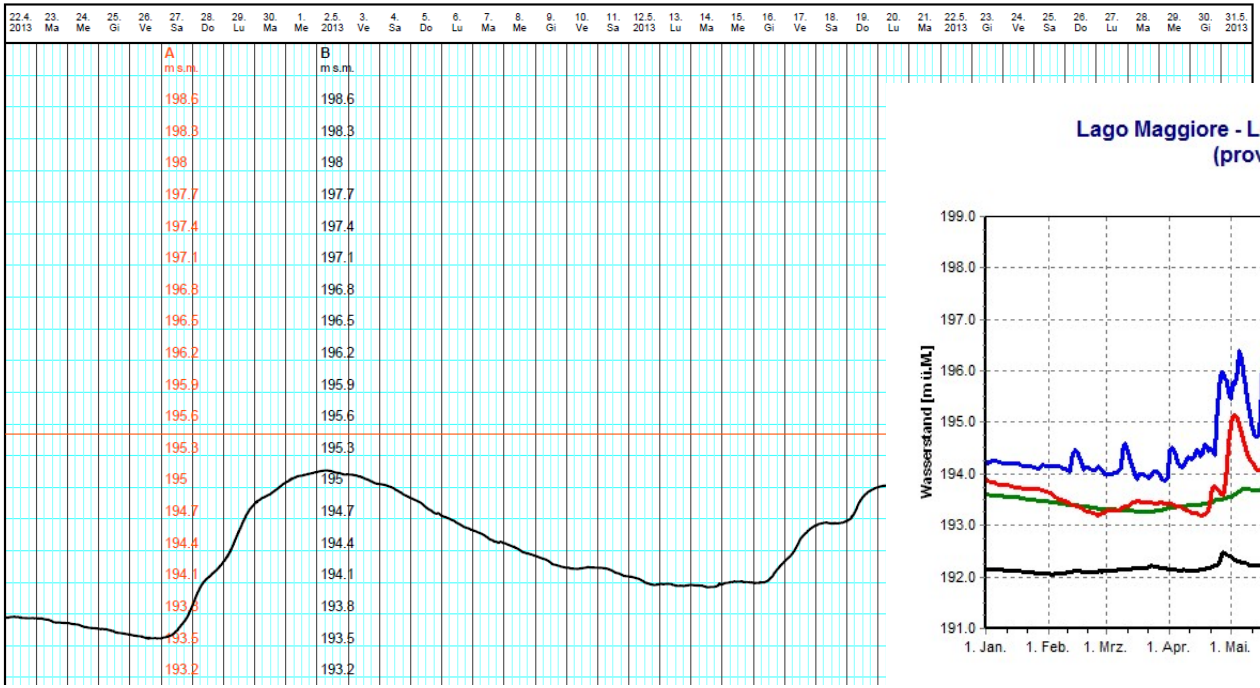
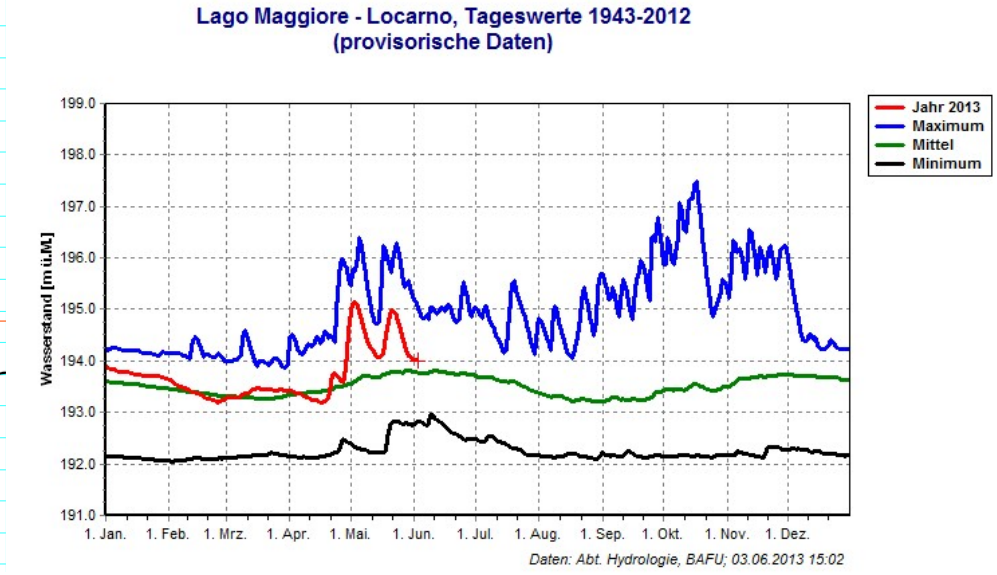
Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