area

V F A - Vehicle Free Access

ORV Access Area

Route consists of:

Ramps - Driving
Cemden - Driving + Rec.

Interdunal RD - Driving

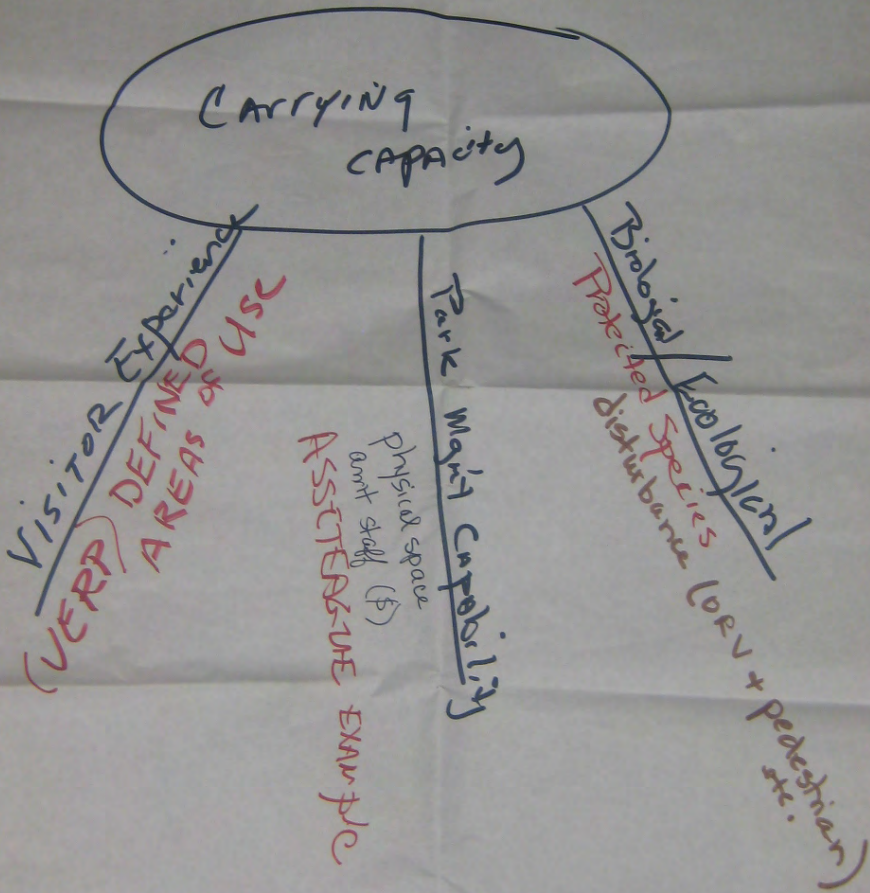
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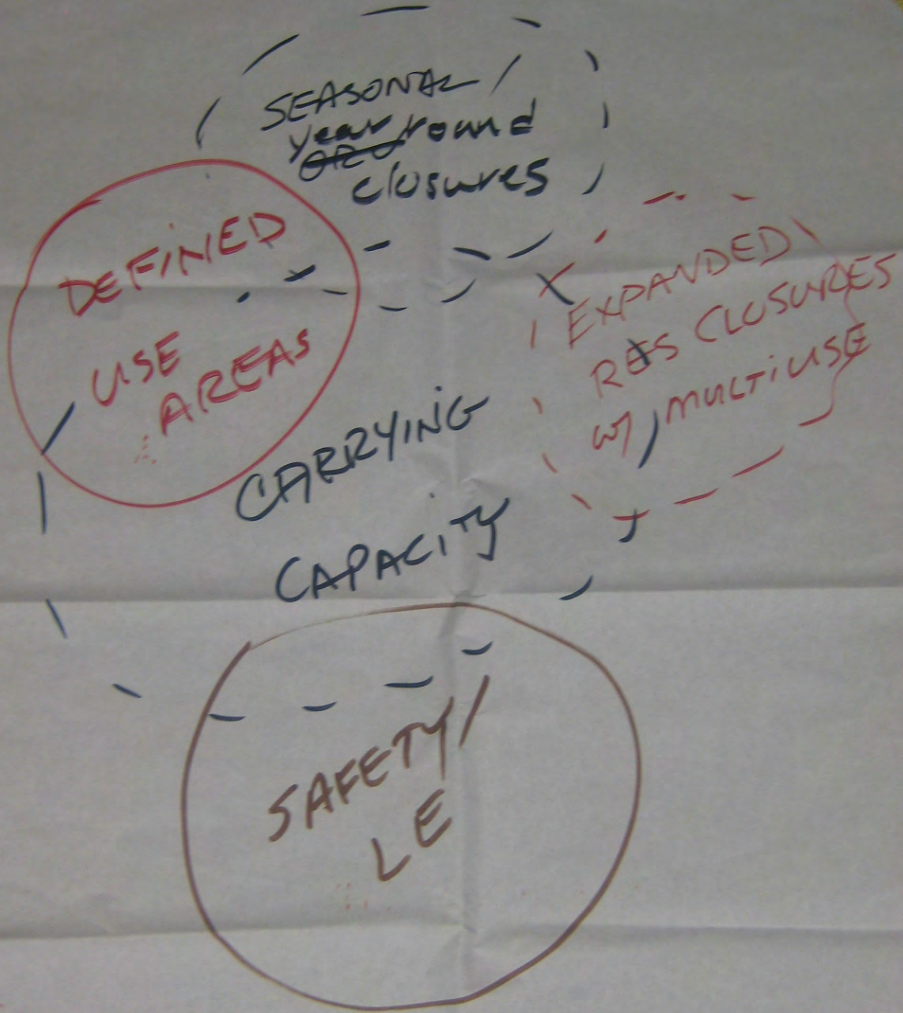
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AITE

Define Safety class =
30ft buffer from toe of dune
+ need at least 10ft corridor to
be open. If open can only
drive in 10ft corridor.
↑ may not be realistic

150ft Corridor = Revisit for
appropriateness





> SELF-REGULATING ~~to~~
to a degree

> legal requirements?

> some ^{or all} Non-DEU AREAS can be seasonal

> non motorized include:

- Seasonal (current or other)
- Year round ()

~~Additional~~

◦ RESOURCE CLOSURES AS APPLICABLE

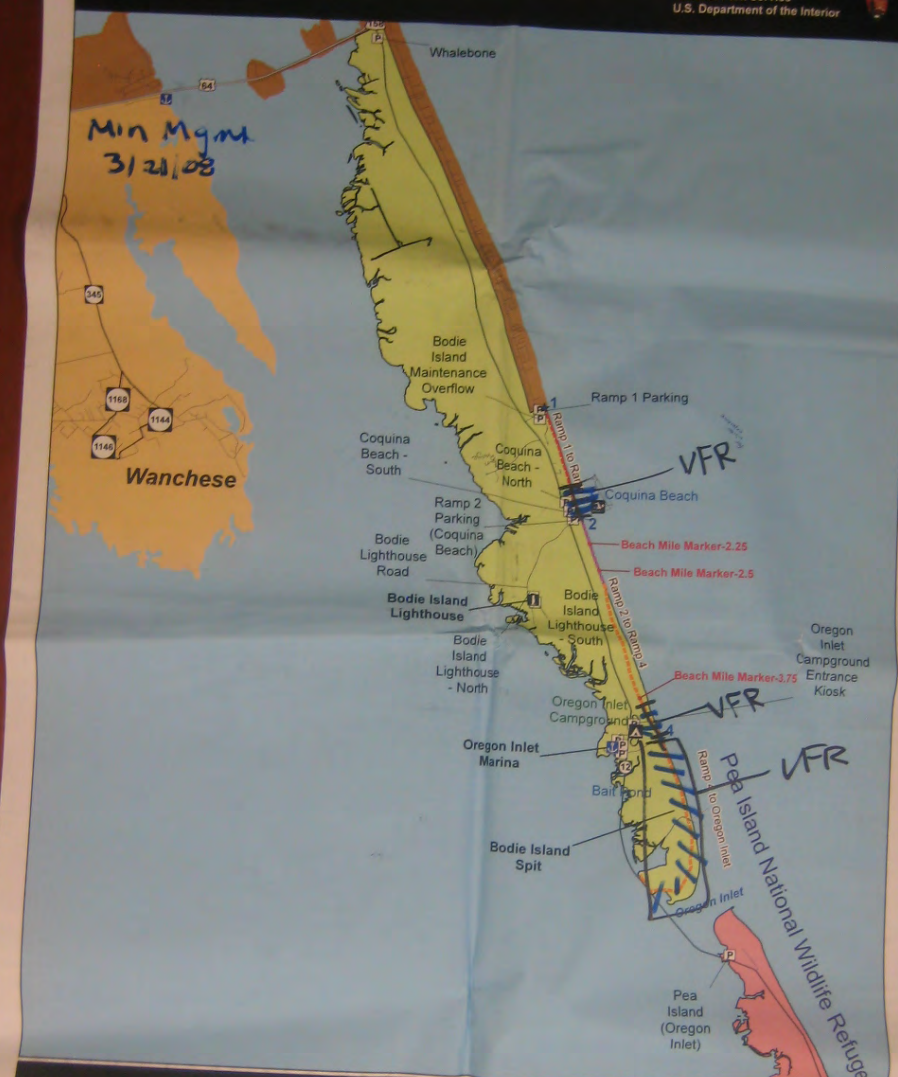
◦ Other? "BULL PEN" concept

> Carrying capacity for ~~zone~~ OR
All Alternatives

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Cape Hatteras National Seashore
North Carolina

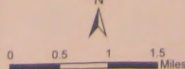
National Park Service
U.S. Department of the Interior



- Legend**
- CAMA Boundary
 - NWR Boundary
 - Villages
 - Boat Ramps
 - Campgrounds
 - Parking Lots
 - Airports
 - Swim Beaches
 - ORV Ramps
 - Oceanside Ramps
 - Soundside Ramps
 - Current Access (status quo) - Ferry Route
 - Closed to ORV Year-Round
 - Seasonally Open to ORV
 - Open to ORV Year-Round*
 - Interstate
 - US Hwy
 - State Hwy
 - Other

Updated 1/15/08

Bodie Island Ranger District
Map 1 of 3



*Areas open to ORV are subject to temporary resource or safety closures.

