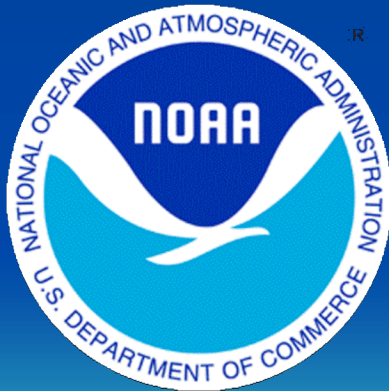


Marine Meteorological Imaging and Keying Projects

Scott D. Woodruff

NOAA/OAR/Climate Diagnostics Center



Joe D. Elms

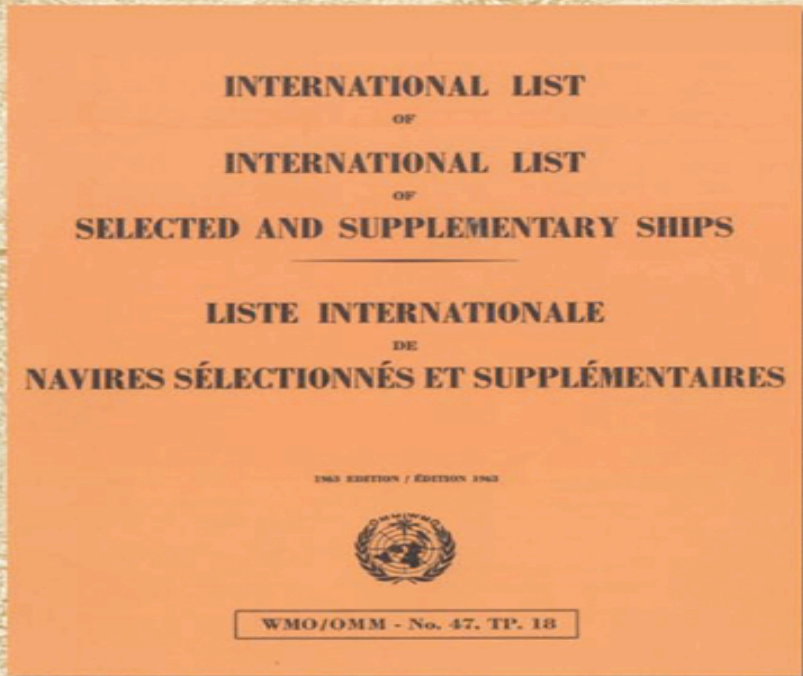
NOAA/NCDC/Climate Database Modernization Program

Program Overview

Overview of the CDMP Program

- Make major climate databases accessible via the internet.
- Primary focus is to image and key NOAA's climate and environmental data including associated metadata.
- More than 40 million images and 5 terabytes of data on-line.
- CDMP supports International Comprehensive Ocean-Atmosphere Data Set and related marine programs.

Major Tasks- WMO Publication



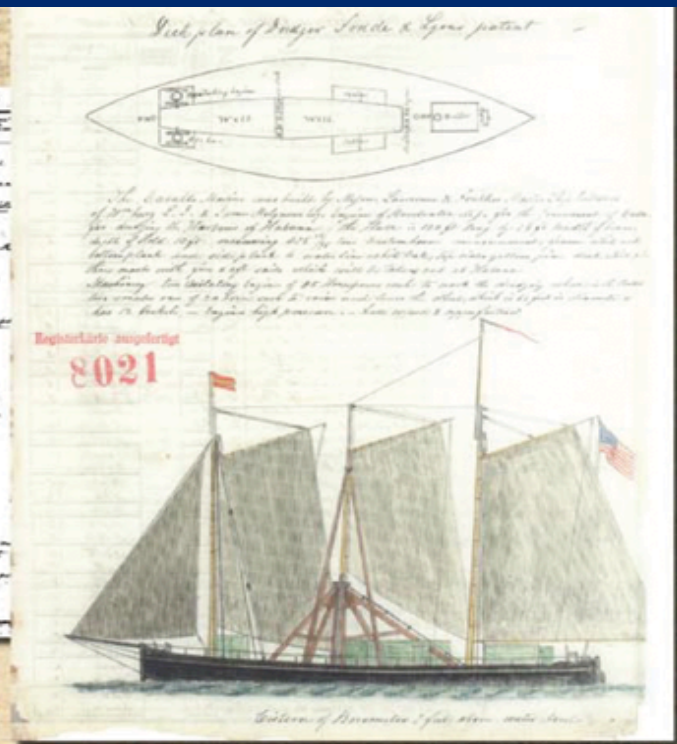
UNION OF SOVIET SOCIALIST REPUBLICS /
UNION DES RÉPUBLIQUES SOCIALISTES SOVIÉTIQUES
Selected ships / Supplémentary ships

