Polar Cyberinfrastructure Research Coordination Network Cyber+Imagery Workshop

June 2 – 3, 2016
St. Paul, MN

More info at:
http://polar-computing.org

Welcome! Thank you for attending the Polar Cyberinfrastructure RCN's cyber+imagery workshop. This document is meant to provide information about your trip to the University of Minnesota and the cities of Minneapolis and St. Paul. Details about agenda, local resources, transportation, and contact information are provided here for your reference.

Dr. Heather Lynch, Stony Brook University
Dr. Shantenu Jha, Rutgers University

Many thanks to the Polar Geospatial Center for hosting the meeting and assistance in planning, particularly **Lucas Winzenburg**, **Jonathan Pundsack**, and **Paul Morin.**

Table of Contents

Why are we here?

The importance of remote sensing, particularly high-resolution commercial satellite imagery, has grown rapidly over the last few years within the polar science community. At the same time, the proliferation of imagery data presents some new challenges for cyberinfrastructure, including issues with software, hardware, networking, storage, metadata standards, access, data products, and distribution. The goal of this workshop is to bring together polar scientists and high-performance and distributed computing experts in a 'horizon scan' style discussion to identify the most critical bottlenecks (current or near-term) for the effective use of polar imagery across the polar science community. We will attempt to provide community consensus and classify these bottlenecks based upon primary technical challenges, as short-term versus long-term. We will select those that can be effectively addressed as a community in the 2-3 year window, identify whatever tools, standards, hardware/software, and other aspects of cyberinfrstructure are required to overcome these challenges and outline a plan to do so. We will set about in a "write-athon" to draft a proposal to fund the development required. By the end of the workshop, we intend to have the essential components of a proposal in hand based on community consensus that, if funded, would make significant improvements to the use of remote sensing imagery for polar science.

Contact Information and Addresses

Phone Numbers

Heather Lynch Cell: (301) 974-2993
Middlebrook Dormitory: (612) 625-5376
University of Minnesota Police (non-emergency): (612) 624-2677
Campus Security Escort: (612) 624-9255
MetroTransit: (612) 373-3333

Addresses

Cargill Building
1475 Gortner Ave
Room 105
St. Paul, MN 55108
(In the middle of the St. Paul map)

Middlebrook Hall (Dormitory)
412 22nd Ave S
Minneapolis, MN 55455
(See lower right corner of West Bank map)

*The 121 Campus Connector runs every 5 minutes and will take us from West Bank to St. Paul

NORTHSTAR
COMMUTER LINE
TO BIG LAKE

METRO Green Line *(Light Rail)*
METRO Blue Line *(Light Rail)*
METRO Red Line *(Bus Rapid Transit)*
Shared station
Northstar Commuter Rail Line
Park & Ride Lot
22 Connecting Routes

Target Field

Warehouse/Hennepin Ave
Nicollet Mall
Government Plaza
U.S. Bank Stadium

DOWNTOWN
MINNEAPOLIS

5th St

Washington Ave

GREEN LINE
TO ST. PAUL ▶

Cedar-Riverside

Franklin

Franklin Ave
2 8 9 22

Hiawatha Ave

Lake St

Lake St/Midtown
21 27 53

38th St

38th St
14 22 23

MINNEAPOLIS

42nd St

46th St

46th St
Metro Transit Routes: MVTA Routes:
7 9 46 74 84   436 446

Cedar Ave

50th St

50th St/Minnehaha Park
■ Veterans Home

54th St

Veterans
Medical
Center ■

VA Medical Center
22 440 515

No fare is required between
Terminal 1-Lindbergh and
Terminal 2-Humphrey stations.
Service operates 24-hours a day
between the airport stations.

Minneapolis/St. Paul
International Airport
✈

Fort Snelling

■ Historic
Fort Snelling

55

**Terminal 1 –
Lindbergh**
54

Airport

5

**Terminal 2 –
Humphrey**

70th St

Post Rd

34th Ave

494

American Blvd

BLOOMINGTON

77

Mall of America
Blue Line Red Line
Metro Transit Routes:
5 54 415 515
538 539 540 542

Bloomington Central

28th Ave
Metro Transit Routes:
54 538 539
MVTA Route:

RED LINE TO
APPLE VALLEY
▽

MARCY-HOLMES

Major Access Routes

ST. PAUL CAMPUS

DOWNTOWN MINNEAPOLIS

MINNEAPOLIS CAMPUS

METRO Green Line

METRO Blue Line

Parking and Transportation Services
UNIVERSITY OF MINNESOTA

300 Transportation and Safety Building
511 Washington Avenue SE
Minneapolis, MN 55455
Phone 612-626-7275 | Fax 612-624-8899
www.umn.edu/pts | pts@umn.edu