0020681

Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior

Min Mgmt
03/21/08

Chicamacomico
Life Saving
Museum

Rodanthe

Rodanthe
Fishing
Pier

Salvo

Salvo Day
Use

Ramp 23 Parking

* 23

23

27

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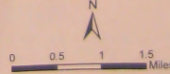
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- Legend**
- CAHA Boundary
 - ORV Ramps
 - Interstate
 - US Hwy
 - State Hwy
 - Other
 - Ferry Route
 - Swim Beaches
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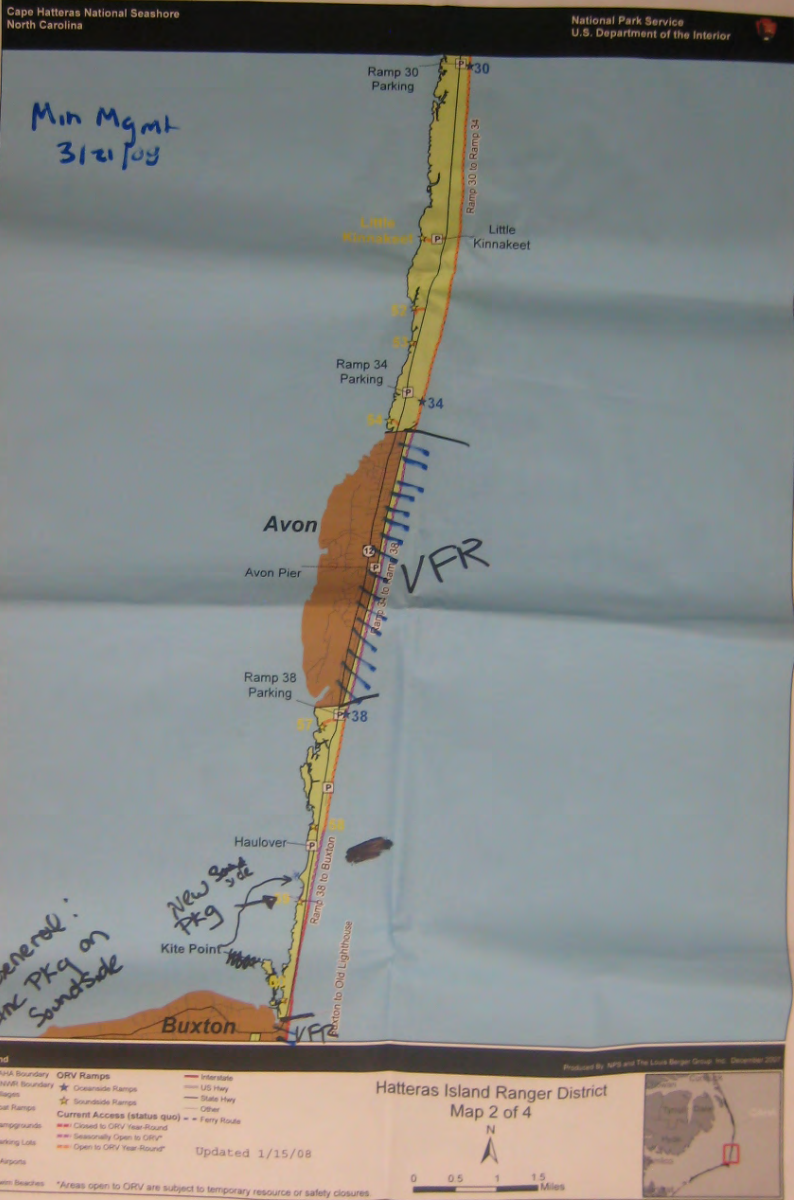
Bodie Island Ranger District Map 3 of 3 &
Hatteras Island Ranger District Map 1 of 4

Updated 1/15/08



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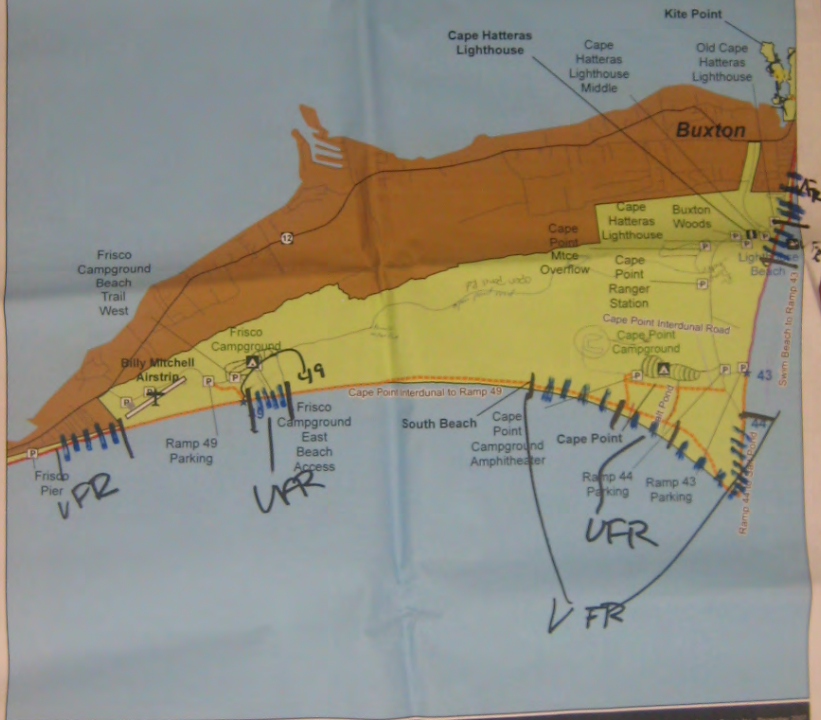


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Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior

Min mgmt
3/21/08

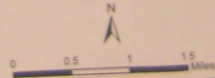


Produced by NPS and The Lone Ranger Group, Inc. December 2007

Legend

- CarN Boundary
 - FHWY Boundary
 - Village
 - Campgrounds
 - Parking Lots
 - Airports
 - Swim Beaches
 - ORV Ramps
 - Seaside Ramps
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 - Current Access (status open)
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 - Interstate
 - US Hwy
 - State Hwy
 - Other
 - Ferry Route
- Updated 1/15/08

Hatteras Island Ranger District
Map 3 or 4



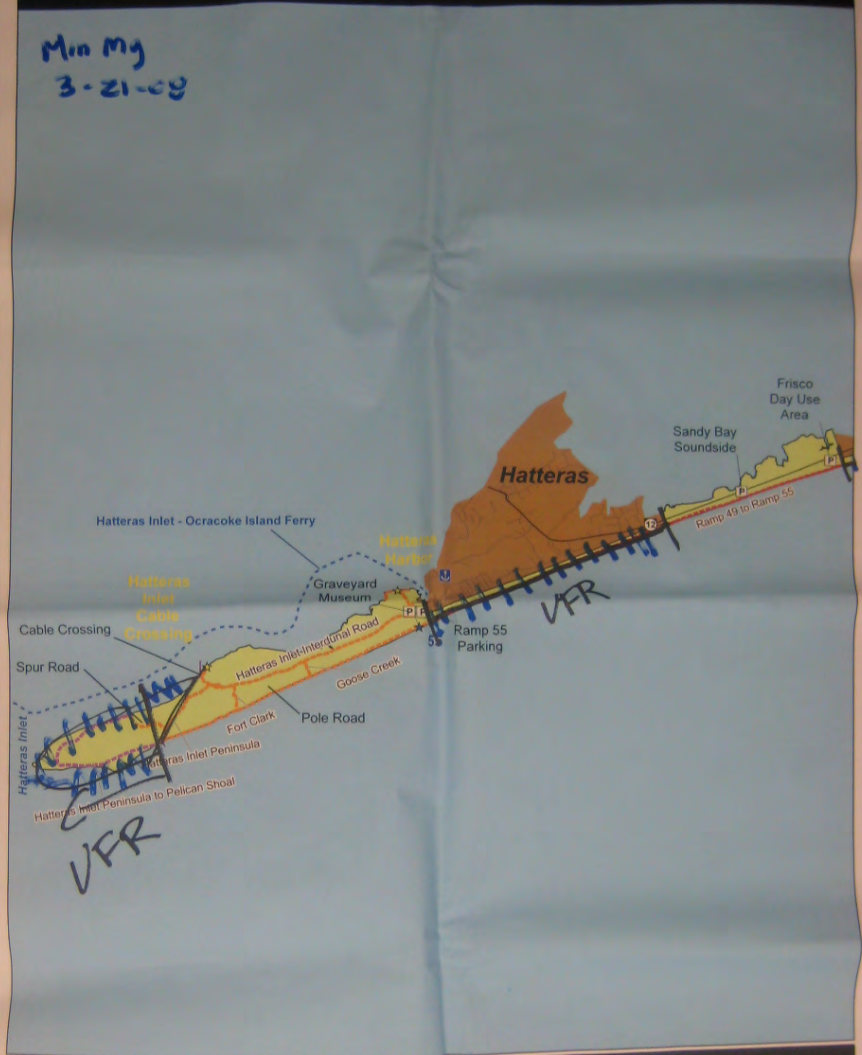
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0020684

Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior

Min Mg
3-21-09

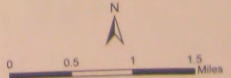


- Legend**
- CAIKK Boundary
 - Private Boundary
 - Village
 - Boat Ramps
 - Campgrounds
 - Parking Lots
 - Airports
 - Swin Beaches
 - ORV Ramps
 - Ocean-side Ramps
 - Sound-side Ramps
 - Current Access (status quo) -
 - Closed to ORV Year-Round
 - Seasonally Open to ORV
 - Open to ORV Year-Round
 - Interstate
 - US Hwy
 - State Hwy
 - Other
 - Ferry Route

Updated 1/15/08

Produced by NPS and The Love Ranger Group, Inc., December 2007

Hatteras Island Ranger District
Map 4 of 4



0020685

Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior

Min Mgmt
3-21-08



Legend

- CAVA Boundary
- PNNWR Boundary
- Wedges
- Boat Ramps
- Campgrounds
- Parking Lots
- Airports
- Swim Beaches
- ORV Ramps
- Oceanside Ramps
- Soundside Ramps
- Current Access (status quo)
- Closed to ORV Year Round
- Seasonally Open to ORV
- Open to ORV Year Round
- Interstate
- US Hwy
- State Hwy
- Other
- Ferry Route

