

# Davis Weather Station Log ATM-01 *Dysart Rd. – C. till*

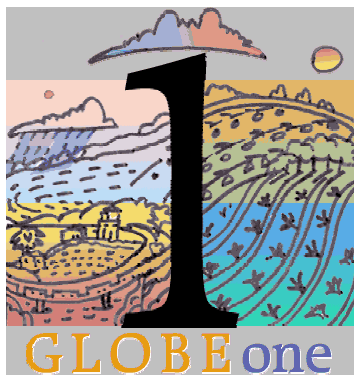
Site Location		
Lat: 42.3754 N	Long: 92.3011 W	Elev: 295 m
Access: 5 mi S. from Waterloo on Dysart Rd; Between fields ~120 m from road		

Cover Conditions
2004 season: soybeans; Sprout 5/10, FullCover 7/??, Harvest 10/1??
2005 season:

Soil Characteristics
<b>BD=1.30 +/- 0.20</b> ; 20 cm org silt-clay to sandy y/o clay No slope



Data Log	
Dates	Notes
5/10 to 12/31/04 5/10 to 11/2/04 6/2 to 10/10/04	Soil temp data looks good! Air temp range: 33 to -25 C Precip data looks good! Major events: 5/22 and 8/4 Soil moisture data: <b>SM@10cm missing</b> (value ~200; reset to -.99) (Kurt waited until crops were out to replace this sensor) Surface drying noticeable after 7/15. Profile is driest Sept.-Oct.

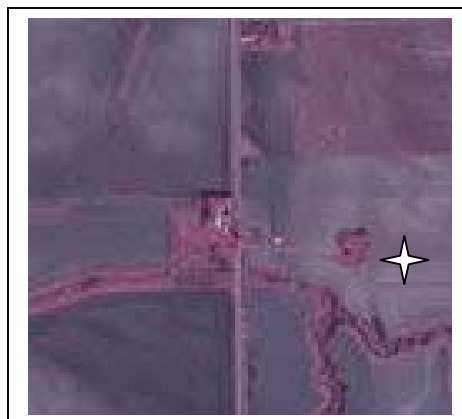


# Davis Weather Station Log ATM-02 *Dysart Rd – no till*

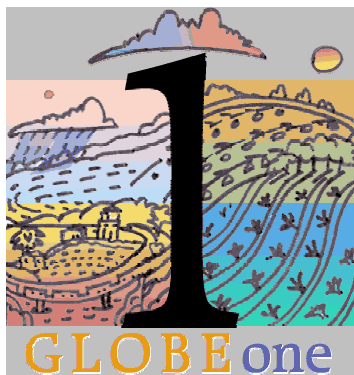
Site Location		
Lat: 42.3717 N	Long: 92.2916 W	Elev: 301 m
Access: 5.25 mi S. from Waterloo on Dysart Rd; E. on farm road to old farmstead, 60 m into field		

Cover Conditions
2004 season: soybeans; Sprout 5/10, FullCover 7/??, Harvest 9/??
2005 season:

Soil Characteristics
<b>BD=1.65 +/- 0.10</b> ; very sandy – all levels S facing slope



Data Log	
Dates	Notes
5/10 to 12/31/04	Period of record. Air temp range: 33 to -25 C
6/7 to 8/19	Precip. Missing – tipping bucket had been restricted by a spider web
8/19 to 9/13	Soil moisture: surface drying after 7/15; profile is driest Aug.-Sept.
9/13 to 9/19	All soil moisture and temperature missing – <b>data logger problem??</b>
9/12 to 11/2	Problems with time code (behind by 18.5 hrs) corrected by adding .7604167 to archived SM & ST values between these dates. <b>SM@60cm</b> is constantly above 70 cbars – check this spring if reading does not come down.

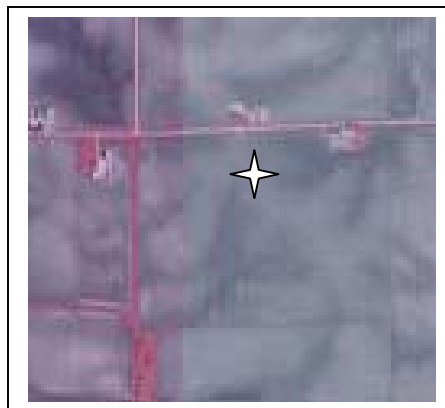


# Davis Weather Station Log ATM-03 *Jesup Rd. – C. till*

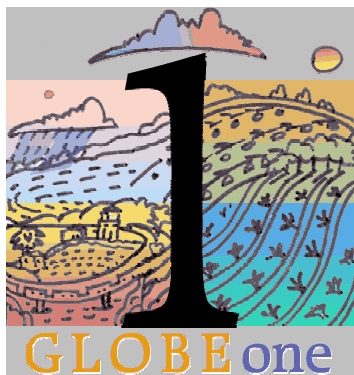
Site Location		
Lat: 42.4109 N	Long: 92.1180 W	Elev: 317 m
Access: 9 mi E. from Waterloo on US 20; 2.5 mi S. on ?? Rd; .25 mi E on Jesup Rd; 150m S. from rd opposite house below minor terrace		

