

McMurdo Sea Ice Routes 2014-15

McMurdo Station to Cape Royds

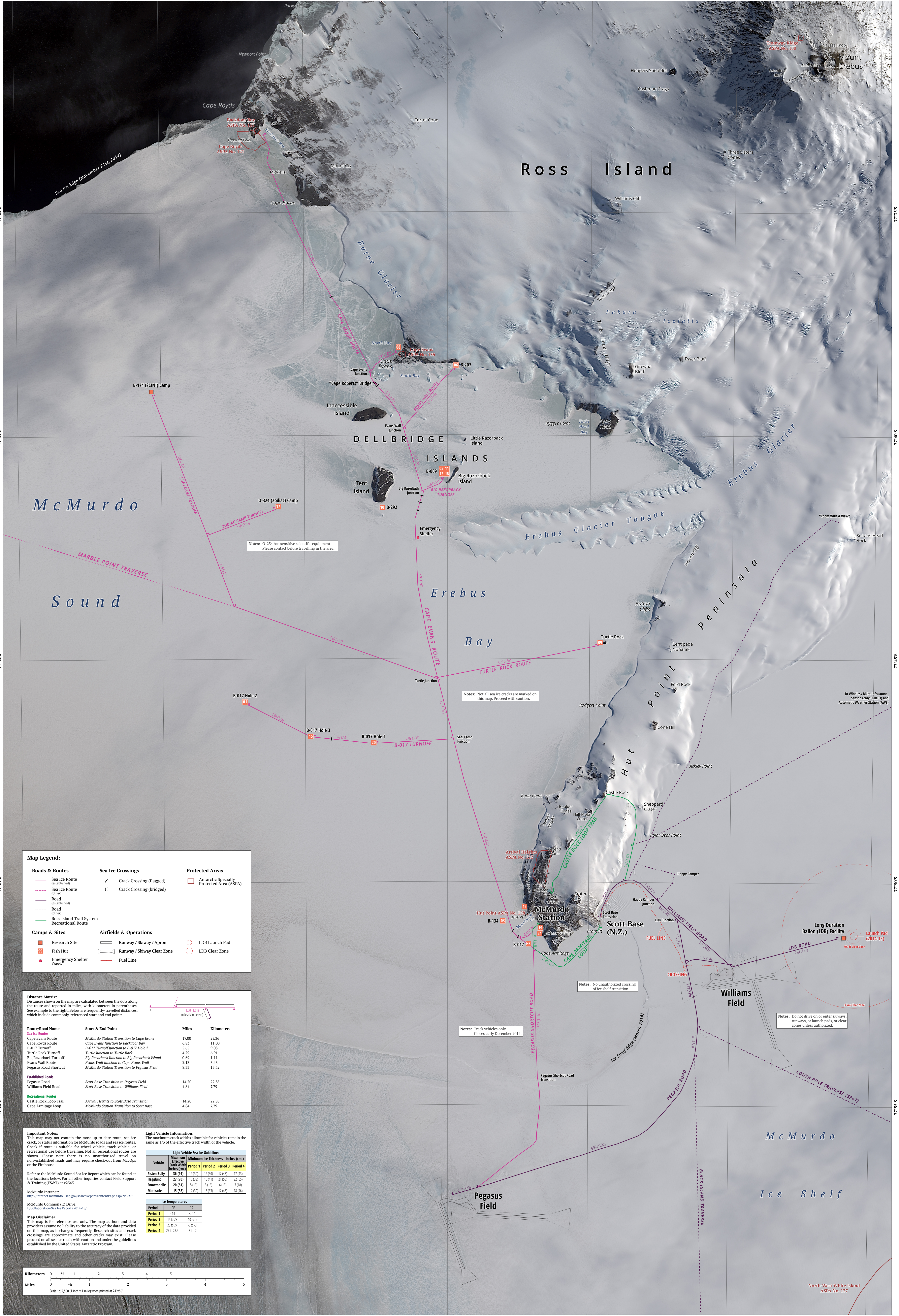


Map Information:
 Map by Brad Herried
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 November 2014
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Map Projection:
 Lambert Conformal Conic Projection
 Standard Parallels at 76°40'S and 79°60'S
 Central Meridian at 166°30'E
 WGS 1984 Datum

LATITUDE/LONGITUDE GRID
 Units in Degrees
 Parallels (latitude): 5' interval
 Meridians (longitude): 15' interval
 Lines of longitude indicate True North