Updated 1/15/08

Ocracoke Island Ranger District
Map 1 of 2



Produced By NPS and The Louis Berger Group, Inc. December 2007

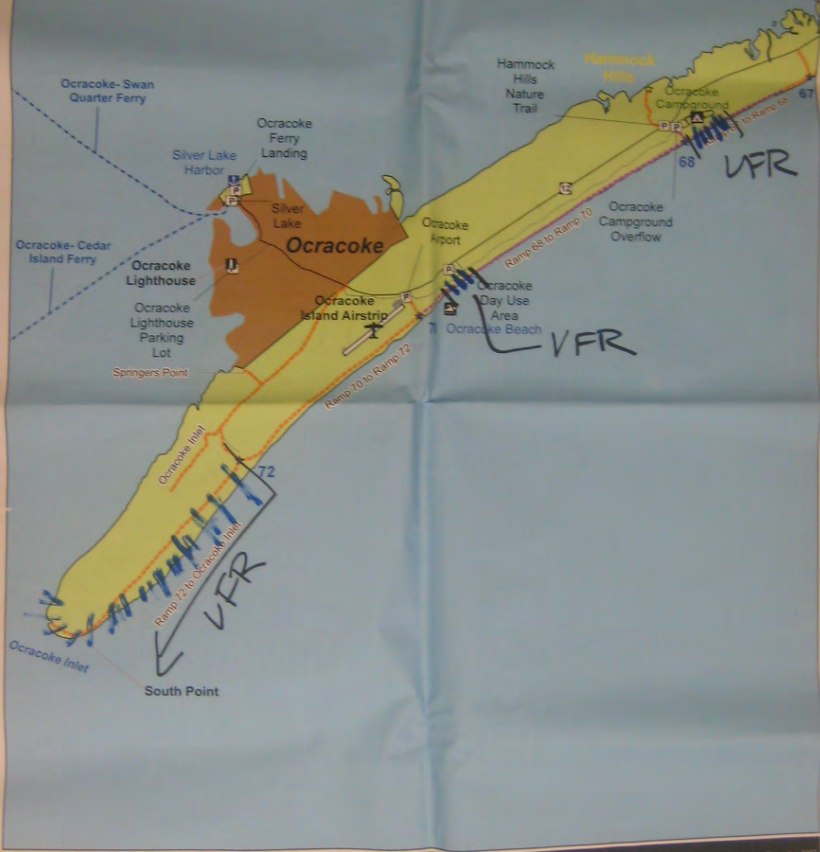
*Areas open to ORV are subject to temporary resource or safety closures.

0020686

Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior

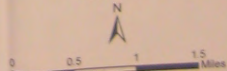
Min Mgmt
3-21-08



- Legend**
- Creek Boundary
 - ORV Ramps
 - Interstate
 - Ferry Boundary
 - Ocracoke Ramps
 - US Hwy
 - Villages
 - Soundside Ramps
 - State Hwy
 - Boat Ramps
 - Other
 - Campgrounds
 - Ferry Route
 - Parking Lots
 - Airports
 - Swim Beaches
- Current Access (status code)**
- Closed to ORV Year-Round
 - Seasonally Open to ORV
 - Open to ORV Year-Round

Updated 1/15/08

Ocracoke Island Ranger District
Map 2 of 2



*Areas open to ORV are subject to temporary resource or safety closures.

0020687

Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior

MAY 1 - SEPT 30
All subject to species closures

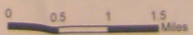


3/20/08 ALT. C

- Legend**
- CAHA Boundary
 - PIWNR Boundary
 - Villages
 - Boat Ramps
 - Campgrounds
 - Parking Lots
 - Airports
 - Swim Beaches
 - ORV Ramps
 - Ocean-side Ramps
 - Sound-side Ramps
 - Current Access (status quo)
 - Closed to ORV Year-Round
 - Seasonally Open to ORV*
 - Open to ORV Year-Round*
 - Islands
 - US Hwy
 - State Hwy
 - Other
 - Ferry Route

Bodie Island Ranger District
Map 1 of 3

Updated 1/15/08



*Areas open to ORV are subject to temporary resource or safety closures.

0020688

Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior



3/20/08 ALT C.

Legend	ORV Ramps	Interstate
CAHNS Boundary	ORV Ramps	US Hwy
PNWV Boundary	Coastal Ramps	State Hwy
Villages	Soundside Ramps	Other
Boat Ramps	Current Access (status quo)	- - - Ferry Route
Campgrounds	● Closed to ORV Year Round	
Parking Lots	○ Seasonally Open to ORV*	
Airports	○ Open to ORV Year Round*	
Swim Beaches		

Updated 1/15/08

Bodie Island Ranger District
Map 2 of 3

0 0.5 1 1.5 Miles

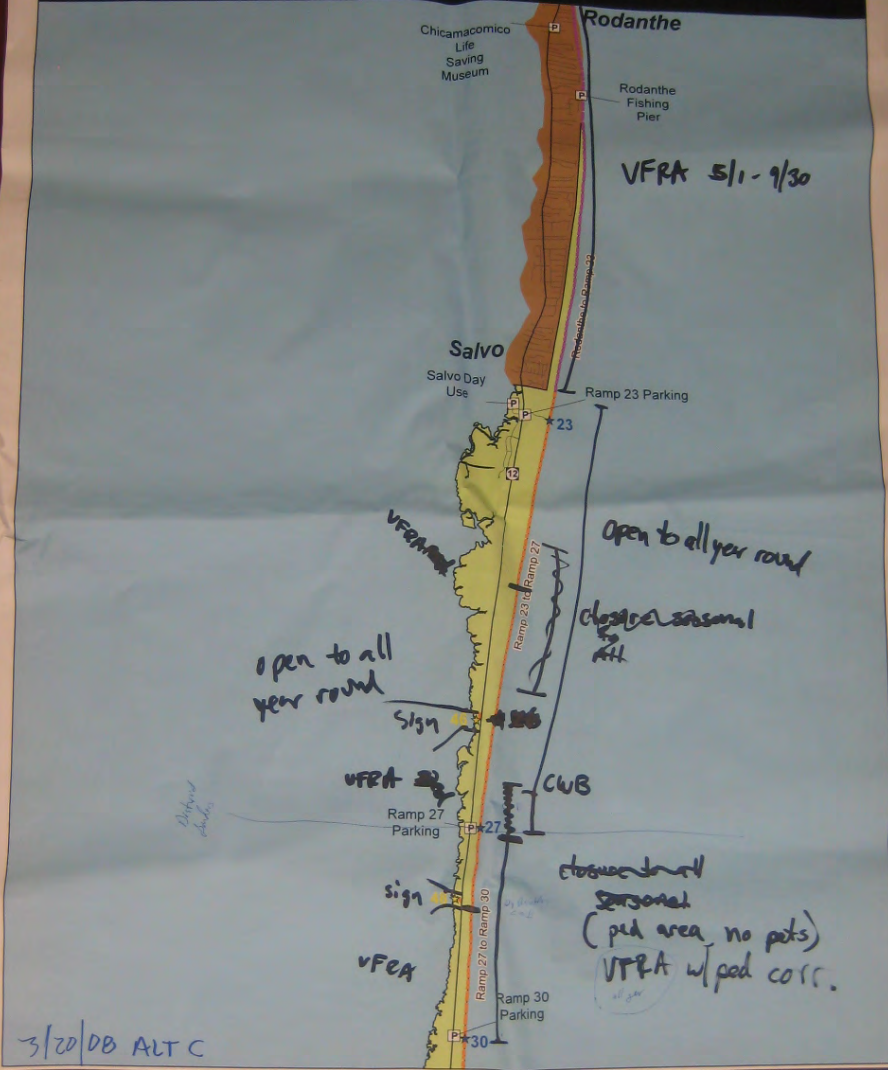
Produced By: NPS and The Louis Berger Group, Inc. December 2007

*Areas open to ORV are subject to temporary resource or safety closures.

0020689

Cape Hatteras National Seashore
North Carolina

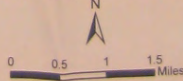
National Park Service
U.S. Department of the Interior



- Legend**
- CAHA Boundary
 - PINWR Boundary
 - Villages
 - Boat Ramps
 - Campgrounds
 - Parking Lots
 - Airports
 - Swim Beaches
 - ORV Ramps
 - Oceanside Ramps
 - Soundside Ramps
 - Current Access (status quo)
 - Closed to ORV Year-Round
 - Seasonally Open to ORV
 - Open to ORV Year-Round
 - Interstate
 - US Hwy
 - State Hwy
 - Other
 - Ferry Route

Bodie Island Ranger District Map 3 of 3 &
Hatteras Island Ranger District Map 1 of 4