Cover Conditions
2004 season – corn; Sprout 5/10, FullCover 7/??, Harvest 9/??
2005 season -

Soil Characteristics
<b>BD=1.40 +/- 0.10</b> ; 60 cm org clay loam to y/o sandy clay No slope



Data Log	
Dates	Notes
5/10 to 12/31/04	Soil temp data looks good! Air temp range: 33 to –25 C Precip. data looks good! Major events: 5/21-5/23 Soil moisture data looks good! Surface drying noticeable after 6/6. Profile is driest Aug.-Oct.
5/10 to 11/2/04	
5/10 to 11/2/04	

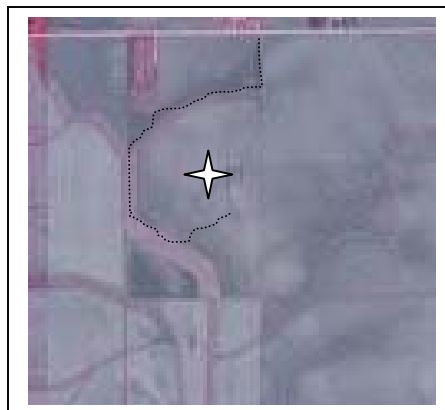


# Davis Weather Station Log ATM-04 *Jesup Rd. – no till*

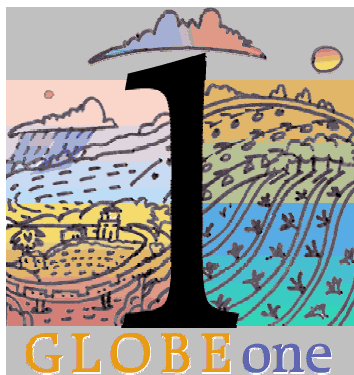
Site Location		
Lat: 42.3952 N	Long: 92.1153	Elev: 307 m
Access: 9 mi E. from Waterloo on US 20; 2.5 mi S. on ?? Rd; 1 mi E on Jesup Rd; 1 mi S on ?? Rd; .75 mi W on ?? Rd; follow pasture strip S, as shown.		

Cover Conditions
2004 season – corn; Sprout 5/10, FullCover 7/??, Harvest 9/??
2005 season -

Soil Characteristics
<b>BD=1.60 +/- 0.10</b> ; 15 cm org. clay loam to y/o sandy clay SW facing slope



Data Log	
Dates	Notes
5/10 to 12/31/04	Period of record. Air temp. range: 33 to –25 C Major precip events: 5/21-5/23 Soil moisture: surface drying after 6/24; Profile is driest Aug.-Oct.
7/23 to 8/5/04	All soil moisture and temperature missing – missing file???
10/22 to 11/2/04	All soil moisture and temperature missing – missing file???

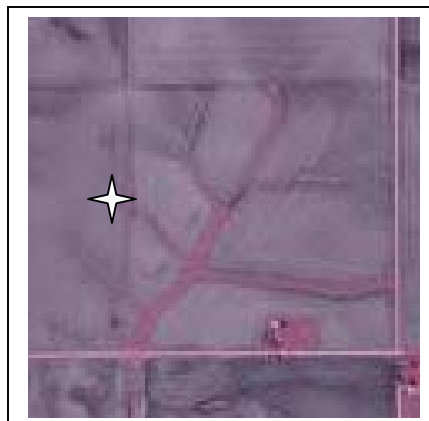


# Davis Weather Station Log ATM-05 *Big Rock Rd. – C. till*

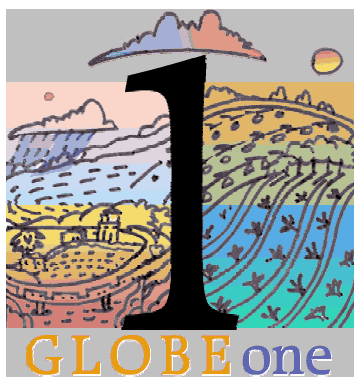
Site Location		
Lat: 42.5587 N	Long: 92,2902 W	Elev: 319 m
Access: 4 mi N on 63; 2.5 mi E on Big Rock Rd; Follow pasture strip NE to 2 <sup>nd</sup> draw to NW to end		

Cover Conditions
2004 season – corn; Sprout 5/10, FullCover 7/??, Harvest 9/??
2005 season -