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Saturday–Sunday (Fall/Spring/Finals)

| am | | | | pm | | | | | | | | | am | |
|9|10|11|12|1|2|3|4|5|6|7|8|9|10|11|12|1|2|

Every 20 min — Saturday 9:30 / Sunday 12:15
Campus Connector – 121

Every 15 min — Saturday 9:30 / Sunday 12:15
University Ave. Circulator – 122

West Bank Office Bldg. Ramp (top level of ramp is C98)

35W

West Bank Office Building

Intersession/Breaks/Summer Session

| am | | | | | pm | | | | | | | | |
|7|8|9|10|11|12|1|2|3|4|5|6|7|8|9|10|

Every 15 min (Monday–Friday) — Intersession/Breaks 6:30 / Summer 9:30
Campus Connector – 121

Every 15 min (Monday–Friday) — Intersession/Breaks 6:30 / Summer 9:30
University Ave. Circ. – 122

Find real-time bus tracking at z.umn.edu/nextbus

Rec. Sports Softball Fields

West River Parkway

Heating Plant

Education Sciences Building

Child Devel.

Pattee Hall

Sanford Hall

Wilkins Hall

SEVEN CORNERS

Mondale Hall

Andersen Library

Willey Hall

Washington Avenue Bridge

METRO Green Line

Mississippi River

West Bank Station

Washington Ave. S

To Downtown (becomes 3rd St./From Downtown (4th St.)

(2-way traffic)

Blegen Hall
Social Sciences
Anderson Hall

Humphrey Ctr.
Heller Hall

Carlson School of Management

Wilson Library

Rarig Center

Ferguson Hall

Ted Mann Concert Hall

West River Parkway

19th Ave. Ramp

Hanson Hall

21st Ave. Ramp

Regis Center for Art (East)

Regis Center for Art (West)

Middlebrook Hall

Hospital Parking Ramp

CEDAR-RIVERSIDE

Barbara Barker Dance Center

West Bank Housing

University of Minnesota Medical Center-West Bank
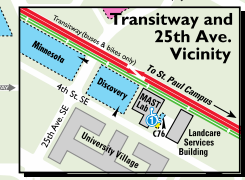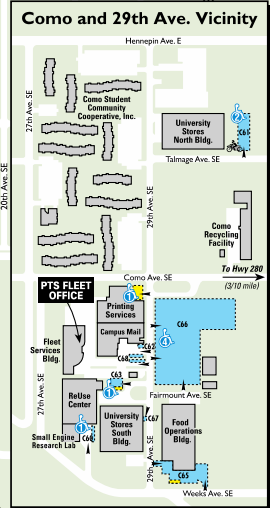
Cedar-Riverside Station

METRO Blue Line

UNIVERSITY OF MINNESOTA
MINNEAPOLIS WEST BANK

- Visitor/public parking, hourly rates
- Visitor/public parking, daily rates
- U of M meter parking
- Contract parking
- Facility entrance and/or exit
- Disability parking area-3 hours free (number indicates capacity)
- Disability parking area-posted rates apply (number indicates capacity)
- Electric vehicle charging station
- Motorcycle contract parking area

Campus Shuttle System Routes
- Campus Connector
- University Avenue Circulator
- 4th Street Circulator
- Bus stop (color indicates route)

Monday–Friday (Fall/Spring/Finals)

| am | | | | pm | | | | | | | | | am | |
|7|8|9|10|11|12|1|2|3|4|5|6|7|8|9|10|11|12|1|2|

8:30 *Every 5 min* 5:30 *Every 15 min* 10 — 12:15 (Mon–Wed) / 20 min (Thurs–Fri)
10 min
Campus Connector – 121

Every 10 min — *Every 15 min* — 12:15 (Mon–Wed) / 15 min (Thurs–Fri)
University Ave. Circulator – 122

Every 10 min 6:30 — No service
4th Street Circulator – 123

UNIVERSITY OF MINNESOTA
MINNEAPOLIS EAST BANK

Legend
- Visitor/public parking, hourly rates
- Visitor/public parking, daily rates
- U of M meter parking
- Carpool parking until 9 am
- Contract parking
- Facility entrance and/or exit
- Disability parking area-3 hours free (number indicates capacity)
- Disability parking area-posted rates apply (number indicates capacity)
- Electric vehicle charging station
- Motorcycle contract parking area
- PTS self-service information