Updated 1/15/08

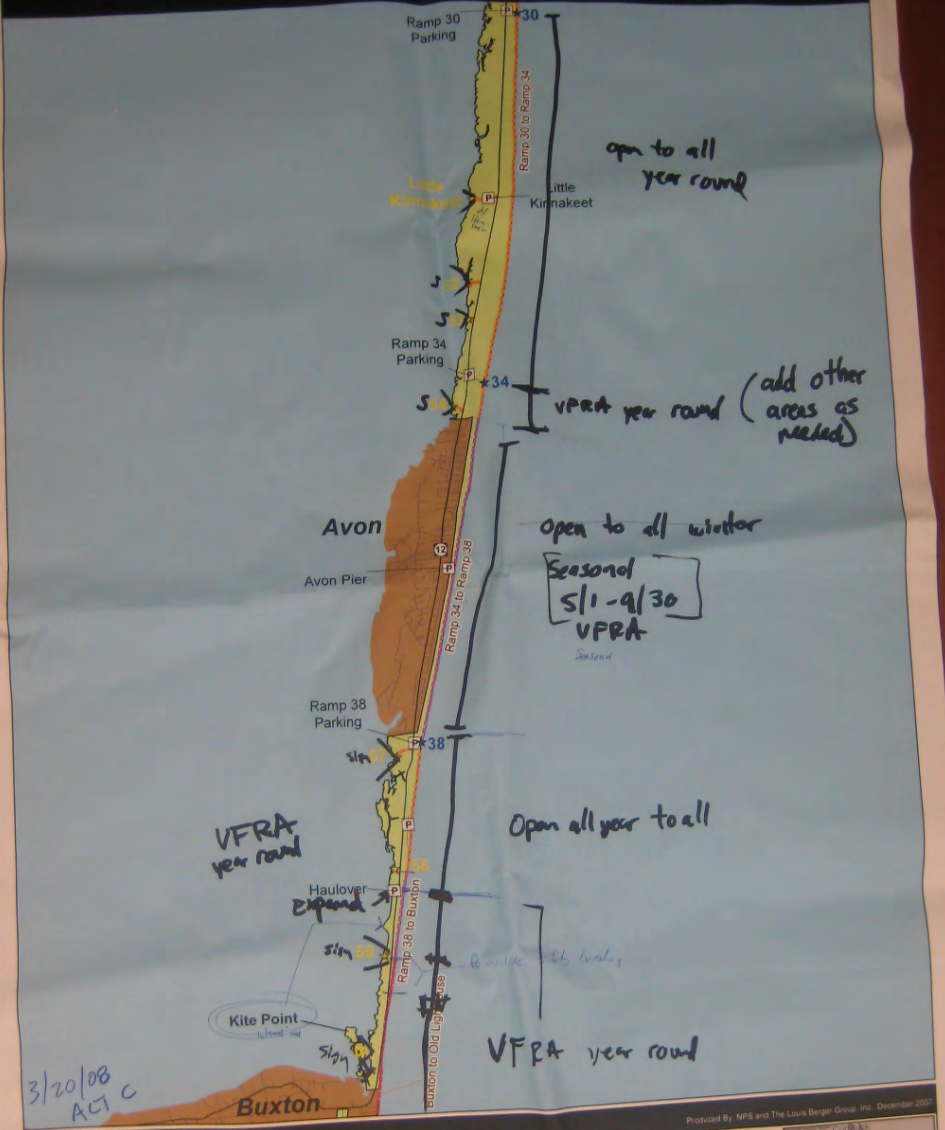


*Areas open to ORV are subject to temporary resource or safety closures.

0020690

Cape Hatteras National Seashore
North Carolina

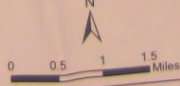
National Park Service
U.S. Department of the Interior



- Legend**
- CAHA Boundary
 - FINWR Boundary
 - Villages
 - Boat Ramps
 - Campgrounds
 - Parking Lots
 - Airports
 - Swim Beaches
 - ORV Ramps
 - Oceanside Ramps
 - Soundside Ramps
 - Current Access (status quo)
 - Closed to ORV Year Round
 - Seasonally Open to ORV*
 - Open to ORV Year Round*
 - Interstate
 - US Hwy
 - State Hwy
 - Other
 - Ferry Route

Updated 1/15/08

Hatteras Island Ranger District
Map 2 of 4



3/20/08
ALC

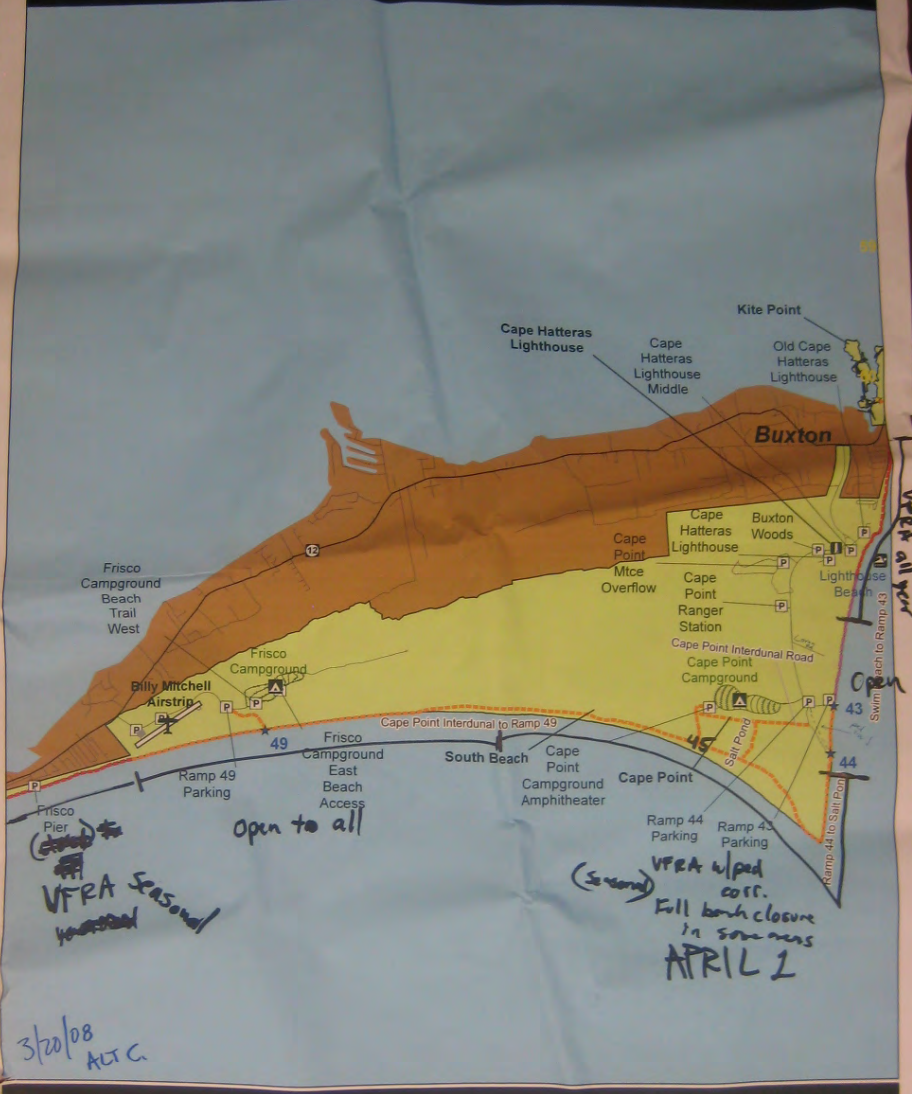
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0020691

Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior



Legend

- CANA Boundary
- PINWR Boundary
- Villages
- Boat Ramps
- Campgrounds
- Parking Lots
- Airports
- Swim Beaches
- ORV Ramps
- Coastside Ramps
- Soundside Ramps
- Current Access (status quo)
 - Closed to ORV Year-Round
 - Seasonally Open to ORV
 - Open to ORV Year-Round
- Interstate
- US Hwy
- State Hwy
- Other
- Ferry Route

Updated 1/15/08

Hatteras Island Ranger District
Map 3 or 4

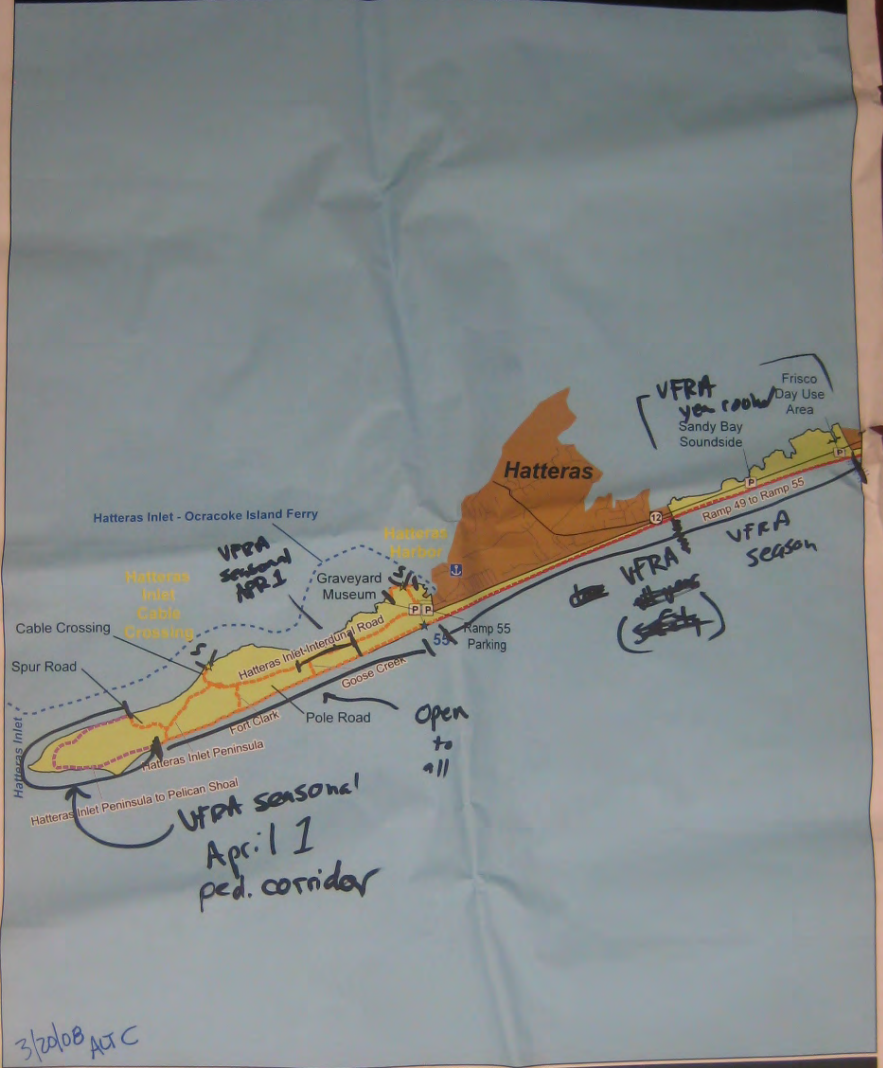


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0020692

Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior



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Legend

CAHA Boundary	ORV Ramps	Interstate
PINWR Boundary	Oceanside Ramps	US Hwy
Villages	Soundside Ramps	State Hwy
Boat Ramps	Other	Ferry Route
Campgrounds	Current Access (status quo)	
Parking Lots	Closed to ORV Year-Round	
Airports	Seasonally Open to ORV	
Swim Beaches	Open to ORV Year-Round*	

*Areas open to ORV are subject to temporary resource or safety closures.

