

# The 'SWIFT' app – Site Condition Monitoring on mobile devices

**Zoë Russell**  
**Scottish Natural Heritage**  
**United Kingdom**



## Scotland's natural heritage



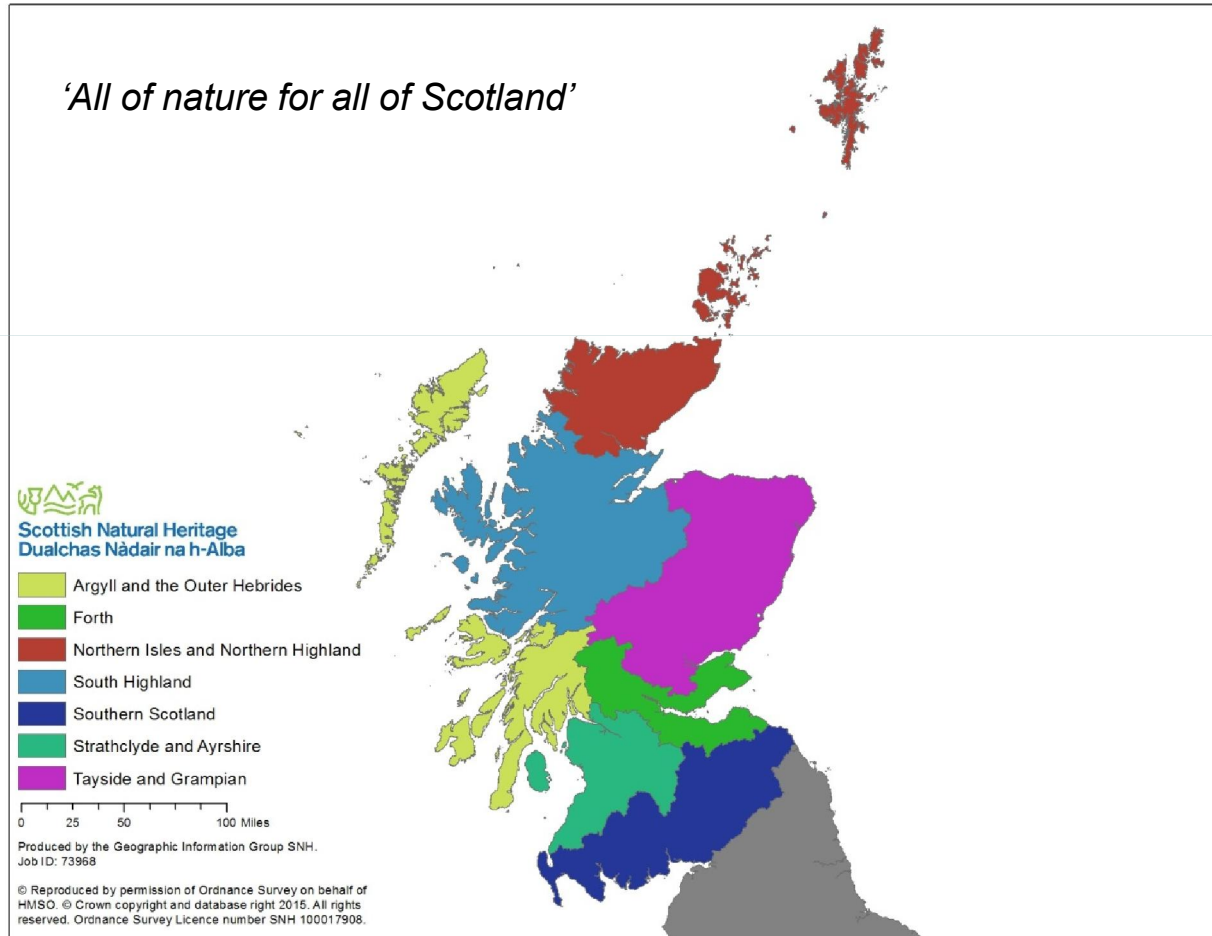
Snow on the Cairngorm mountains © Z Russell