Campus Shuttle System Routes
- Stadium Superblock Circulator
- Campus Connector
- University Avenue Circulator
- 4th Street Circulator
- Bus stop (color indicates route)

For the most current map or additional information, visit www.umn.edu/pts

Saturday–Sunday (Fall/Spring/Finals)

	9	am 10	11	12	1	2	3	4	5	pm 6	7	8	9	10	11	12	am 1	2

Campus Connector–121 — Every 20 min — 9:30 Saturday / Sunday 12:15

University Ave. Circulator–122 — Every 15 min — 9:30 Saturday / Sunday 12:15

Intersession/Breaks/Summer Session

	7	8	am 9	10	11	12	1	2	3	4	5	pm 6	7	8	9	10

Campus Connector–121 — Every 15 min (Monday–Friday) — Intersession/Breaks 6:30 / Summer 9:30

University Ave. Circ.–122 — Every 15 min (Monday–Friday) — Intersession/Breaks 6:30 / Summer 9:30

Stadium Superblock Circulator–120 — Every 15 min — 5:30 — No service

Find real-time bus tracking at z.umn.edu/nextbus

Monday–Friday (Fall/Spring/Finals)

	7	8	am 9	10	11	12	1	2	3	4	5	pm 6	7	8	9	10	11	12	am 1	2

Campus Connector–121 — 10 min — Every 5 min — 5:30 — Every 15 min — 10 / 12:15 (Mon–Wed) / 20 min (Thurs–Fri)

University Ave. Circulator–122 — Every 10 min — Every 15 min — 12:15 (Mon–Wed) (Thurs–Fri)

4th Street Circulator–123 — Every 10 min — 6:30 — No service

Stadium Superblock Circulator–120 — Every 15 min — 5:30 — No service

Como and 29th Ave. Vicinity

Como Student Community Cooperative, Inc.
University Stores North Bldg.
Como Recycling Facility
To Hwy 280 (3/10 mile)
PTS FLEET OFFICE
Printing Services
Fleet Services Bldg.
Campus Mail
ReUse Center
Small Engine Research Lab
University Stores South Bldg.
Food Operations Bldg.
C57, C66, C64, C63, C67, C65

Cartography by CartoGraphics Incorporated

Washington Ave. Mall, between Pleasant St. and Walnut St., is for Buses and Emergency Vehicles Only.

COMO
DINKYTOWN
STADIUM VILLAGE
PROSPECT PARK
Mississippi River
River Flats

Como Ave. SE
Brook Ave. SE
Fairmount Ave. SE
Elm St. SE
Rollins Ave. SE
Talmage Ave. SE
Weeks Ave. SE
Hennepin Ave. E

Football Practice Fields
Gibson Nagurski Football Practice Facility
Siebert Baseball Stadium
Bierman Track and Field Stadium
Bierman Field
Aldrich Bldg.
Student Rec. Sports Dome
Cowles Stadium
Rec. Sports Softball Fields
Bierman Rec. Fields Clubhouse
Child Care Center

PTS MAINTENANCE OFFICE
Lions Research Building
McGuire Translational Research Facility
Center for Magnetic Resonance Research
Wallin Medical Biosciences Bldg.
Microbiology Research Facility
Cancer & Cardiovascular Research Bldg.
Ridder Arena & Baseline Tennis Center
Mariucci Arena
TCF Bank Stadium
Maroon
Gold
Ski-U-Mah
Thompson Center for Environmental Mgmt.
Gopher
Victory

Transitway and 25th Ave. Vicinity
Minnesota
Discovery
MAST Lab
Landcare Services Building
University Village

Herling Plant
Education Sciences Building
Child Devel.
Shevlin Hall
Potter Hall
Peik Hall
Stadler Hall
Wilkins Hall
Donhowe Bldg.
4th St. Bldg.
4th St. Ramp
Tennis Center
1425 Univ. Ave. SE
Folwell Hall
Bell Museum
Williamson Hall
Scott Hall
Nolte Ctr.
Nicholson Hall
Pillsbury Hall
7th Avenue Residence Hall
Armory
YMCA
Sports Pavilion
Williams Arena
1901 Univ. Ave. SE

Burton Hall
Eddy Hall
Elliott Hall
Wulling Hall
Northrop Auditorium
Church St. Garage
Johnston Hall
Northrop Garage
Morrill Hall
Rapson Hall
Shepherd Labs
Civil Eng.
Mechanical Eng.
Tate Lab (under const.)
M.E.
Keller Hall
Physics & Nanotechnology
Recreation & Wellness Center
Aquatic Center
McNamara Alumni Center
Field House

Fraser Hall
Walter Digital Technology Center
SCHOLARS WALK
Smith Hall
Vincent Hall
Murphy Hall
Lind Hall
Appleby Hall
Bruininks Hall
Kolthoff Hall
Ford Hall
Amundson Hall
Washington Ave. Parking Ramp
Transportation & Safety Bldg.
East Bank Station
Commons Hotel
Fire Station No. 19
Information Tech. Bldg.
Beacon St. SE
Stadium Village Station
Univ. Office Plaza Bldg.