Soil Characteristics
<b>BD=1.30 +/- 0.10</b> ; 70 cm org. loam to y/o clay E facing slope



Data Log	
Dates	Notes
5/10 to 12/31/04	Period of record. Air temp. range: 33 to –25 C Major precip. events: 5/21-5/23, 8/27
10/10 to 11/3/04	Soil moisture: surface drying after 7/3; profile is not too dry All soil moisture and temperature missing – <b>missing file???</b>

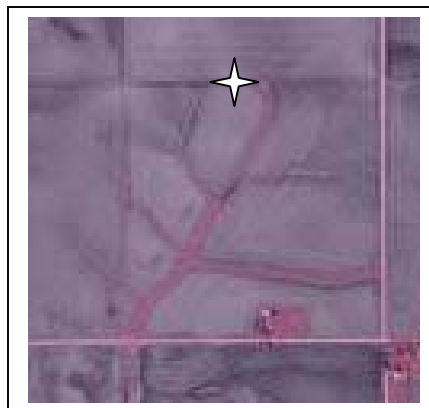


# Davis Weather Station Log ATM-06 *Big Rock Rd. – no till*

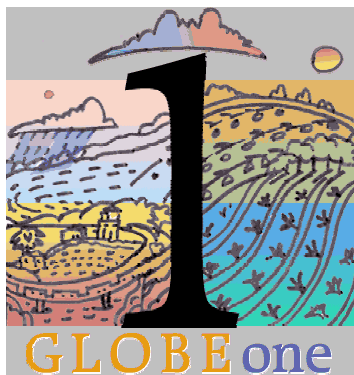
Site Location		
Lat: 42.5631 N	Long: 92.2854	Elev: 331 m
Access: 4 mi N on 63; 2.5 mi E on Big Rock Rd; Follow pasture strip NE to end.		

Cover Conditions
2004 season – corn; Sprout 5/10, FullCover 7/??, Harvest 9/??
2005 season -

Soil Characteristics
<b>BD=1.10 +/- 0.05</b> ; 10 cm org. clay loam to rocky y/o clay, water Minor SE facing slope



Data Log	
Dates	Notes
5/10 to 12/31/04	Period of record. Air temp. range: 32 to –25 C Major precip. events: 5/21-5/23, 8/27 Soil moisture: surface drying after 6/5; profile is driest Sept.-Oct.
10/22 to 11/3/04	All soil moisture and temperature missing – <b>missing file???</b>



# Davis Weather Station Log ATM-07 *Hwy 63 N – C. till*

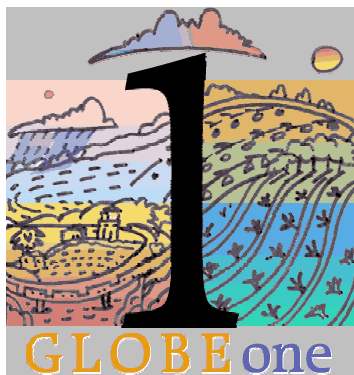
Site Location		
Lat: 42.6069 N	Long: 92.3352 W	Elev: 327 m
Access: 7.5 mi N on Hwy 63; 90 m E off road opposite house		

Cover Conditions
2004 season: soybeans; Sprout 5/10, FullCover 7/??, Harvest 9/??
2005 season -

Soil Characteristics
<b>BD=1.25 +/- 0.20</b> ; 70 cm org. loam to y/o clay No slope



Data Log	
Dates	Notes
5/10 to 12/22/04	Soil temp data looks good! Air temp range: 33 to -25 C
5/10 to 11/21/04	Precip. data looks good! Major events: 8/27
5/10 to 11/21/04	Soil moisture data looks good! Surface drying noticeable after 6/9. Profile is driest in Sept.

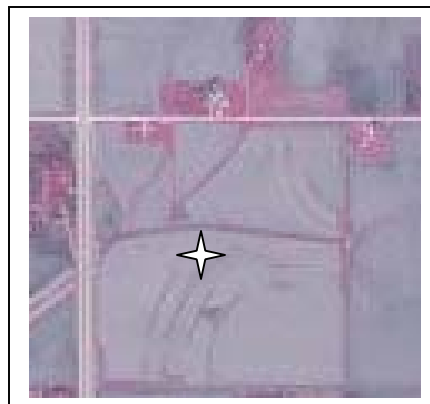


# Davis Weather Station Log ATM-08 *Hwy 63 N – no till*

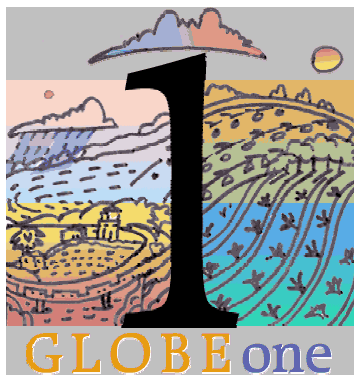
Site Location		
Lat: 42.5961 N	Long: 92.3329 W	Elev: 318 m
Access: 7 mi N on Hwy 63; .25 mi E on ?? Rd; follow pasture strip S then E to within 50 m of site to S		