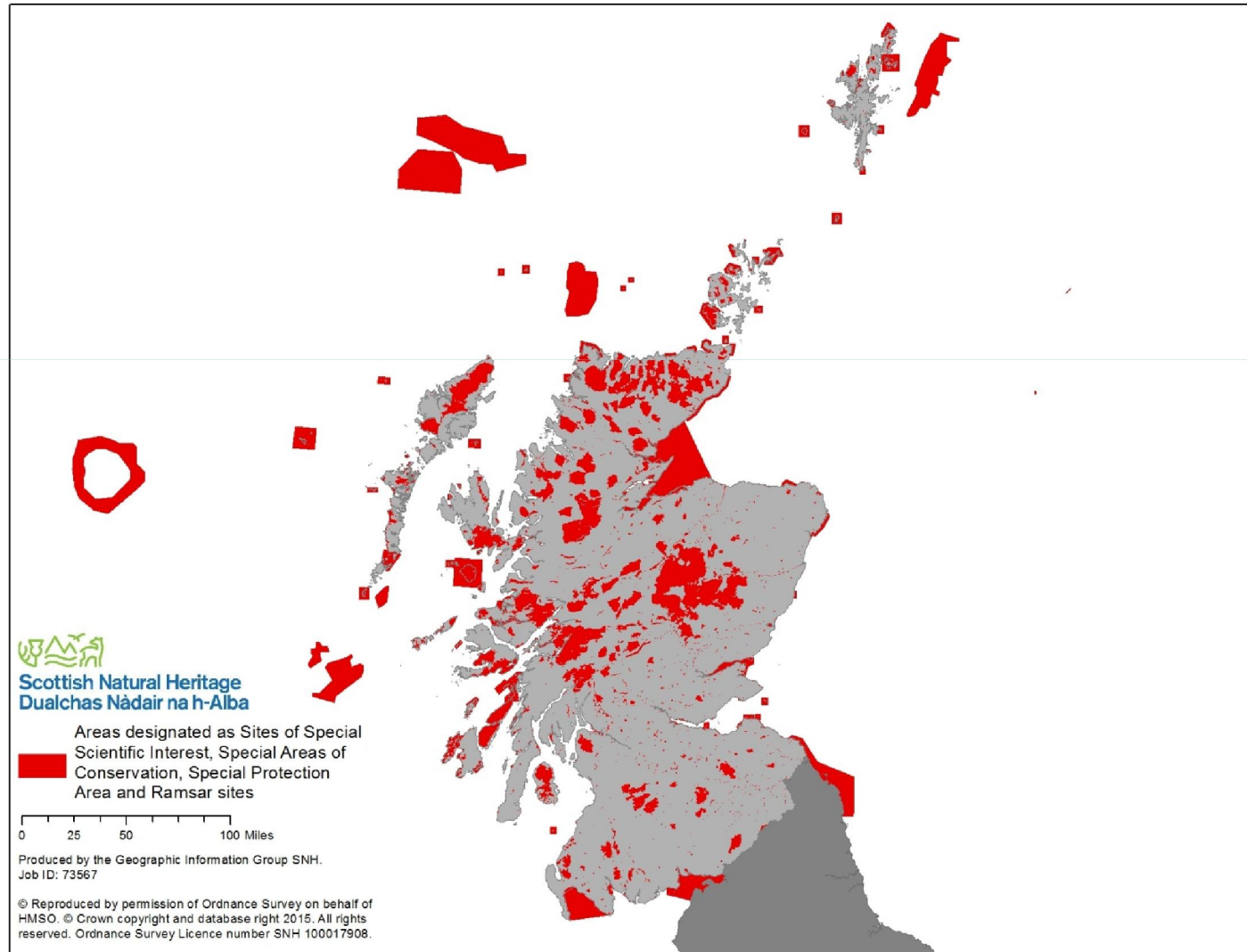
Enjoying Luskentyre beach, Harris © Z Russell



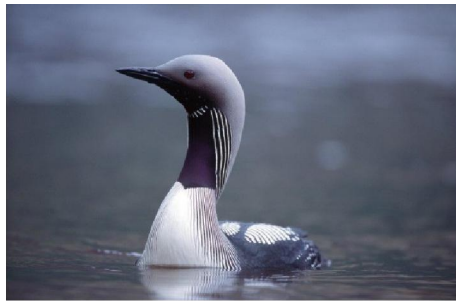
# Scottish Natural Heritage (SNH) in Scotland