METRO Green Line
Washington Ave. Bridge
Weaver-Densford Hall
PTS OFFICE
Hospital Patient/Visitor Ramp
PTS BIKE CENTER
717 Delaware/Garage
925 Delaware St.
Dinnaken House
Argyle House
METRO Green Line

Coffman Memorial Union
Comstock Hall
East River Road Garage
Yudof Hall
Hasseltine Hall
Molecular & Cellular Biology
Moos Tower
Mayo Auditorium
Phillips-Wangensteen Bldg.
VFW Cancer Res. Ctr.
Children's Rehab
Variety Club Res. Ctr.
Dwan Cardio./Masonic Cancer Research Bldg.
University of Minnesota Medical Center
Diehl Hall
Masonic Memorial Bldg.
Centennial Hall
Territorial Hall
Pioneer Hall
Frontier Hall
Oak Street Ramp
Clinics and Surgery Center (under const.)
C73

Ted Mann Concert Hall
Middlebrook Hall
Hospital Parking Ramp
Boathouse
Ronald McDonald House

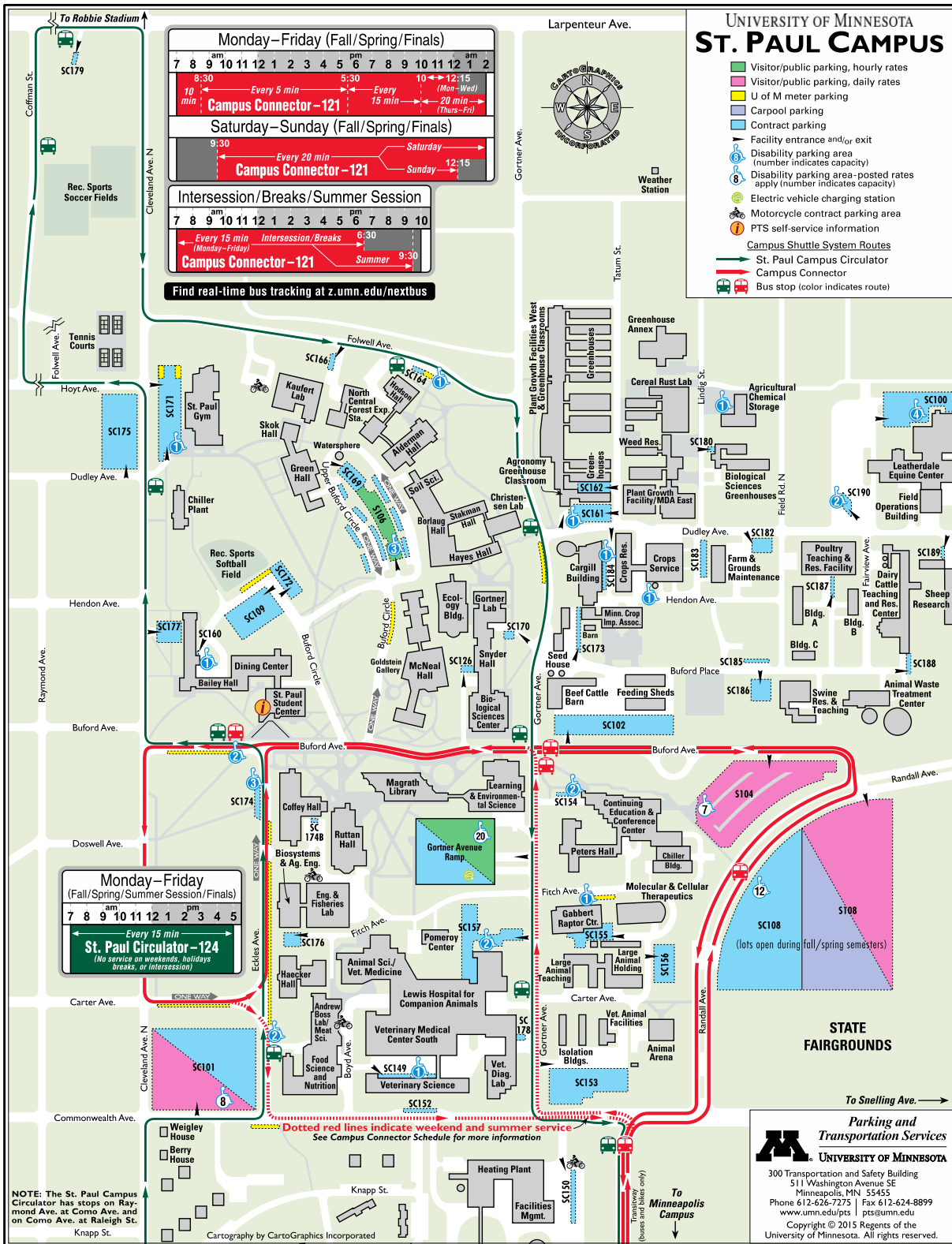**DOTTED line indicates extended route for weeknight and weekend service**
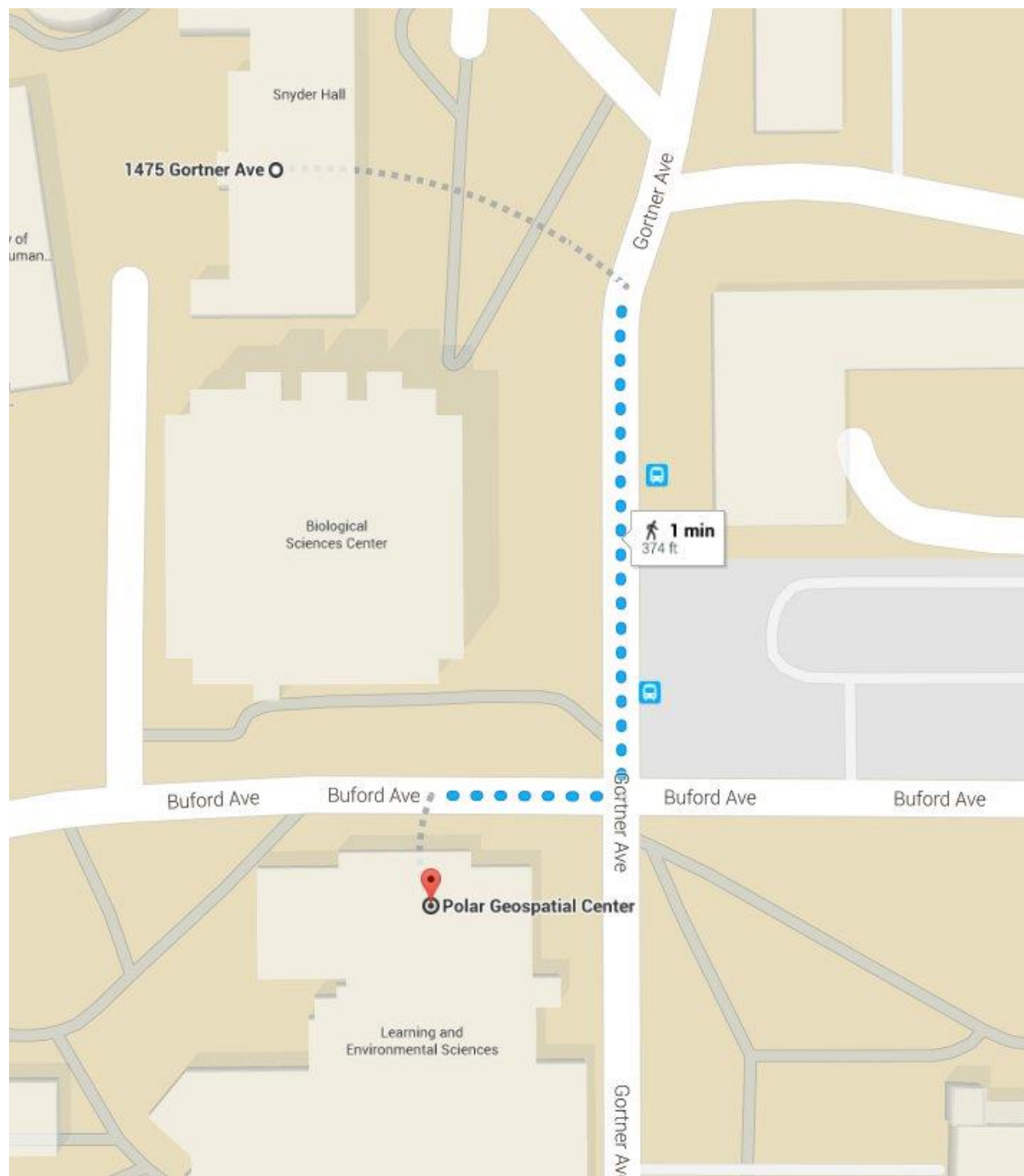
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I-94 — To Mpls. — To St. Paul