	1	2	3	4	5	6	7	8	9	10	11	12	13
Bobrujsk	2377	18	an	sea	a	p	a	bu	an	-	0	-	-
Bobrujskies	2384	18	an	sea	a	p	a	bu	an	-	0	-	-
Bogdan Khmel'nikoŭ	2391	18	an	sea	a	p	a	bu	an	-	0	-	-
Bogufar	2393	4,7	an	sea	a	p	a	bu	an	-	0	-	-
Borodina	2394	1,14,15,16	an	sea	a	p	a	bu	an	-	0	-	-
Boŭlskovo	2395	18	an	sea	a	p	a	bu	an	-	0	-	-
Brestsk	2396	18	an	sea	a	p	a	bu	an	-	0	-	-
Brest	2398	1,14,15,16	an	sea	a	p	a	bu	an	-	0	-	-
Brivŭba	2403	10,11	an	sea	a	p	a	bu	an	-	0	-	-
Brisk	2417	11	an	sea	a	p	a	bu	an	-	0	-	-
Brjansk	2420	1,14,15,16	an	sea	a	p	a	bu	an	-	0	-	-
Brjanskies	2421	18	an	sea	a	p	a	bu	an	-	0	-	-
Brjanskŭt	2422	18	an	sea	a	p	a	bu	an	-	0	-	-
Budennovsk	2423	1,14,15,16,17	an	sea	a	p	a	bu	an	-	0	-	-
Buzi'ska	2430	18	an	sea	a	p	a	bu	an	-	0	-	-
Buzovskan	2431	18	an	sea	a	p	a	bu	an	-	0	-	-
Buz	2432	4,5,6,7,8	an	sea	a	p	a	bu	an	-	0	-	-
Burdzko	2433	18	an	sea	a	p	a	bu	an	-	0	-	-
Bubokovsk	2434	18	an	sea	a	p	a	bu	an	-	0	-	-
Buzen'	2435	4	an	sea	a	p	a	bu	an	-	0	-	-
Bukhograd	2436	1,15,16	an	sea	a	p	a	bu	an	-	0	-	-
Bukhtinsk	2437	18	an	sea	a	p	a	bu	an	-	0	-	-
Buzovsk	2438	1,15,16	an	sea	a	p	a	bu	an	-	0	-	-
Buzovsk	2439	1,15,16	an	sea	a	p	a	bu	an	-	0	-	-
Buzovsk	2440	18	an	sea	a	p	a	bu	an	-	0	-	-
Buzovsk	2441	18	an	sea	a	p	a	bu	an	-	0	-	-
Buzovsk	2442	1,14,16	an	sea	a	p	a	bu	an	-	0	-	-
Buzovsk	2443	1,15,16	an	sea	a	p	a	bu	an	-	0	-	-
Buzovsk	2444	1,15,16,17,18	an	sea	a	p	a	bu	an	-	0	-	-
Buzovsk	2445	18	an	sea	a	p	a	bu	an	-	0	-	-
Buzovsk	2446	18	an	sea	a	p	a	bu	an	-	0	-	-

- Image and key the 1955-1972 editions of the World Meteorological Organization Publication Number 47.