Updated 1/15/08

Hatteras Island Ranger District
Map 4 of 4

0 0.5 1 1.5 Miles

0020693

Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior



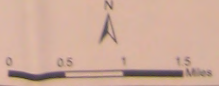
Legend

CAHA Boundary	ORV Ratings	Interstate
FWMR Boundary	Downside Ramps	US Hwy
Villages	Soundside Ramps	State Hwy
Boat Ramps	Other	Ferry Route
Campgrounds	Current Access (status quo) = = Ferry Route	
Parking Lots	Closed to ORV Year-Round	
Airports	Seasonally Open to ORV*	
Swain Beaches	Open to ORV Year-Round*	

*Areas open to ORV are subject to temporary resource or safety closures

Updated 1/15/08

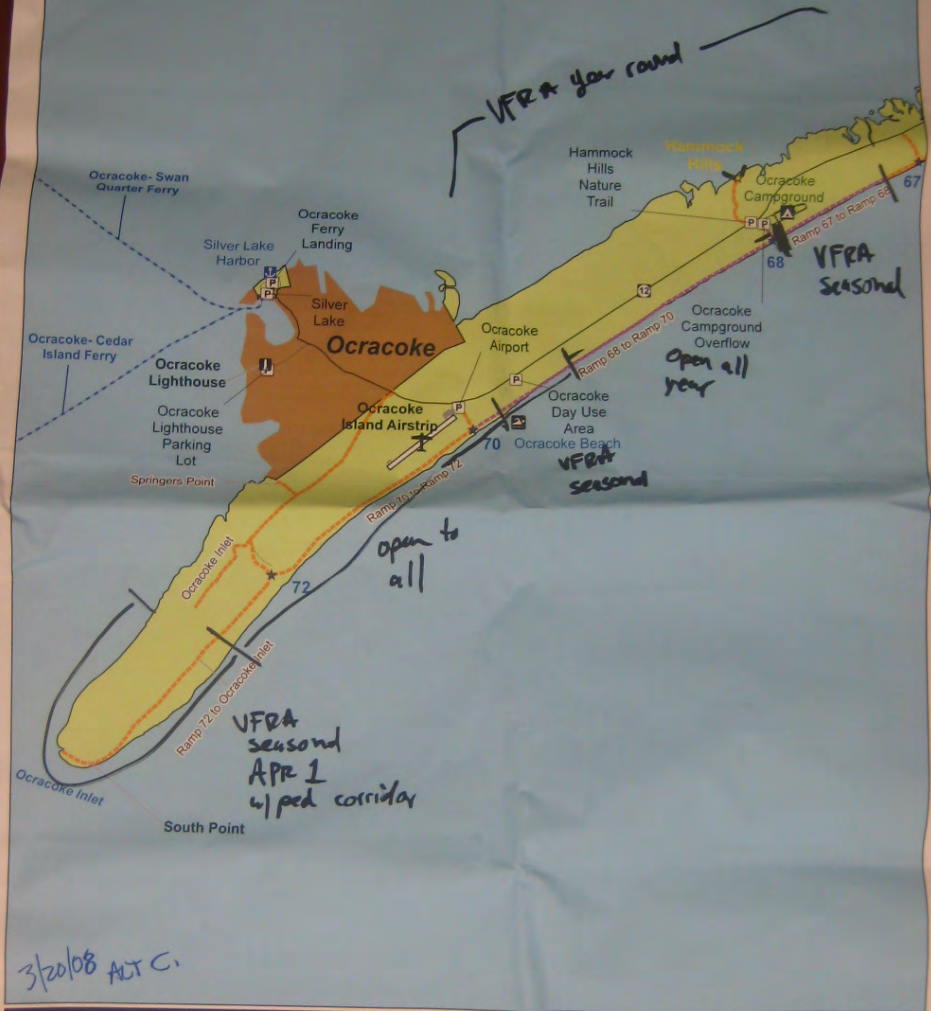
Ocracoke Island Ranger District
Map 1 of 2



0020694

Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior



Legend

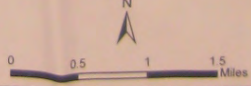
- CAHA Boundary
- PINWR Boundary
- Villages
- Boat Ramps
- Campgrounds
- Parking Lots
- Airports
- Swim Beaches
- ORV Ramps
- Seaside Ramps
- Current Access (status quo)
- Closed to ORV Year-Round
- Seasonally Open to ORV*
- Open to ORV Year-Round*
- Interstate
- US Hwy
- Slate Hwy
- Other
- Ferry Route

*Areas open to ORV are subject to temporary resource or safety closures.

Ocracoke Island Ranger District
Map 2 of 2

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Updated 1/15/08



3/20/08 ALT C.

Cape Hatteras National Seashore
North Carolina

National Park Service
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Legend

CAHNS Boundary	ORV Ramps	Interstate
PNNWR Boundary	Oceanside Ramps	US Hwy
Villages	Soundside Ramps	State Hwy
Boat Ramps	Current Access (status quo)	Other
Campgrounds	Closed to ORV Year-Round	Ferry Route
Parking Lots	Seasonally Open to ORV	
Airports	Open to ORV Year-Round	
Swim Beaches	*Areas open to ORV are subject to temporary resource or safety closures.	

Updated 1/15/08

**Bodie Island Ranger District
Map 1 of 3**

0 0.5 1 1.5 Miles

0020696

Cape Hatteras National Seashore
North Carolina

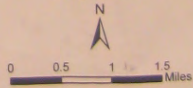
National Park Service
U.S. Department of the Interior



- Legend**
- CAMA Boundary
 - PINWR Boundary
 - Villages
 - Boat Ramps
 - Campgrounds
 - Parking Lots
 - Airports
 - Swim Beaches
 - ORV Ramps
 - Oceanade Ramps
 - Soundade Ramps
 - Current Access (status quo)
 - Interstate
 - US Hwy
 - State Hwy
 - Other
 - Ferry Route
 - Closed to ORV Year-Round
 - Seasonally Open to ORV
 - Open to ORV Year-Round*

Updated 1/15/08

Bodie Island Ranger District
Map 2 of 3



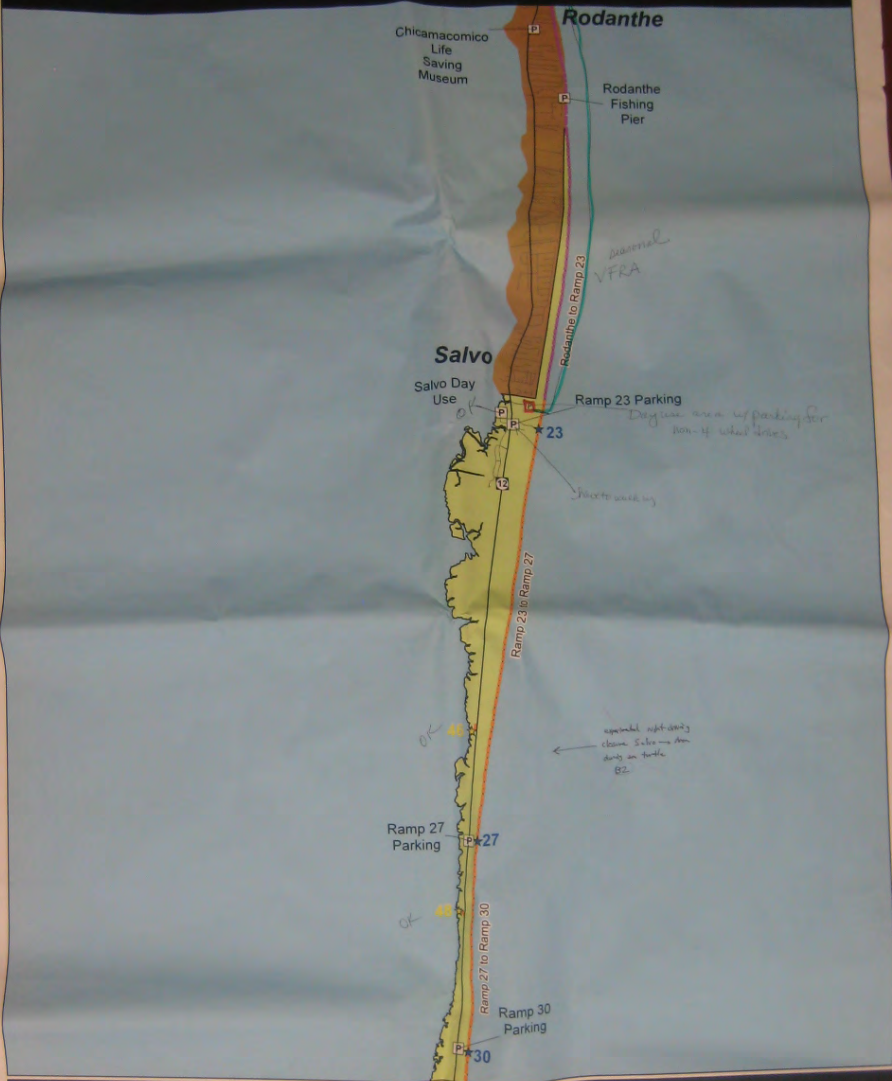
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0020697

Cape Hatteras National Seashore
North Carolina

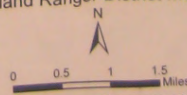
National Park Service
U.S. Department of the Interior



- Legend**
- CANA Boundary
 - PINWR Boundary
 - Villages
 - Boat Ramps
 - Campgrounds
 - Parking Lots
 - ✈ Airports
 - ☼ Swim Beaches
 - ORV Ramps
 - ★ Ocean-side Ramps
 - ✈ Sound-side Ramps
 - Current Access (status quo)
 - Closed to ORV Year-Round
 - Seasonally Open to ORV*
 - Open to ORV Year-Round*
 - Interstate
 - US Hwy
 - State Hwy
 - Other
 - Ferry Route

Bodie Island Ranger District Map 3 of 3 &
Hatteras Island Ranger District Map 1 of 4