UNIVERSITY OF MINNESOTA
ST. PAUL CAMPUS

Visitor/public parking, hourly rates
Visitor/public parking, daily rates
U of M meter parking
Carpool parking
Contract parking
Facility entrance and/or exit
Disability parking area (number indicates capacity)
Disability parking area–posted rates apply (number indicates capacity)
Electric vehicle charging station
Motorcycle contract parking area
PTS self-service information

Campus Shuttle System Routes
St. Paul Campus Circulator
Campus Connector
Bus stop (color indicates route)

Monday–Friday (Fall/Spring/Finals)
7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2
am | pm
8:30 | 5:30 | Every 15 min | 10 | 12:15 (Mon–Wed)
10 min | Every 5 min | Campus Connector–121 | Every 20 min (Thurs–Fri)

Saturday–Sunday (Fall/Spring/Finals)
9:30 | Every 20 min | Saturday | 12:15
Campus Connector–121 | Sunday

Intersession/Breaks/Summer Session
7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10
am | pm
Every 15 min (Monday–Friday) | Intersession/Breaks | 6:30
Campus Connector–121 | Summer | 9:30

Find real-time bus tracking at z.umn.edu/nextbus

Monday–Friday
(Fall/Spring/Summer Session/Finals)
7 8 9 10 11 12 1 2 3 4 5
am | pm
Every 15 min
St. Paul Circulator–124
(No service on weekends, holidays breaks, or intersession)

To Robbie Stadium
SC179
Coffman St.
Cleveland Ave. N
Rec. Sports Soccer Fields
Tennis Courts
Folwell Ave. N
Hoyt Ave.
SC171
SC175
St. Paul Gym
Dudley Ave.
Chiller Plant
Hendon Ave.
Rec. Sports Softball Field
SC172
SC109
SC177
SC160
Dining Center
Bailey Hall
SC126
Buford Ave.
Raymond Ave.
Kaufert Lab
North Central Forest Exp. Sta.
Hodson Hall
Skok Hall
Green Hall
Watersphere
SC169
Alderman Hall
Soil Sci.
Borlaug Hall
Stakman Hall
Hayes Hall
SC106
Christen-sen Lab
Agronomy Greenhouse Classroom
Ecol-ogy Bldg.
Gortner Lab
Snyder Hall
McNeal Hall
Goldstein Gallery
Biological Sciences Center
Buford Circle
St. Paul Student Center
SC174
Coffey Hall
SC 174B
Biosystems & Ag. Eng.
Ruttan Hall
Magrath Library
Learning & Environmental Science
Gortner Avenue Ramp 20
Eng. & Fisheries Lab
Eckles Ave.
SC176
Fitch Ave.
Haecker Hall
Andrew Boss Lab/Meat Sci.
Food Science and Nutrition
Animal Sci./Vet. Medicine
Pomeroy Center
SC157
Lewis Hospital for Companion Animals
Veterinary Medical Center South
SC149
Veterinary Science
SC 178
Vet. Diag. Lab
Boyd Ave.
Carter Ave.
SC101
Commonwealth Ave.
SC152
Weigley House
Berry House
Knapp St.
Heating Plant
Facilities Mgmt.
SC150
Cartography by CartoGraphics Incorporated