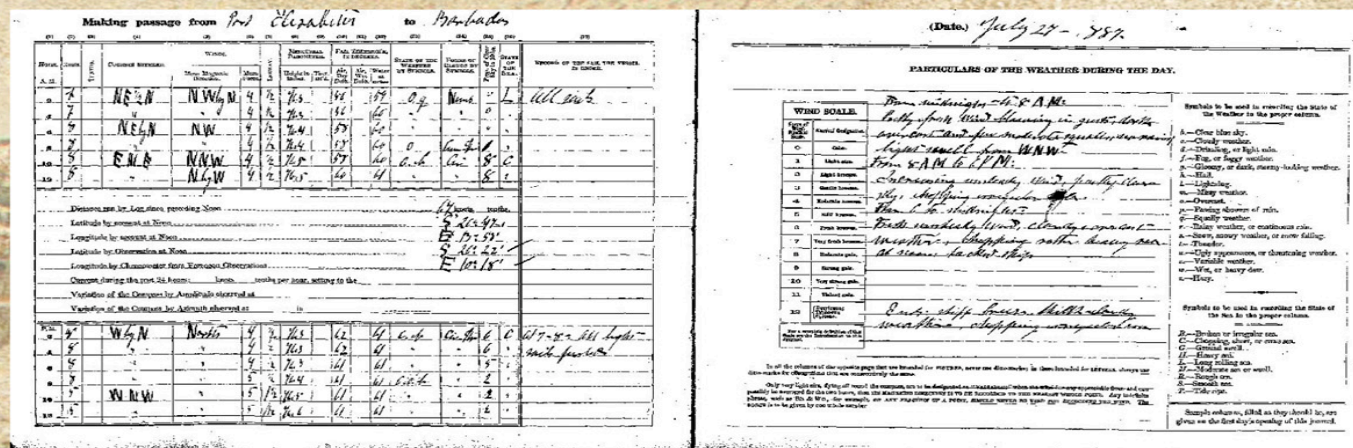
Major Tasks- German Maury Logbooks

The image shows two pages from a German Maury logbook. The left page is a table with columns for date, latitude, longitude, wind, and other observations. The right page contains handwritten notes in German, including dates and descriptions of ship operations.



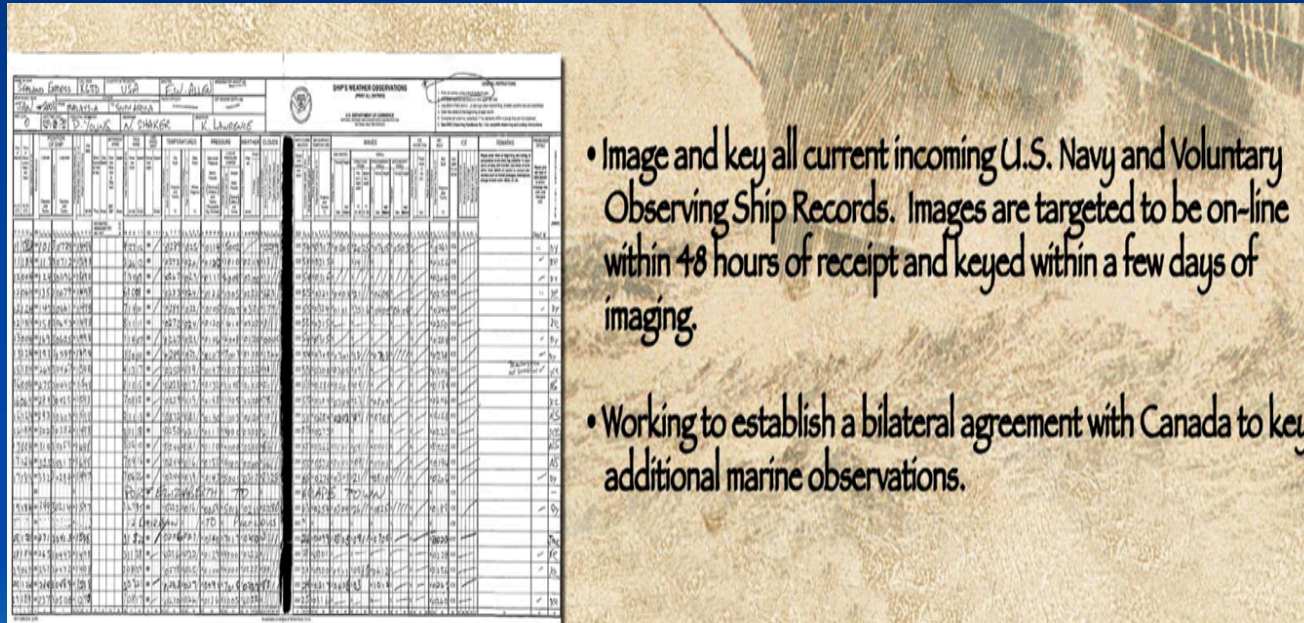
- Imaged 850 German Maury Logbooks while they were on loan from the Deutscher Wetterdienst archive in Hamburg, Germany.

Major Tasks-Variou Historical Journals



- Additional imaging projects include: U.S. Marine Meteorological Journals (1878-1894), U.S. Maury Collection (1784-1863), and the U.S. 20th Century light ship records.