Updated 1/15/08

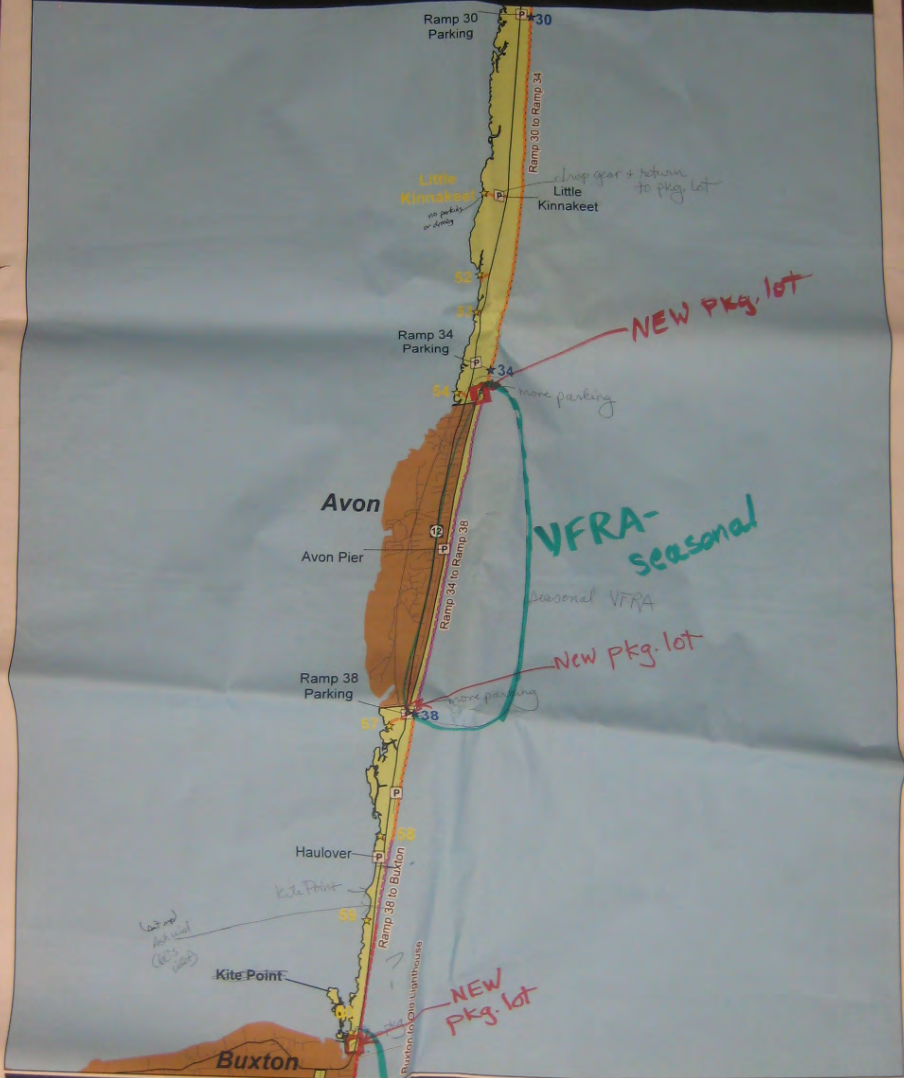


*Areas open to ORV are subject to temporary resource or safety closures.

0020698

Cape Hatteras National Seashore
North Carolina

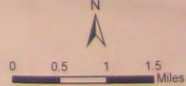
National Park Service
U.S. Department of the Interior



- Legend**
- Land Boundary
 - Private Boundary
 - Villages
 - Boat Ramps
 - Campgrounds
 - Parking Lots
 - Airports
 - Swim Beaches
 - ORV Ramps
 - Oceanside Ramps
 - Soundside Ramps
 - Current Access (status quo)
 - Closed to ORV Year-Round
 - Seasonally Open to ORV
 - Open to ORV Year-Round
 - Interstate
 - US Hwy
 - State Hwy
 - Other
 - Ferry Route

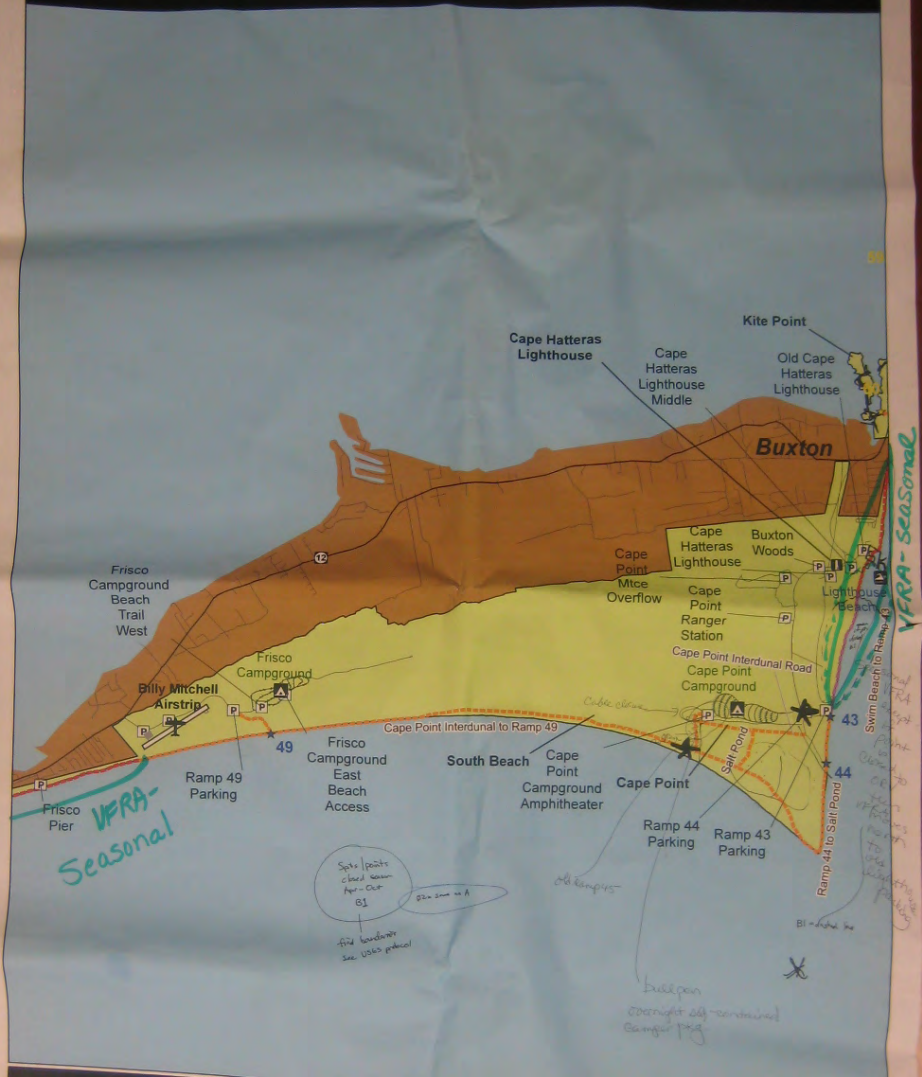
Updated 1/15/08

Hatteras Island Ranger District Map 2 of 4



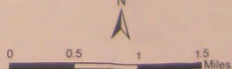
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- Legend**
- CAHA Boundary
 - PINWR Boundary
 - Villages
 - Boat Ramps
 - Campgrounds
 - Parking Lots
 - Airports
 - Swim Beaches
 - ORV Ramps
 - Coastside Ramps
 - Soundside Ramps
 - Current Access (status quo)
 - Closed to ORV Year-Round
 - Seasonally Open to ORV*
 - Open to ORV Year-Round*
 - Interstate
 - US Hwy
 - State Hwy
 - Other
 - Ferry Route
- Updated 1/15/08

Hatteras Island Ranger District
Map 3 or 4



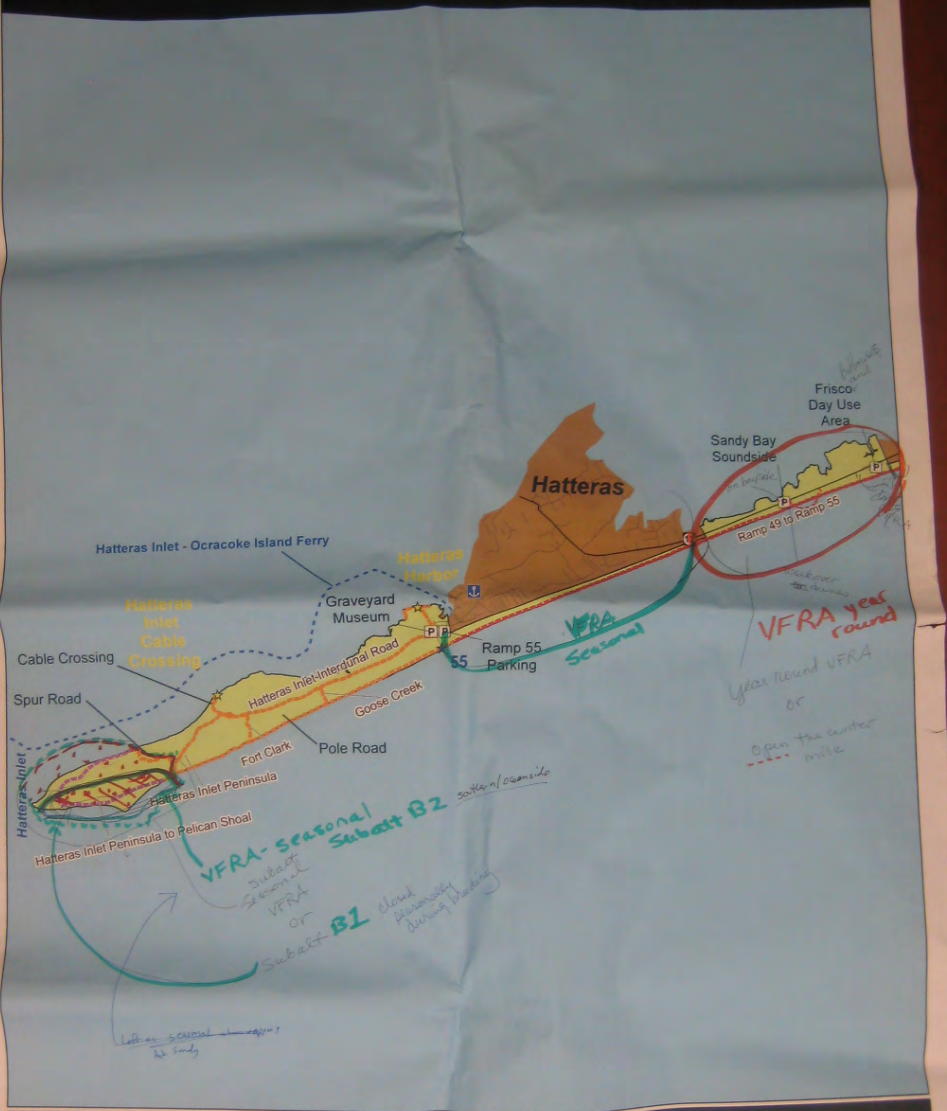
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0020700