Gortner Ave.
Tatum St.
Weather Station
Folwell Ave.
SC166
SC164
Plant Growth Facilities West & Greenhouse Classrooms
Greenhouses
Greenhouse Annex
Cereal Rust Lab
Lindig St.
Agricultural Chemical Storage
SC100
SC180
Weed Res.
Green-houses
SC162
Plant Growth Facility/MDA East
SC161
Biological Sciences Greenhouses
Field Rd. N
Leatherdale Equine Center
Field Operations Building
SC190
Dudley Ave.
Cargill Building
SC184
Crops Res.
Crops Service
SC183
SC182
Farm & Grounds Maintenance
Hendon Ave.
Minn. Crop Imp. Assoc.
Barn
SC173
Seed House
Beef Cattle Barn
Feeding Sheds
SC185
SC186
Buford Place
SC102
Buford Ave.
SC104
Randall Ave.
SC154
Continuing Education & Conference Center
Peters Hall
Chiller Bldg.
Molecular & Cellular Therapeutics
Fitch Ave.
Gabbert Raptor Ctr.
SC155
SC156
Large Animal Teaching
Large Animal Holding
Carter Ave.
Vet. Animal Facilities
Isolation Bldgs.
Animal Arena
SC153
Gortner Ave.
Randall Ave.
SC108
(lots open during fall/spring semesters)
12
7
Poultry Teaching & Res. Facility
SC187
Bldg. A
Dairy Cattle Teaching and Res. Center
SC189
Bldg. B
Sheep Research
Bldg. C
SC188
Animal Waste Treatment Center
Swine Res. & Teaching
Fairview Ave.

STATE FAIRGROUNDS

To Snelling Ave.

Transitway (buses and bikes only)
To Minneapolis Campus

Dotted red lines indicate weekend and summer service
See Campus Connector Schedule for more information

NOTE: The St. Paul Campus Circulator has stops on Raymond Ave. at Como Ave. and on Como Ave. at Raleigh St.

Parking and Transportation Services
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300 Transportation and Safety Building
511 Washington Avenue SE
Minneapolis, MN 55455
Phone 612-626-7275 | Fax 612-624-8899
www.umn.edu/pts | pts@umn.edu

Snyder Hall

1475 Gortner Ave ⊙

r of
uman...

Gortner Ave

Biological
Sciences Center

🚌

🚶 **1 min**
374 ft

🚌

Buford Ave   Buford Ave ● ● ● ● ● ● ●   Buford Ave   Buford Ave

Gortner Ave

📍
⊙ Polar Geospatial Center

Learning and
Environmental Sciences

Gortner Av

Workshop Location
The workshop will be held in Cargill 105.

Accommodation Details

Dormitory
The workshop dormitory, Middlebrook Hall (https://www.housing.umn.edu/halls/middlebrook), is located on the West Bank of the University of Minnesota at 412 22nd Ave S, Minneapolis, MN 55455. You can reach the dormitory staff by email at middlebrook.hall@umn.edu or by phone at (612) 625-5376. Check-in time is 1:00 pm, check-out time is 12:00 pm. Bed linens are changed weekly and towels can be exchanged daily. Rooms are air conditioned and free wifi is available.

Transportation and Parking

The Minneapolis-St. Paul International Airport (MSP) is located roughly 12 miles from the University of Minnesota campus. You can reach campus easily by train or taxi.

Train
The METRO Blue Line (http://www.metrotransit.org/metro-blue-line) runs every 15 minutes from MSP to the University area. The easiest way to get to UMN from the airport is to take the Blue Line to the Downtown East stop, then transfer to the Green Line (direction Union Depot) to the West Bank Stop. The fare is $1.75 during non-rush hours and $2.25 during rush hours. You can purchase tickets at a kiosk with cash or credit card. Note that the trains run less frequently early in the morning and late at night.

Taxi
Taxi services are available at both airport terminals.

Terminal 1 – Lindbergh:
Taxi service at Terminal 1 – Lindbergh is accessible via the Tram Level (level T). Signs direct passengers one level up to the taxi starter booth, where airport staff will assist passengers in getting a taxi.

Terminal 2 – Humphrey
Taxi service at Terminal 2 – Humphrey is available at the Ground Transport Center, located on the ground level of the Purple parking ramp directly across from the terminal building.

Fares:

The University of Minnesota is approximately 12 miles from the airport, with fares averaging $35-$45. All taxi fares are metered at a rate of up to $2.50 per mile and include a $4.00 airport access fee that is added to the final metered fare.

Contact:
Airport Taxi Service: (612) 721-0000
Blue and White Taxi: (612) 333-3333

For more information, visit:
http://www.mspairport.com/GroundTransportation/taxicabs.aspx

Parking on Campus
The University of Minnesota offers several parking options on campus. Three main categories of parking include public, contract, and specialty programs. Public parking is available to anyone at any time. Contract parking involves a commitment with a guaranteed parking space. Specialty programs include groups such as disability, vendors or construction staging requests.

Please visit the University of Minnesota Parking & Transportation Services website for more detailed information on parking lots and rates:
http://www1.umn.edu/pts/park/index.html

Getting Around Campus

Bus
Free shuttle buses, the Campus Circulator and Campus Connector (http://www1.umn.edu/pts/bus/index.html), travel around the Minneapolis campus and between the St. Paul and Minneapolis campuses, respectively. Any travel after 2:00 am will require the use of public transportation or taxi service.

