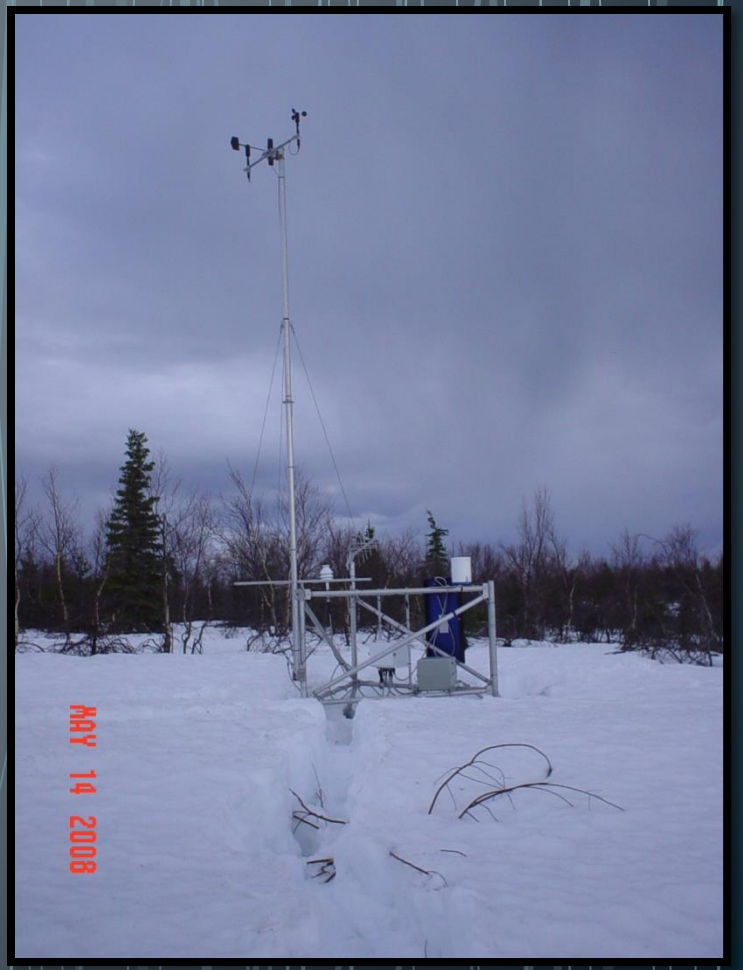
Winter WIMS Webinar

AWFCG, Fire Modeling and Application Committee



Introductions

- Jan Passek, US Fish Wildlife Service
- Heidi Strader, NPS Predictive Services – AICC*
- Sharon Alden, NPS Predictive Services - AICC*

*Alaska Interagency Coordination Center

Goal for today

- Identify Station Owners in WIMS
  - Responsibilities of Station
  - Access Control list – what are they, who controls them
- Care and feeding of the WIMS station Catalog
  - NFDRS- Freezing/Green up of station

Data:

Identifying Missing days in WIMS

Entering back data

Other sources to display missing data for WIMS.

Roles and Responsibilities

- Equipment Maintenance:
  - Alaska Cooperative Planning Group
  - $1,700
- Site Maintenance:

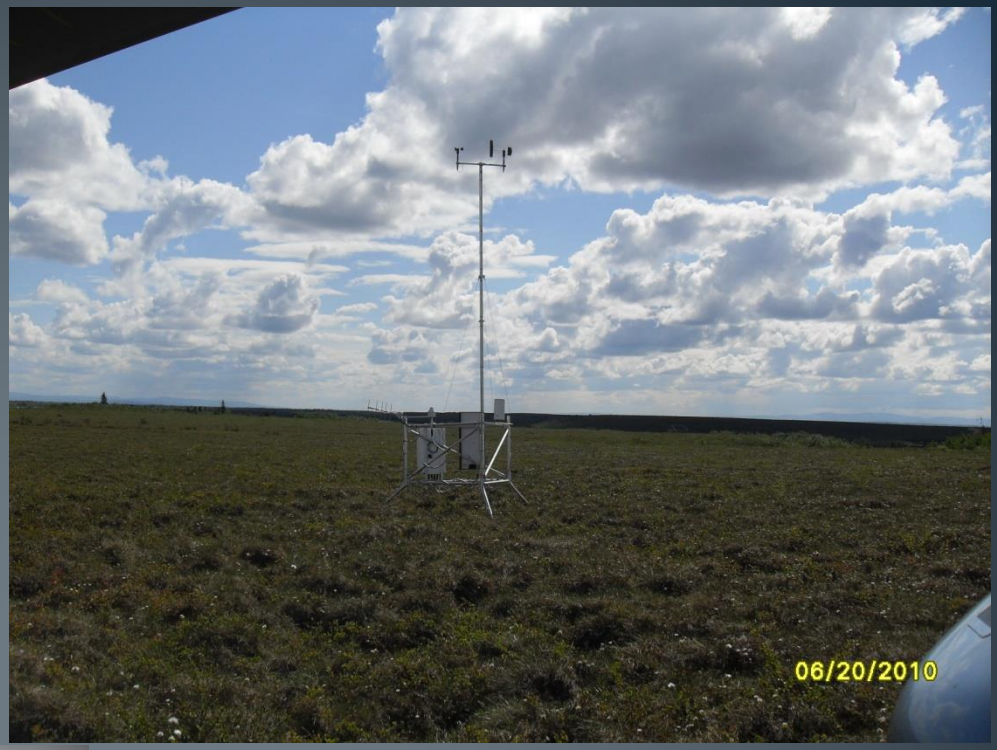
- **WIMS Station Catalog**
- **DATA Maintenance**

WLOBSMIX-WX Observations in WIMS for Station 500726, Year: 2012
"_" indicates missing observation

	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3
Mon	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
MAY	_	_	_	_	_	_	X	X	X	_	_	X	X	X	_	X	X	_	_	X	_	X	X	X	_	X	X	X	X	X	X
JUN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_
JUL	X	X	X	X	_	X	_	_	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AUG	X	X	X	X	X	X	X	X	X	X	X	_	X	X	_	X	X	X	X	X	X	_	X	X	_	X	_	X	_	X	X
SEP	_	_	_	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	_
OCT	X	X	X	X	X	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