# Protected Areas in Scotland



## Natural features



- *habitats*



- *species populations*

- *geological formations*



## Site Condition Monitoring

- rolling programme of monitoring
- determines the condition of natural features
- follows common standards throughout UK
- carried out by SNH staff and specialists
- condition is favourable or unfavourable
- pressures recorded
- Scottish Government target **'Improve the condition of protected nature sites'**



## The idea behind SWIFT

- Save time
  - Save money
  - Lots of equipment
  - Laborious data entry
  - Data stored on paper
- 
- All information on one device
  - Collect data with device
  - Automatic upload of data
  - Faster results, stored electronically



## Tablets and app

- Standard tablets
- Android
- Tested – fit for purpose
- Developed app
- Use Wi-Fi



© Z Russell

- Download data - in office
- Field visit - collect data
- Upload data collected - in office



# SWIFT

Surveillance Working In the Field Technology

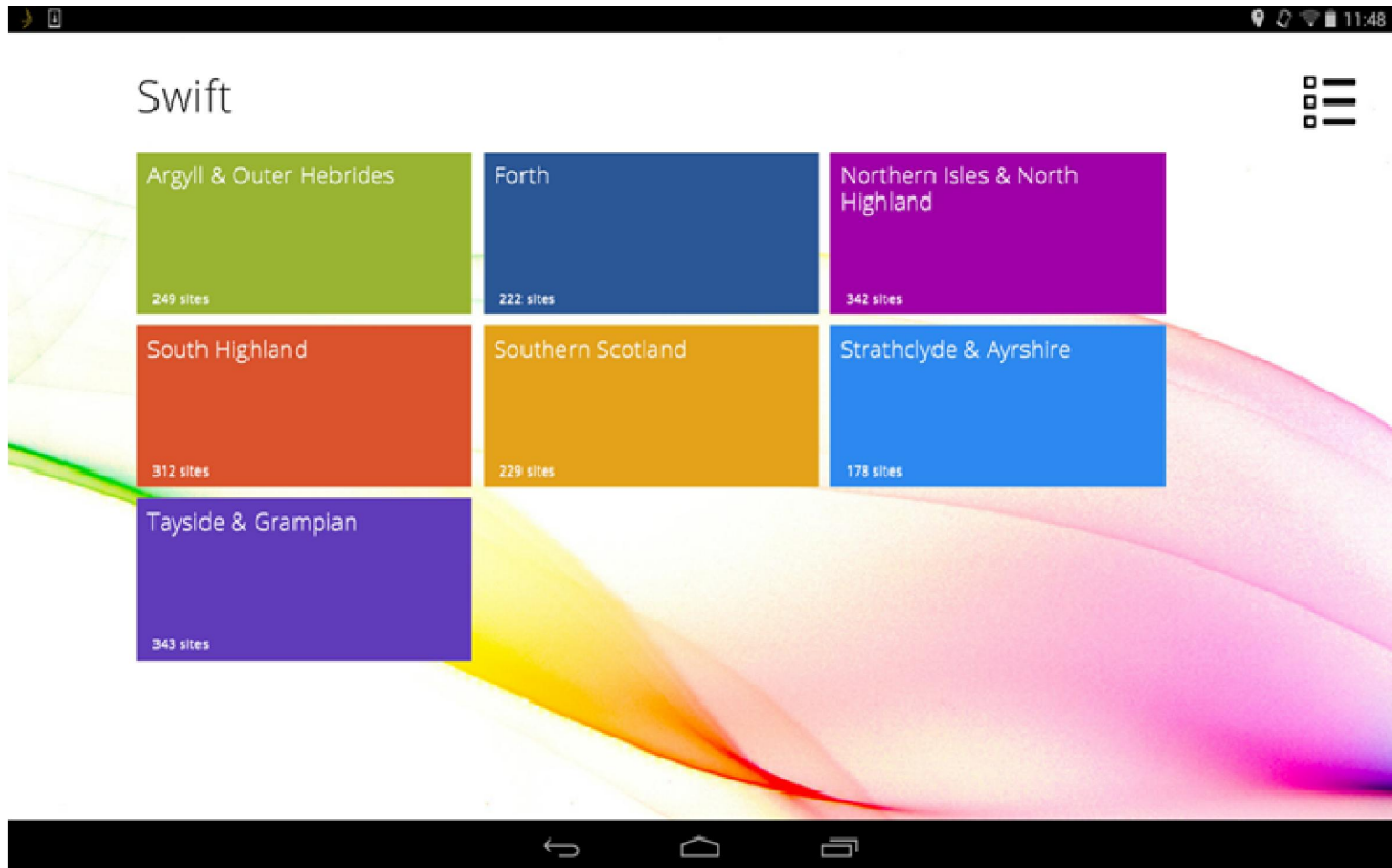




## The SWIFT app.....



# Home screen



# Region

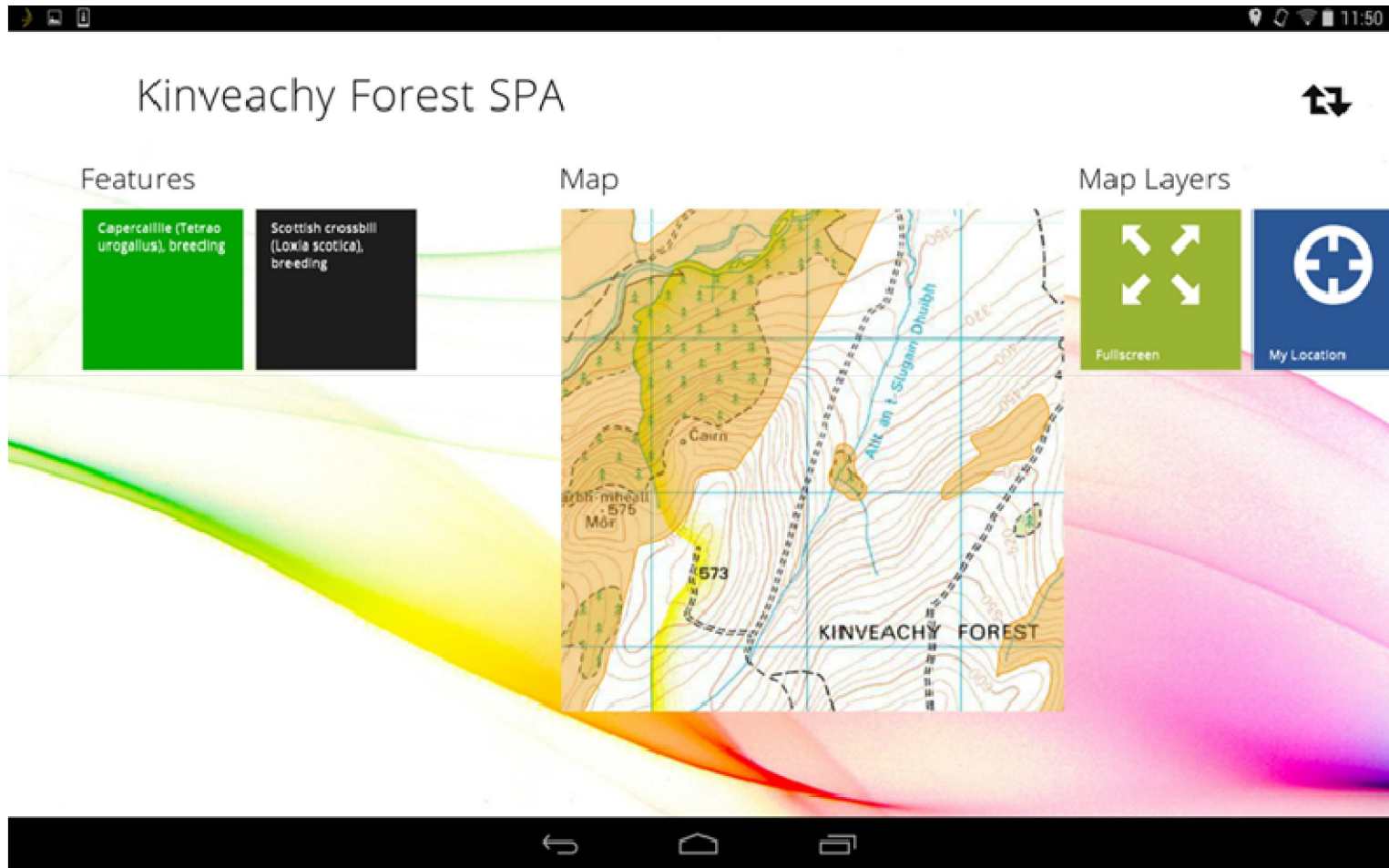


## South Highland

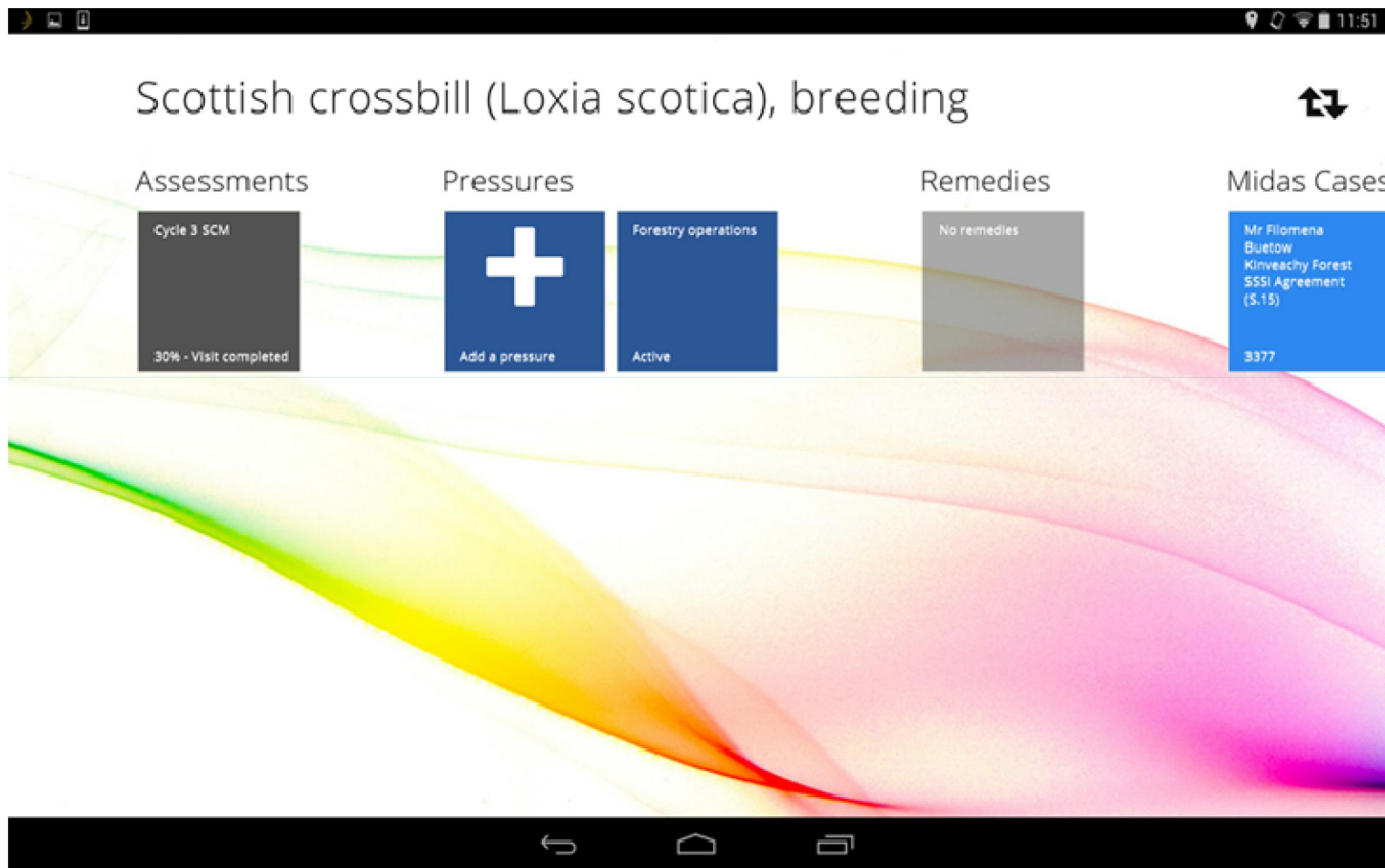
All	A-C	D-H	I-N	O-Z	All	SSSI	SPA	SAC	RAMSAR
Abernethy Forest SPA	Abernethy Forest SSSI	Abhainn Alligin SSSI	Ach an Todhair SSSI	Achanalt Marshes SPA	Achanalt Marshes SSSI	Achnahald SAC			
Achnahald SSSI	Achnasheen Terraces SSSI	Affric - Cannich Hills SSSI	Aird Thuirinns - Port na Long SSSI	Allt Cracalg Coast SSSI	Allt Geodh' a' Ghamhna SSSI	Allt Grillan Gorge SSSI			
Allt Mor SSSI	Allt a' Choire SSSI	Allt na Faltìe Shellach SSSI	Allt nan Caorach SSSI	Allt nan Carnan SSSI	Aliness River Valley SSSI	Alvie SSSI			
An Cleineach	An Teallach	Anagach Woods	Ard Hill	Ard Trilleachan	Ardersier Glacial Deposits	Ardgour Pinewoods			