Bike
Passes for Nice Ride, the bicycle-sharing system in the Twin Cities, can be purchased at any of the Nice Ride kiosks around campus. The cost is $6 for a 24-hour pass or $15 for a 30-day pass, plus usage fees for individual trips over 30 minutes. West Bank kiosks are located at Blegen Hall and the Carlson School of Management. Find out more about Nice Ride on their website at https://www.niceridemn.org/.

Walk

Without a doubt, walking is the most economical way to access the Twin Cities campus. The University offers an aesthetically pleasing atmosphere with plenty of foliage and green plazas in different areas of campus. During snowy or rainy days, visitors can walk between most University buildings in the comfort of tunnels and skyways – the Gopher Way. You can find more campus walking resources here: http://www1.umn.edu/pts/walk/index.html.

Eating and Drinking on the West Bank

Restaurants
Afro Deli & Coffee – 1939 S 5th St
Chipotle – 229 Cedar Ave South
Jimmy John's – 2037 Riverside Ave
Quiznos – 1851 Washington Ave S
Republic – 221 Cedar Ave
Subway (Blegen Hall) – 269 19th Ave S
Town Hall Brewery – 1430 S Washington Ave
West Bank Diner – 324 Cedar Ave S

Bars
Acadia Cafe – 329 Cedar Ave
Nomad World Pub – 501 Cedar Ave
Republic – 221 Cedar Ave
The Corner Bar – 1501 Washington Ave S
Town Hall Brewery – 1430 S Washington Ave

Coffee
Hard Times Cafe – 1821 Riverside Ave
Java City (Blegen Hall) – 269 19th Ave S
Mapps Coffee & Tea – 1810 Riverside Ave
Starbucks (Hanson Hall) – 1925 4th Street S

Groceries
Cub Foods – 2850 26th Ave S
Rainbow Foods – 2919 26th Ave S
Seward Co-Op – 2823 East Franklin Avenue
West Bank Grocery – 417 Cedar Ave

Participant List

2016 cyber+polar imagery workshop attendees

Sal Candela	Ohio State University
Vena Chu	University of California, Berkeley
Ben Crosby	Idaho State University
Jim Ferguson	University of Tennessee, Knoxville, XSEDE
Peter Griffith	NASA
Ian Howat	Ohio State University
Elizabeth Hoy	NASA
Michelle LaRue	University of Minnesota
Heather Lynch	Stony Brook University
Bento Goncalves	Stony Brook University
Shantenu Jha	Rutgers University
Bill Kramer (or BW associate)	NCSA, University of Illinois
Mark Salvatore	University of Michigan-Dearborn
Ben Smith	University of Washington
Mike Willis	Cornell University
Chandi Witharana	Stony Brook University
Kang Yang	University of California, Los Angeles

Workshop Agenda

cyber+polar imagery workshop
June 2nd – 3rd, 2016
St. Paul, MN

Thursday, June 2nd

8:00: (For those staying in the dorms) Meet in front of Middlebrook Hall for travel over to Cargill

8:30 - 9:00	**Coffee & Bagels**
9:00 – 9:15	**Welcome and Introductions** Heather Lynch
9:15-9:45	**How do other big-data efforts manage cyberinfrastructure?** Shantenu Jha
9:45 - 10:15	**Introduction to Blue Waters** Bill Kramer (or Blue Waters associate)
10:15 - 10:30	**Break and continued discussion**
10:30 - 11:15	**Introduction to XSEDE** Jim Ferguson
11:15 - 11:45	**Introduction to the ABoVE Science Cloud** Peter Griffith & Liz Hoy
11:45 - 12:30	**Open Discussion**
12:30 - 1:30	**Lunch**
1:30 - 5:30	**Structured brainstorming and discussion**
5:30-	**Continued discussion over dinner**

Friday, June 3rd

8:00: (For those staying in the dorms) Meet in front of Middlebrook Hall for travel over to Cargill

8:30 - 9:00   **Coffee & Bagels**

9:00 - 9:15   **Brief introduction to upcoming funding opportunities**
Heather Lynch

9:15 - 11:45   **Write-athon!**

11:45 - 12:15   **Groups report back on progress, discuss open questions**

12:15 - 1:15   **Lunch**

1:15 - 2:15   **Write-athon!**

2:15 - 3:00   **Pause to discuss next steps for those leaving for the airport**

3:00 - 5:30   **More writing!**