Cape Hatteras National Seashore
North Carolina

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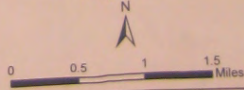
Legend

- CAHA Boundary
- PIMA/R Boundary
- Villages
- Boat Ramps
- Campgrounds
- Parking Lots
- Airports
- Swim Beaches
- ORV Ramps
- Ocean-side Ramps
- Soundside Ramps
- Current Access (status quo) = Ferry Route
- Closed to ORV Year-Round
- Seasonally Open to ORV*
- Open to ORV Year-Round*

Updated 1/15/08

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Hatteras Island Ranger District
Map 4 of 4



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0020701

Cape Hatteras National Seashore
North Carolina

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U.S. Department of the Interior

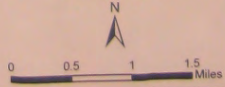


Legend

- OAHM Boundary
- PINWR Boundary
- Villages
- Boat Ramps
- Campgrounds
- Parking Lots
- Airports
- Swim Beaches
- ORV Ramps
- Soundside Ramps
- Soundside Ramps
- Current Access (status quo)
 - Closed to ORV Year-Round
 - Seasonally Open to ORV*
 - Open to ORV Year-Round*
- Interstate
- US Hwy
- State Hwy
- Other
- Ferry Route

Updated 1/15/08

Ocracoke Island Ranger District
Map 1 of 2



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0020702

Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior

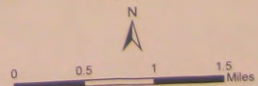


Legend

- CAHA Boundary
- PINWR Boundary
- Villages
- Boat Ramps
- Campgrounds
- Parking Lots
- Airports
- Swim Beaches
- ★ ORV Ramps
- ★ Oceanside Ramps
- ★ Soundside Ramps
- ★ Current Access (status quo)
- ★ Closed to ORV Year-Round
- ★ Seasonally Open to ORV*
- ★ Open to ORV Year-Round*
- Interstate
- US Hwy
- State Hwy
- Other
- Ferry Route

Updated 1/15/08

Ocracoke Island Ranger District
Map 2 of 2



Produced By NPS and The Louis Berger Group, Inc. December 2007

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0020703

Cape Hatteras National Seashore North Carolina National Park Service U.S. Department of the Interior



Legend

CAHA Boundary	ORV Ramps	Interstate
PINWR Boundary	Oceanside Ramps	US Hwy
Villages	Soundside Ramps	State Hwy
Boat Ramps	Current Access (status quo)	Other
Campgrounds	Closed to ORV Year-Round	Ferry Route
Parking Lots	Seasonally Open to ORV	
Airports	Open to ORV Year-Round	
Swim Beaches	*Areas open to ORV are subject to temporary resource or safety closures	

Updated 1/15/08

Bodie Island Ranger District
Map 1 of 3

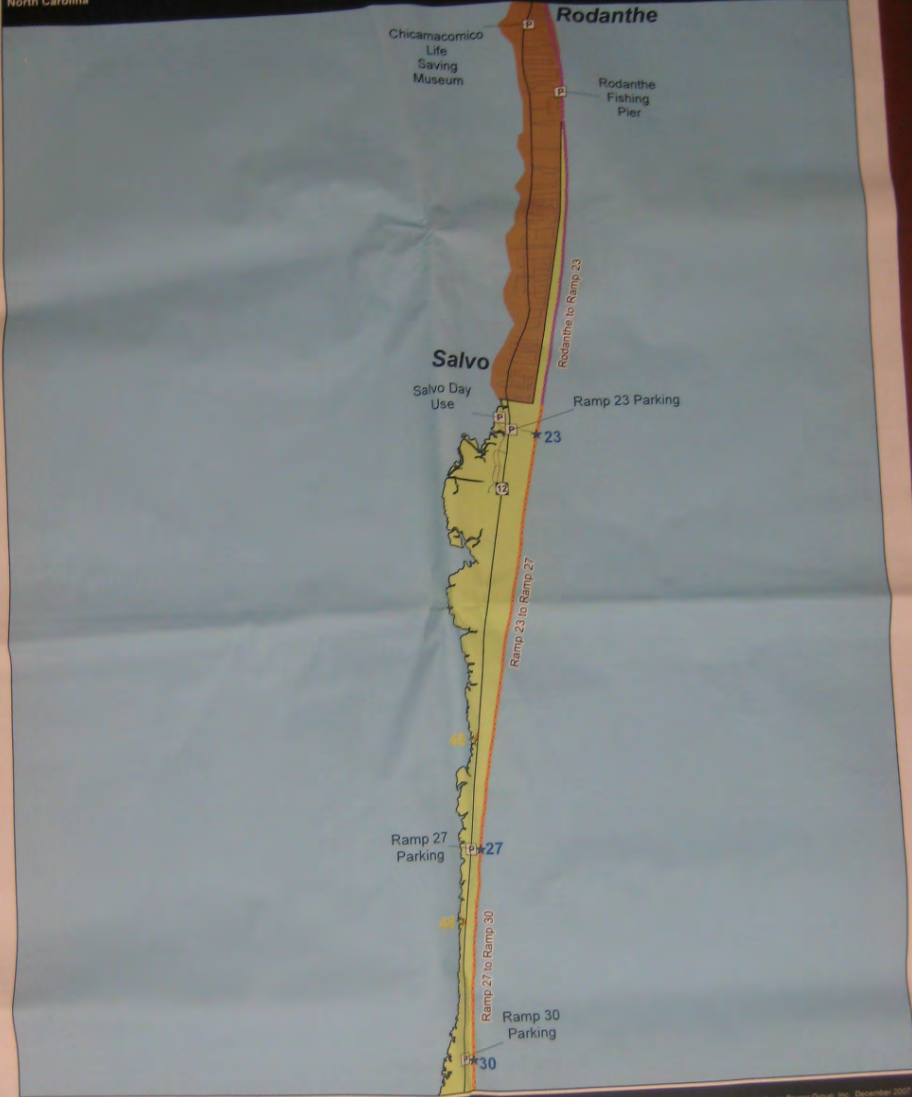
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0 0.5 1 1.5 Miles

0020704

Cape Hatteras National Seashore
North Carolina

National Park Service
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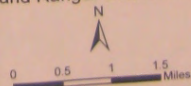


Legend

- | | | |
|---------------|---|------------|
| CASH Boundary | ORV Ramps | Interstate |
| PIMA Boundary | Oceanside Ramps | US Hwy |
| Villages | Soundside Ramps | State Hwy |
| Boat Ramps | Current Access (status quo) = Ferry Route | Other |
| Campgrounds | Closed to ORV Year-Round | |
| Parking Lots | Seasonally Open to ORV* | |
| Airports | Open to ORV Year-Round* | |
| Swim Beaches | | |
- *Areas open to ORV are subject to temporary resource or safety closures.

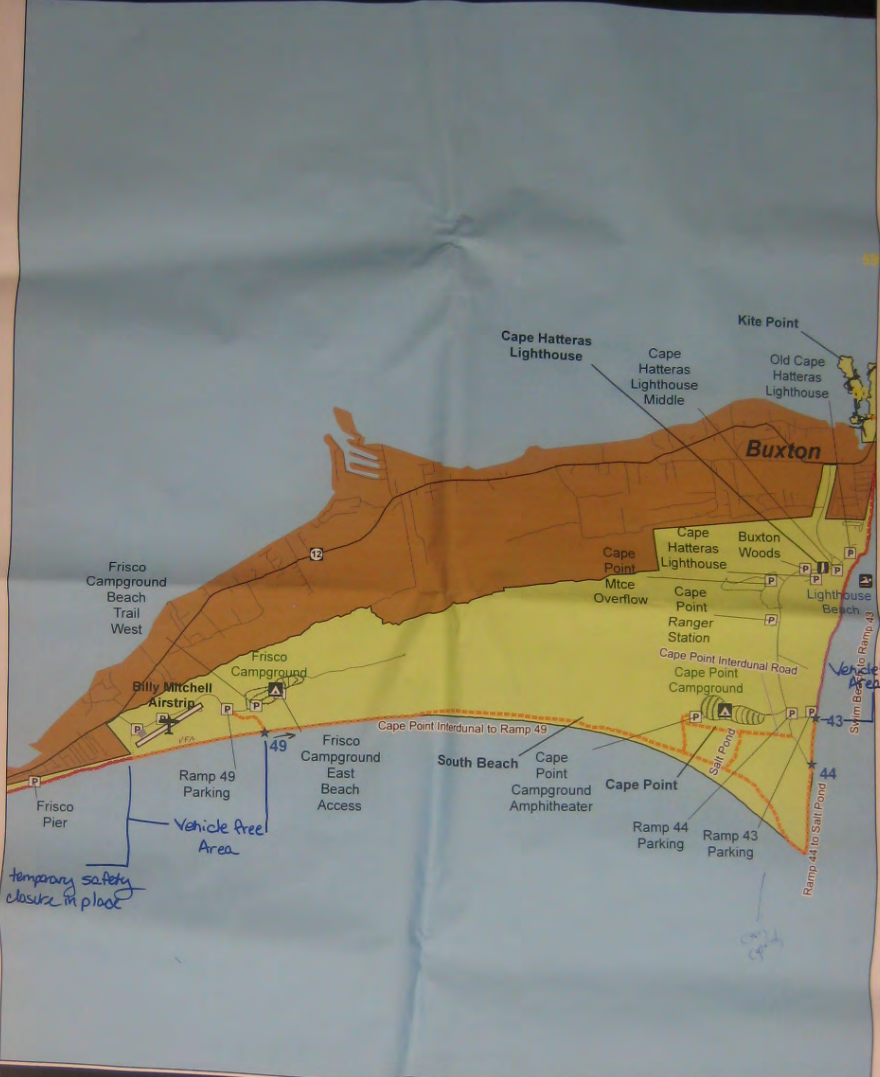
Bodie Island Ranger District Map 3 of 3 &
Hatteras Island Ranger District Map 1 of 4