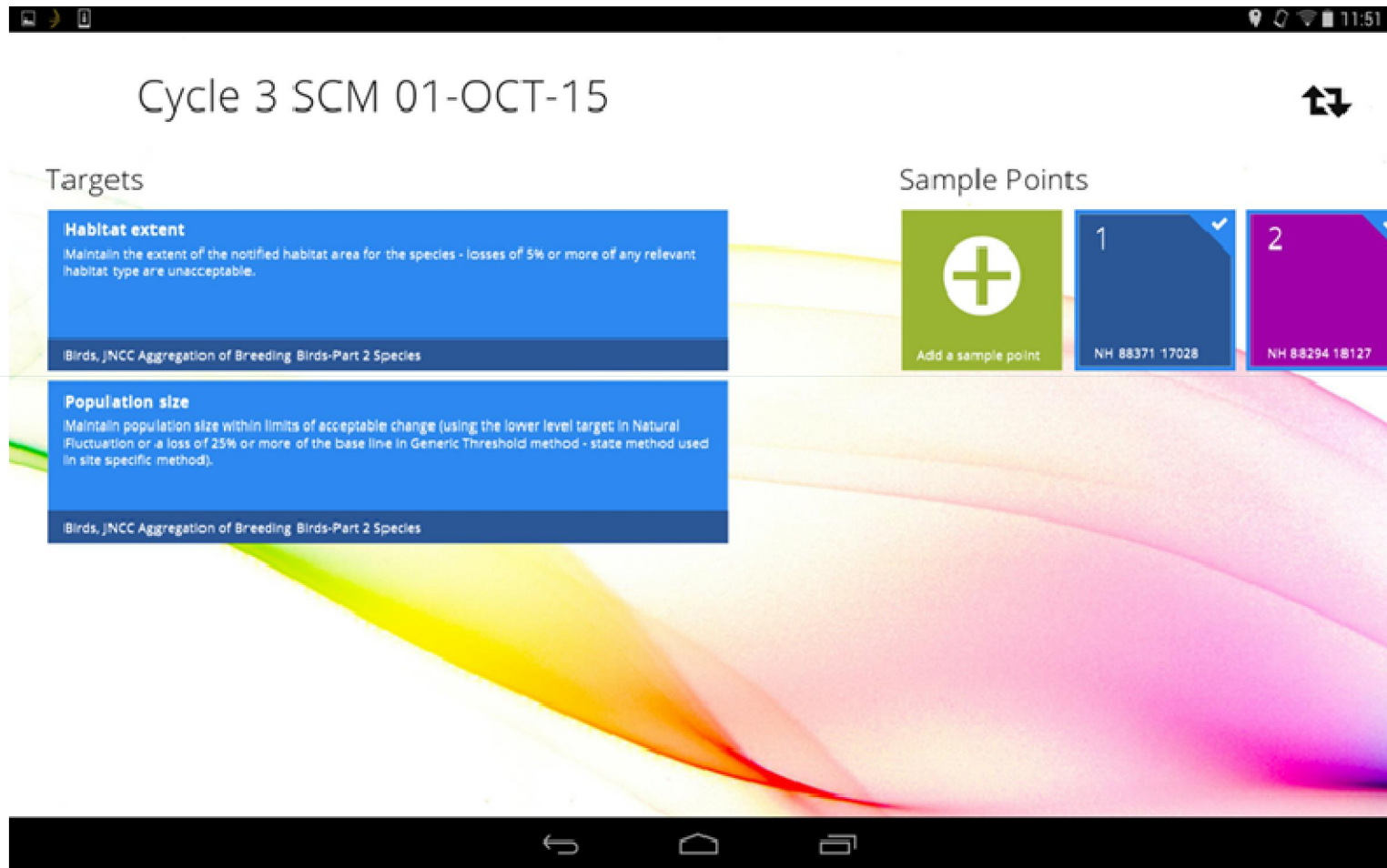
# Protected Area



# Natural feature



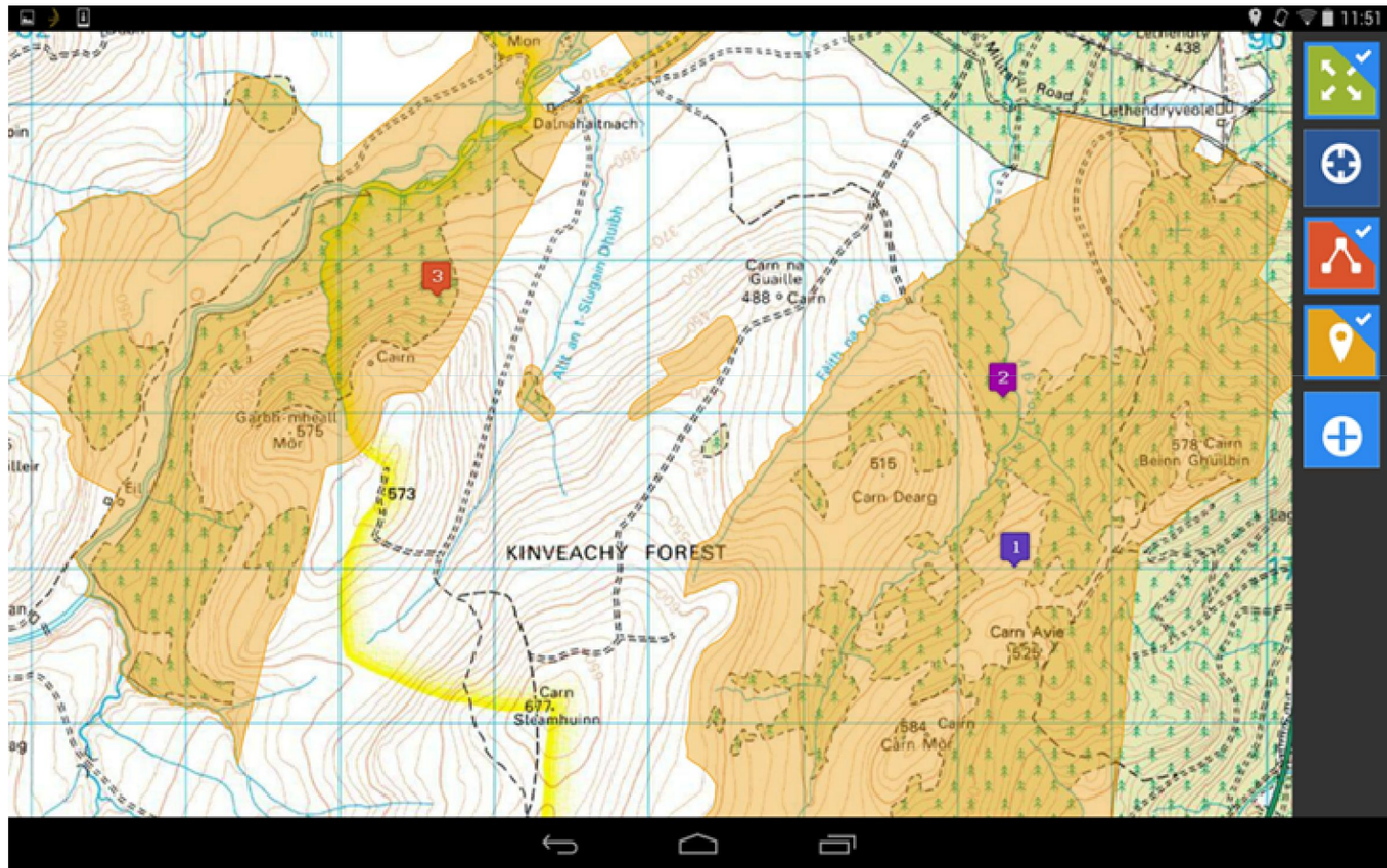
# Site Condition Monitoring assessment



# Sample point

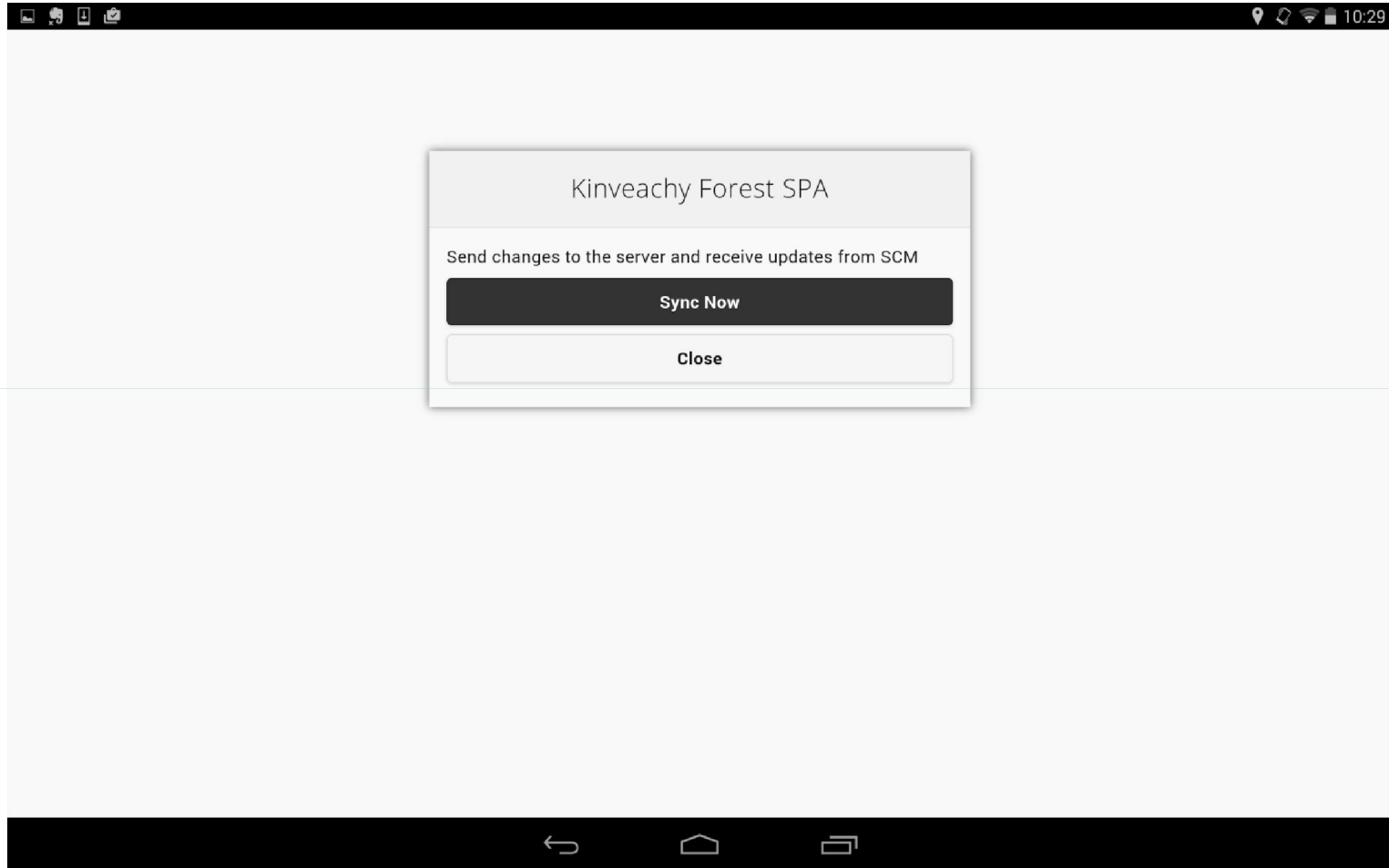


# Map





# Sync to upload data



# Data displayed in database

**Habitat extent**

Record details of the habitat extent

1	The habitat is good	NH8820617006
2	Lovely	NH8820918105
3		NH0454310900

There are many pine trees here. We counted 50 crossbills sitting at the tops of the trees.

KINVEACHY FOREST

Leaflet | © Crown Copyright and database right 2013

Target 1 of 2

Habitat extent



## The results.....

- 50 tablets in use
- 110 staff trained
- 210 assessments done
- Positive feedback
- GPS & photos
- Faster upload, faster results
- Saves time (and money)
- Other uses
- Benefit of Wi-Fi





**Thanks for listening**