Major Tasks- Observing Ship Records and Bilateral Agreement



SHIP'S WEATHER OBSERVATIONS									
SHIP'S NAME		COUNTRY		PORT OF ORIGIN		DATE		TIME	
OBSERVATIONS									
WIND	SEA	WAVE	SWELL	ICE	TEMPERATURE	WIND	SEA	WAVE	SWELL
DIR	HT	DIR	HT	DIR	AIR	DIR	HT	DIR	HT
010	3	010	3		15	010	3	010	3
020	4	020	4		16	020	4	020	4
030	5	030	5		17	030	5	030	5
040	6	040	6		18	040	6	040	6
050	7	050	7		19	050	7	050	7
060	8	060	8		20	060	8	060	8
070	9	070	9		21	070	9	070	9
080	10	080	10		22	080	10	080	10
090	11	090	11		23	090	11	090	11
100	12	100	12		24	100	12	100	12
110	13	110	13		25	110	13	110	13
120	14	120	14		26	120	14	120	14
130	15	130	15		27	130	15	130	15
140	16	140	16		28	140	16	140	16
150	17	150	17		29	150	17	150	17
160	18	160	18		30	160	18	160	18
170	19	170	19		31	170	19	170	19
180	20	180	20		32	180	20	180	20
190	21	190	21		33	190	21	190	21
200	22	200	22		34	200	22	200	22
210	23	210	23		35	210	23	210	23
220	24	220	24		36	220	24	220	24
230	25	230	25		37	230	25	230	25
240	26	240	26		38	240	26	240	26
250	27	250	27		39	250	27	250	27
260	28	260	28		40	260	28	260	28
270	29	270	29		41	270	29	270	29
280	30	280	30		42	280	30	280	30
290	31	290	31		43	290	31	290	31
300	32	300	32		44	300	32	300	32
310	33	310	33		45	310	33	310	33
320	34	320	34		46	320	34	320	34
330	35	330	35		47	330	35	330	35
340	36	340	36		48	340	36	340	36
350	37	350	37		49	350	37	350	37
360	38	360	38		50	360	38	360	38
370	39	370	39		51	370	39	370	39
380	40	380	40		52	380	40	380	40
390	41	390	41		53	390	41	390	41
400	42	400	42		54	400	42	400	42
410	43	410	43		55	410	43	410	43
420	44	420	44		56	420	44	420	44
430	45	430	45		57	430	45	430	45
440	46	440	46		58	440	46	440	46
450	47	450	47		59	450	47	450	47
460	48	460	48		60	460	48	460	48
470	49	470	49		61	470	49	470	49
480	50	480	50		62	480	50	480	50
490	51	490	51		63	490	51	490	51
500	52	500	52		64	500	52	500	52
510	53	510	53		65	510	53	510	53
520	54	520	54		66	520	54	520	54
530	55	530	55		67	530	55	530	55
540	56	540	56		68	540	56	540	56
550	57	550	57		69	550	57	550	57
560	58	560	58		70	560	58	560	58
570	59	570	59		71	570	59	570	59
580	60	580	60		72	580	60	580	60
590	61	590	61		73	590	61	590	61
600	62	600	62		74	600	62	600	62
610	63	610	63		75	610	63	610	63
620	64	620	64		76	620	64	620	64
630	65	630	65		77	630	65	630	65
640	66	640	66		78	640	66	640	66
650	67	650	67		79	650	67	650	67
660	68	660	68		80	660	68	660	68
670	69	670	69		81	670	69	670	69
680	70	680	70		82	680	70	680	70
690	71	690	71		83	690	71	690	71
700	72	700	72		84	700	72	700	72
710	73	710	73		85	710	73	710	73
720	74	720	74		86	720	74	720	74
730	75	730	75		87	730	75	730	75
740	76	740	76		88	740	76	740	76
750	77	750	77		89	750	77	750	77
760	78	760	78		90	760	78	760	78
770	79	770	79		91	770	79	770	79
780	80	780	80		92	780	80	780	80
790	81	790	81		93	790	81	790	81
800	82	800	82		94	800	82	800	82
810	83	810	83		95	810	83	810	83
820	84	820	84		96	820	84	820	84
830	85	830	85		97	830	85	830	85
840	86	840	86		98	840	86	840	86
850	87	850	87		99	850	87	850	87
860	88	860	88		100	860	88	860	88
870	89	870	89		101	870	89	870	89
880	90	880	90		102	880	90	880	90
890	91	890	91		103	890	91	890	91
900	92	900	92		104	900	92	900	92
910	93	910	93		105	910	93	910	93
920	94	920	94		106	920	94	920	94
930	95	930	95		107	930	95	930	95
940	96	940	96		108	940	96	940	96
950	97	950	97		109	950	97	950	97
960	98	960	98		110	960	98	960	98
970	99	970	99		111	970	99	970	99
980	100	980	100		112	980	100	980	100
990	101	990	101		113	990	101	990	101
1000	102	1000	102		114	1000	102	1000	102

- Image and key all current incoming U.S. Navy and Voluntary Observing Ship Records. Images are targeted to be on-line within 48 hours of receipt and keyed within a few days of imaging.
- Working to establish a bilateral agreement with Canada to key additional marine observations.