Data Sources:
 15-meter pansharpened, true-color (bands 4-3-2) Landsat 8 OLI imagery from NASA/USGS
 Image date: November 21st, 2014
 Sea ice routes/roads and status, fish hut and research sites, and sea ice conditions from Ned Corkran (FS&T), Jeff Scanniello (USAP Surveyor), and William Ames (Fleet Operations)
 Antarctic Specially Protected Area boundaries provided by Colin Harris, Environmental Research and Assessment
 Placenames derived from SCAR Composite Gazetteer of Antarctica



Map Legend:

Roads & Routes	Sea Ice Crossings	Protected Areas
— Sea Ice Route (established)	— Crack Crossing (flagged)	□ Antarctic Specially Protected Area (ASPA)
--- Sea Ice Route (other)	— Crack Crossing (bridged)	
— Road (established)		
--- Road (other)		
— Ross Island Trail System (Recreational Route)		
Camps & Sites	Airfields & Operations	
■ Research Site	— Runway / Skiway / Apron	○ LDB Launch Pad
■ Fish Hut	— Runway / Skiway Clear Zone	○ LDB Clear Zone
● Emergency Shelter ('Apple')	— Fuel Line	

Distance Matrix:
 Distances shown on the map are calculated between the dots along the route and reported in miles, with kilometers in parentheses. See example to the right. Below are frequently-travelled distances, which include commonly-referenced start and end points.

Route/Road Name	Start & End Point	Miles	Kilometers
Sea Ice Routes			
Cape Evans Route	McMurdo Station Transition to Cape Evans	17.00	27.36
Cape Royds Route	Cape Evans Junction to Backdoor Bay	6.83	11.00
B-017 Turnoff	B-017 Turnoff Junction to B-017 Hole 2	5.65	9.08
Turtle Rock Turnoff	Turtle Junction to Turtle Rock	4.29	6.91
Big Razorback Turnoff	Big Razorback Junction to Big Razorback Island	0.69	1.11
Evans Wall Route	Evans Wall Junction to Cape Evans Wall	2.13	3.43
Pegasus Road Shortcut	McMurdo Station Transition to Pegasus Field	8.33	13.42
Established Roads			
Pegasus Road	Scott Base Transition to Pegasus Field	14.20	22.85
Williams Field Road	Scott Base Transition to Williams Field	4.84	7.79
Recreational Routes			
Castle Rock Loop Trail	Arrival Heights to Scott Base Transition	14.20	22.85
Cape Armitage Loop	McMurdo Station Transition to Scott Base	4.84	7.79

Important Notes:
 This map may not contain the most up-to-date route, sea ice crack, or status information for McMurdo roads and sea ice routes. Check if route is suitable for wheel vehicle, track vehicle, or recreational use before travelling. Not all recreational routes are shown. Please note there is no unauthorized travel on non-established roads and may require check-out from MacOps or the Firehouse.

Refer to the McMurdo Sound Sea Ice Report which can be found at the locations below. For all other inquiries contact Field Support & Training (FS&T) at x2345.

McMurdo Intranet:
<http://intranet.mcmurdo.usap.gov/seaice/report/content/pegs.asp?td=275>

McMurdo Common (C) Drive:
 C:\Collaboration\Sea Ice Reports 2014-15\

Map Disclaimer:
 This map is for reference use only. The map authors and data providers assume no liability to the accuracy of the data provided on this map, as it changes frequently. Research sites and track crossings are approximate and other cracks may exist. Please proceed on all sea ice roads with caution and under the guidelines established by the United States Antarctic Program.

Light Vehicle Sea Ice Guidelines

Vehicle	Maximum Effective Crust Width (inches (cm))	Period 1	Period 2	Period 3	Period 4
Pisten Bully	34 (87)	11,030	12,500	17,400	17,400
Hoglander	27 (70)	15,280	16,441	21,030	22,020
Snowmobile	20 (51)	5 (13)	5 (13)	6 (15)	7 (18)
Mattracks	15 (38)	12 (30)	13 (33)	17 (43)	18 (46)

Ice Temperatures

Period	°F	°C
Period 1	<14	<-10
Period 2	14 to 23	-10 to -5
Period 3	23 to 27	-5 to -3
Period 4	27 to 35	-3 to 2