WIMS Roles

- Station Owner
- Editor



07/18/2009

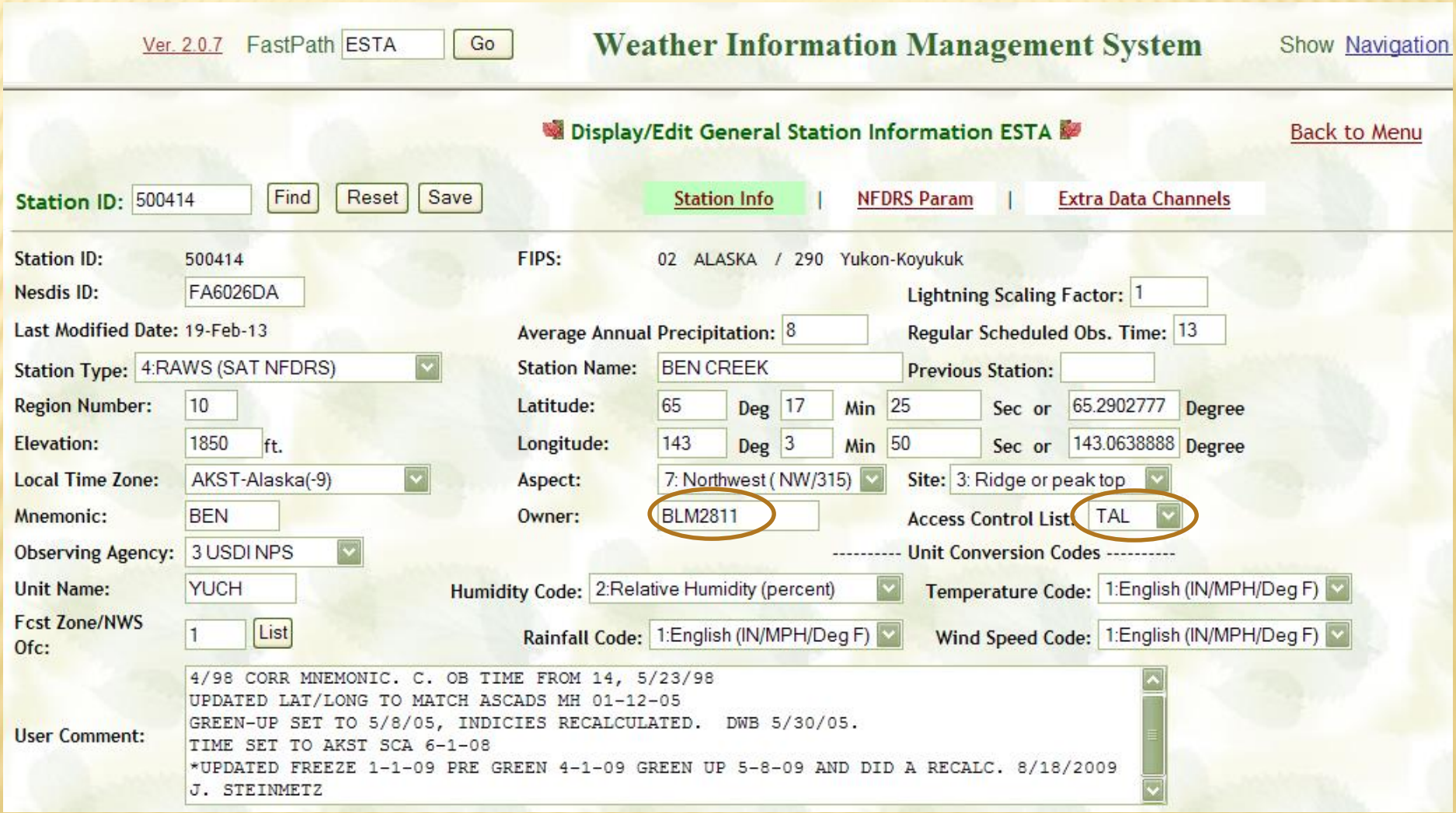
05/18/2010

09/18/2010

MANAGING YOUR STATION CATALOG

- Owner/ Access Control List (ACL)
- NFDRS Parameters
  - Fuel model G
  - Herb Stage and Dates

STATION CATALOG - ESTA



NFDRS PARAMETERS - ENFDR

Ver. 2.0.7 FastPath ENFDR Go **Weather Information Management System** Show Navigation Tree

Display/Edit Default NFDRS Parameters Back to Menu

Station ID: 500414 **Effective Date:** 21-Feb-13 Find Reset Save View Change Archive

78 & 88 NFDRS	100-hr	15
	1000-hr	20
88 NFDRS	1hr=10hr	☐
	KBDI	100
Snow Flag		☐

SOW Thresholds (No Precip last 24 Hrs)	Pct Psbl	SOW & Wet Flag Thresholds (Precip last 24 Hrs)	CC2* Default?
PCNT_Clear	85	1HR_Drizzle (inches)	0.1
PCNT_Scattered	75	1HR_Rain (inches)	0.15
PCNT_Broken	50	1HR_Showers (inches)	0.5
		3HR_DUR_WetFlag (hours)	2
		3HR_AMT_WetFlag (inches)	0.75
		24HR_DUR_WetFlag (hours)	10
		24HR_AMT_WetFlag (inches)	1.5

* Climate Class of the first priority Fuel Model (7Q)

Del	Pri	ID	** 78 NFDRS Only **			88 Sb	Slp	Grs	Cli	Herb FM	Woody FM	X-1000	Staffing Idx Breakpoints					
			HS	Herb Date	Greenup Date								SI	DC	Low		High	
															SI%	Val	SI%	Val
☐	1	7Q	T	31-May-12	15-May-12		1	P	2	30	60	20			90		97	
☐	2	7G	F	01-Dec-11	22-May-11		1	P	2	30	60	20			90		97	

HERB STAGE

- Effective date!
- Frozen – Manually set *
- Pre-Green up – Manually set *
- Green up – Manually set *
- Transition – Set by NFDRS
- Cured – Set by NFDRS
- Frozen – Manually set *

QUESTIONS?