Updated 1/15/08



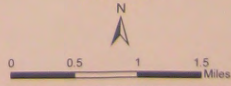
0020705





- Legend**
- CAHA Boundary
 - PNWR Boundary
 - Villages
 - Boat Ramps
 - Campgrounds
 - Parking Lots
 - Airports
 - Swim Beaches
 - ORV Ramps
 - Oceanwide Ramps
 - Soundside Ramps
 - Current Access (status quo)
 - Closed to ORV Year-Round
 - Seasonally Open to ORV*
 - Open to ORV Year-Round*
 - Interstate
 - US Hwy
 - State Hwy
 - Other
 - Ferry Route

Hatteras Island Ranger District
Map 3 or 4



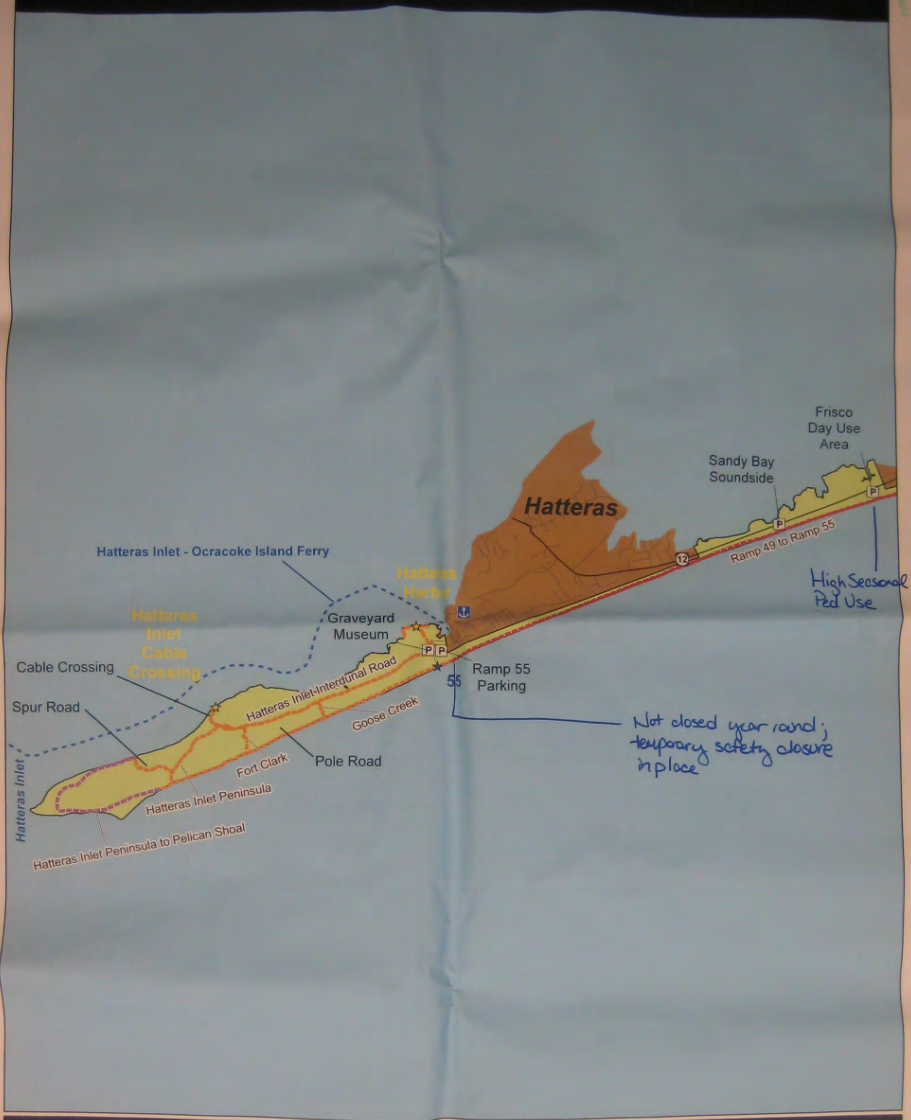
Updated 1/15/08

*Areas open to ORV are subject to temporary resource or safety closures.

0020707

Cape Hatteras National Seashore
North Carolina

National Park Service
U.S. Department of the Interior



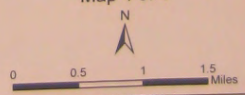
Legend

CAHA Boundary	ORV Ramps	Interstate
PINWR Boundary	Ocean-side Ramps	US Hwy
Villages	Soundside Ramps	State Hwy
Boat Ramps	Current Access (status quo)	Other
Campgrounds	Closed to ORV Year-Round	Ferry Route
Parking Lots	Seasonally Open to ORV*	
Airports	Open to ORV Year-Round*	
Swim Beaches		

*Areas open to ORV are subject to temporary resource or safety closures.

Updated 1/15/08

Hatteras Island Ranger District
Map 4 of 4



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0020708

Cape Hatteras National Seashore
North Carolina

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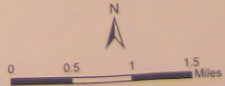


Legend

- CNHR Boundary
- PINWR Boundary
- Villages
- Boat Ramps
- Campgrounds
- Parking Lots
- Airports
- Swim Beaches
- ORV Ramps
- ★ Ocean-side Ramps
- ★ Sound-side Ramps
- Closed to ORV Year-Round
- Seasonally Open to ORV*
- Open to ORV Year-Round*
- Interstate
- US Hwy
- State Hwy
- Other
- Ferry Route

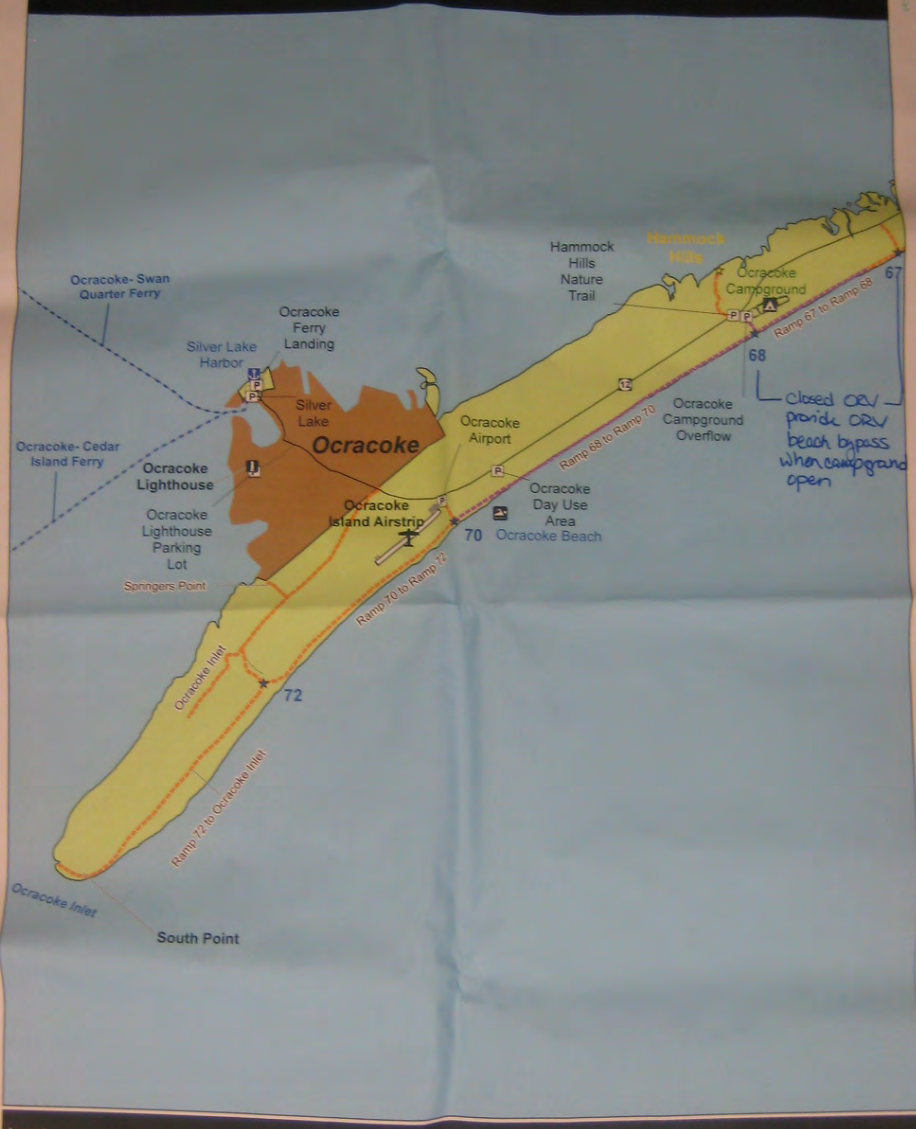
Updated 1/15/08

Ocracoke Island Ranger District
Map 1 of 2



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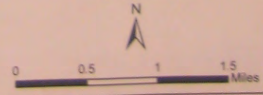
Legend

- CA/NS Boundary
- PINWR Boundary
- Villages
- Boat Ramps
- Campgrounds
- Parking Lots
- Airports
- Steep Beaches
- ORV Ramps
- Coastside Ramps
- Soundside Ramps
- Current Access (status quo)
- Closed to ORV Year-Round
- Seasonally Open to ORV
- Open to ORV Year-Round
- Interstate
- US Hwy
- State Hwy
- Other
- Ferry Route

Updated 1/15/08

Ocracoke Island Ranger District
Map 2 of 2

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*Areas open to ORV are subject to temporary resource or safety closures.