Cover Conditions
2004 season: soybeans; Sprout 5/10, FullCover 7/??, Harvest 9/??
2005 season -

Soil Characteristics
<b>BD=1.45 +/-0.05</b> ; Soil: 70 cm org. loam to rocky y/o clay NNW facing slope



Data Log	
Dates	Notes
5/10 to 12/31/04	Soil temp data looks good! Air temp range: 33 to -25 C
5/10 to 11/3/04	Precip. data looks good! Major events: 8/27
5/10 to 11/3/04	Soil moisture data looks good! Surface drying noticeable after 7/19. Profile is driest Sept.-Oct.

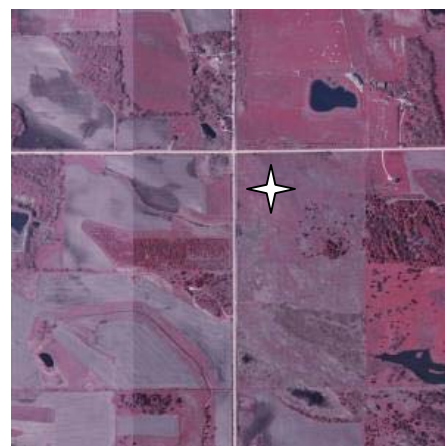


# Davis Weather Station Log ATM-09 *Sand Prairie*

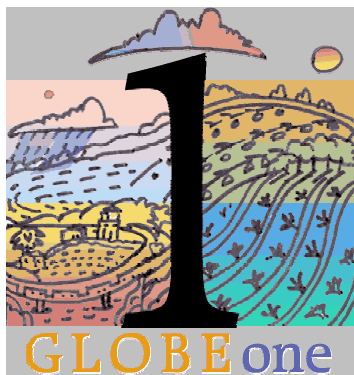
Site Location		
Lat: 42.5951 N	Long: 92.5526 W	Elev: 317m
Access:		

Cover Conditions
2004 season – natural prairie
2005 season -

Soil Characteristics
<b>BD=1.3 +/- 0.10</b> ; very sandy; some y/o sand at 30 cm
<b>Slope???</b>



Data Log	
Dates	Notes
5/12 to 12/31/04	Soil temp data looks good! Air temp range: 32 to -25 C
5/12 to 11/21/04	Precip. data looks good! Major events: none > 20 mm
5/12 to 11/21/04	Surface drying noticeable after 9/21. Profile stays relatively moist.
5/25 to 5/31 to 7/21	Complete to regular gaps in SM and ST data due to data logger problem
7/21/04	<b>Data logger replaced</b>
7/21 to 9/19/04	SM@10cm and <a href="#">SM@30cm</a> wires damaged by animal bite (reset to -.99)

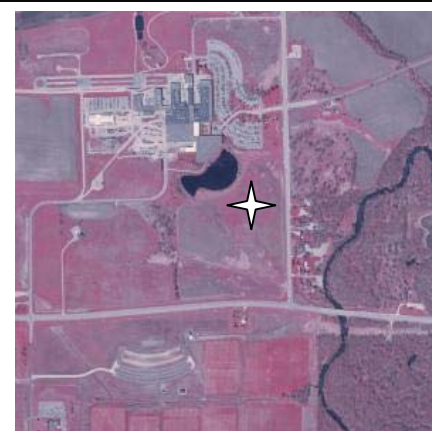


# Davis Weather Station Log ATM-10 *John Deere Prairie*

Site Location		
Lat: 42.4727 N	Long: 92.4177 W	Elev: 308 m
Access: 2 I S on Hwy 63; 1 mi W on ?? Rd; .25 mi N on ?? Rd; park in far SE corner of employee lot and follow trail S		

Cover Conditions
2004 season - prairie
2005 season -

Soil Characteristics
<b>BD=1.6 +/- 0.30</b> ; Soil: 15 cm org loam grading to dark streaked y/o clay loam; SE facing slope



Data Log	
Dates	Notes
5/9 to 12/31/04	Soil temp data looks good! Air temp range: 32 to -25 C
5/9 to 11/2/04	Precip. data looks good! Major events: 5/21-5/23, 8/4
5/9 to 11/2/04	Soil moisture data looks good! Surface drying noticeable after 6/17.
9/?? To 9/19	Profile is driest Sept.-Oct.
	Data logger time code is 1 hr behind (uncorrected)