- Why G?
  - Worked best across the country as a common measure. Yes, even in Alaska.

DNFDR – TO TAKE A LOOK AT THINGS

- Options – DIDX, DMGR, DABR, DSHR, etc.
- DABR - Abbreviated
  - Most but not all the NFDRS data.

Ver. 2.0.7 FastPath DNFDR Go

Weather Information Management System

Show

Display Abbreviated Format DABR

Back

Station ID: 500414 or SIG Type: O/R Date: 15-JUN-12-15-JUL-12 Find Reset Print Export

Station ID	Dt	Ob TM	Tp	MSGC	TH	IC	LR	LO	HR	HO	SC	EC	BI	FL	SL	R
500414	071512	13	O	7Q1P2	19	4	0	0	0	0	10	31	42	30		
500414	071512	13	O	7G1P2	19	3	0	0	0	0	3	27	23	16		
500414	071412	13	O	7Q1P2	20	12	0	0	0	0	8	41	44	31		
500414	071412	13	O	7G1P2	20	10	0	0	0	0	3	29	24	17		
500414	071312	13	R	7Q1P2	20	11	0	0	0	0	10	38	47	33		
500414	071312	13	R	7G1P2	20	9	0	0	0	0	4	27	25	18		
500414	071212	13	O	7Q1P2	21	21	0	0	0	0	11	42	51	36		
500414	071212	13	O	7G1P2	21	18	0	0	0	0	4	25	26	18		
500414	071112	13	O	7Q1P2	21	0	0	0	0	0	0	0	0	0		
500414	071112	13	O	7G1P2	21	0	0	0	0	0	0	2	0	0		
500414	071012	13	O	7Q1P2	18	0	0	0	0	0	0	0	0	0		
500414	071012	13	O	7G1P2	18	0	0	0	0	0	0	12	0	0		
500414	070912	13	O	7Q1P2	17	14	0	0	0	0	13	45	56	40		
500414	070912	13	O	7G1P2	17	11	0	0	0	0	4	38	32	23		
500414	070812	13	O	7Q1P2	18	10	0	0	0	0	6	44	40	28		
500414	070812	13	O	7G1P2	18	9	0	0	0	0	3	36	24	17		
500414	070712	13	O	7Q1P2	19	31	0	0	0	0	20	48	71	50		
500414	070712	13	O	7G1P2	19	26	0	0	0	0	7	34	39	28		

RECALCULATE

- This is only for the station managers
- What they do if the green-up date has been changed or a lot of old data has been filled in.
- ENRR – Recalculate
  - Fill in all observations
  - Set Frozen, Pregreen and/or Green-up dates.
  - Start and end dates

WHAT DO WE USE IT FOR IN ALASKA?

- WFDSS and FS-Pro in particular
- 7-day Fire Potential Forecasts
- If it's not run or the data isn't there,
  - There will be no output for the 7-Day Product
  - There will be no nearby information to do FS-Pro runs and they will use the next closest station, which may be not so close.

IF THE HERB STAGE IS WAY OFF

- FS-Pro runs of fire spread will be wildly inaccurate
  - The fire analyst will spend a lot of time adjusting for the inaccuracies.
- Output into the 7-Day Product will be inaccurate
  - The Predictive Services Meteorologist will spend a lot of time manually fixing the forecasts.

WHAT ABOUT CFFDRS?

- That's what we use for Fire Danger and Fire Behavior.
- CFFDRS is also used along with NFDRS in the 7-day Fire Potential Product.

- Questions?

  - Gaining an Understanding of the National Fire Danger Rating System

QUESTIONS?

- Thanks to the Alaska Fire Science Consortium for their support of this webinar.