Dipartimento federale dell'interno DFI
Ufficio federale di meteorologia e climatologia MeteoSvizzera

Primavera 2013

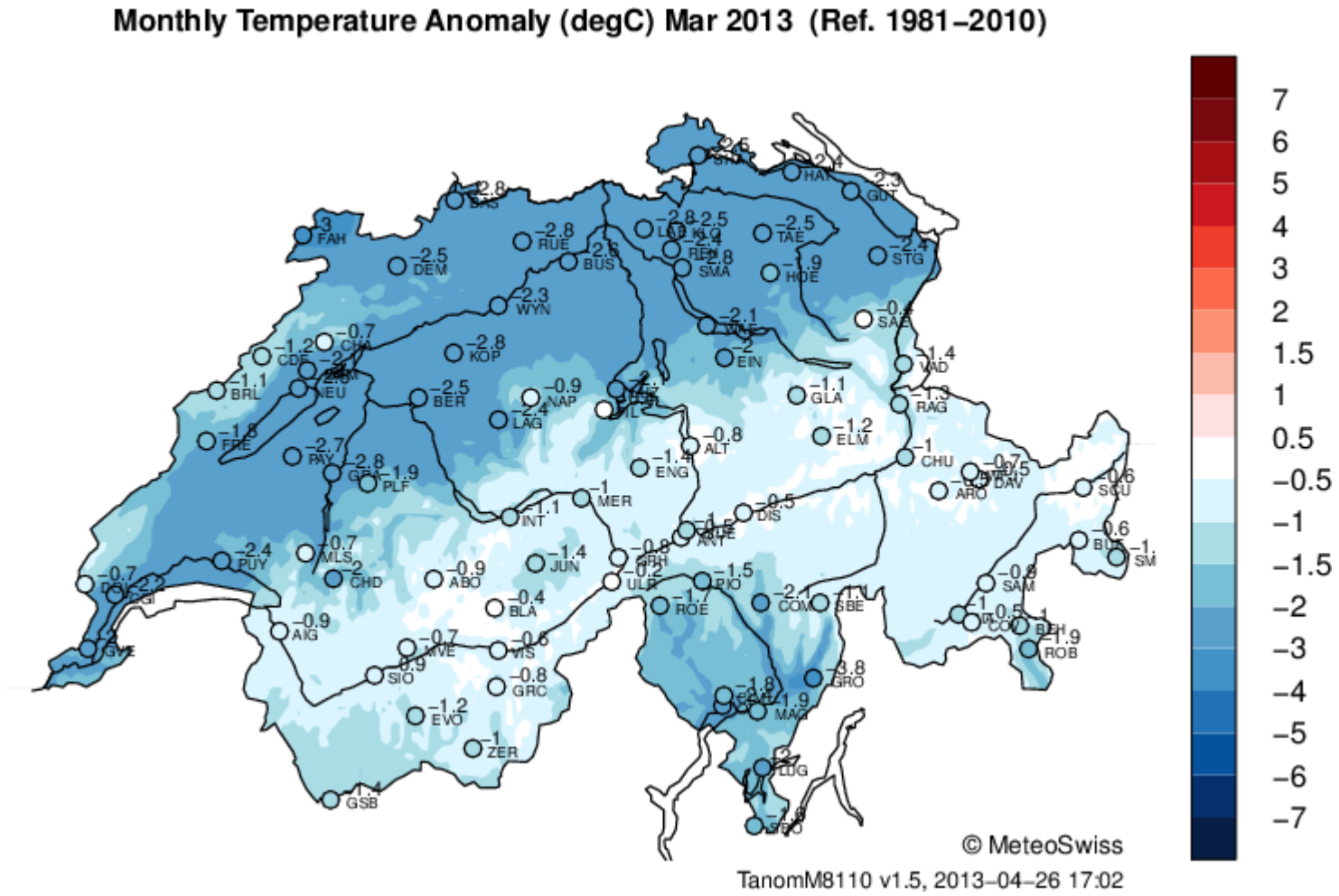




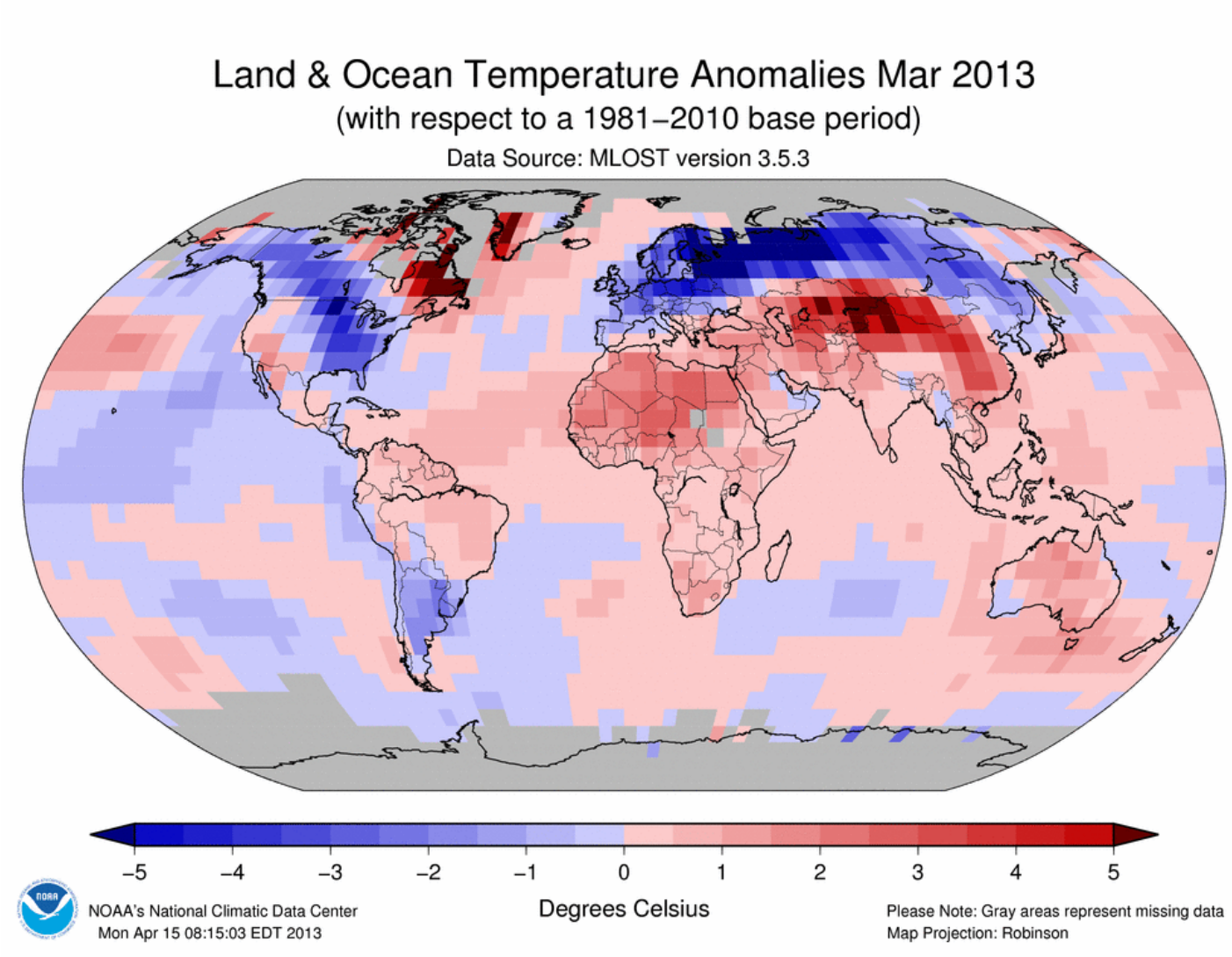
Retrospettiva meteoclimatica

Matteo Buzzi

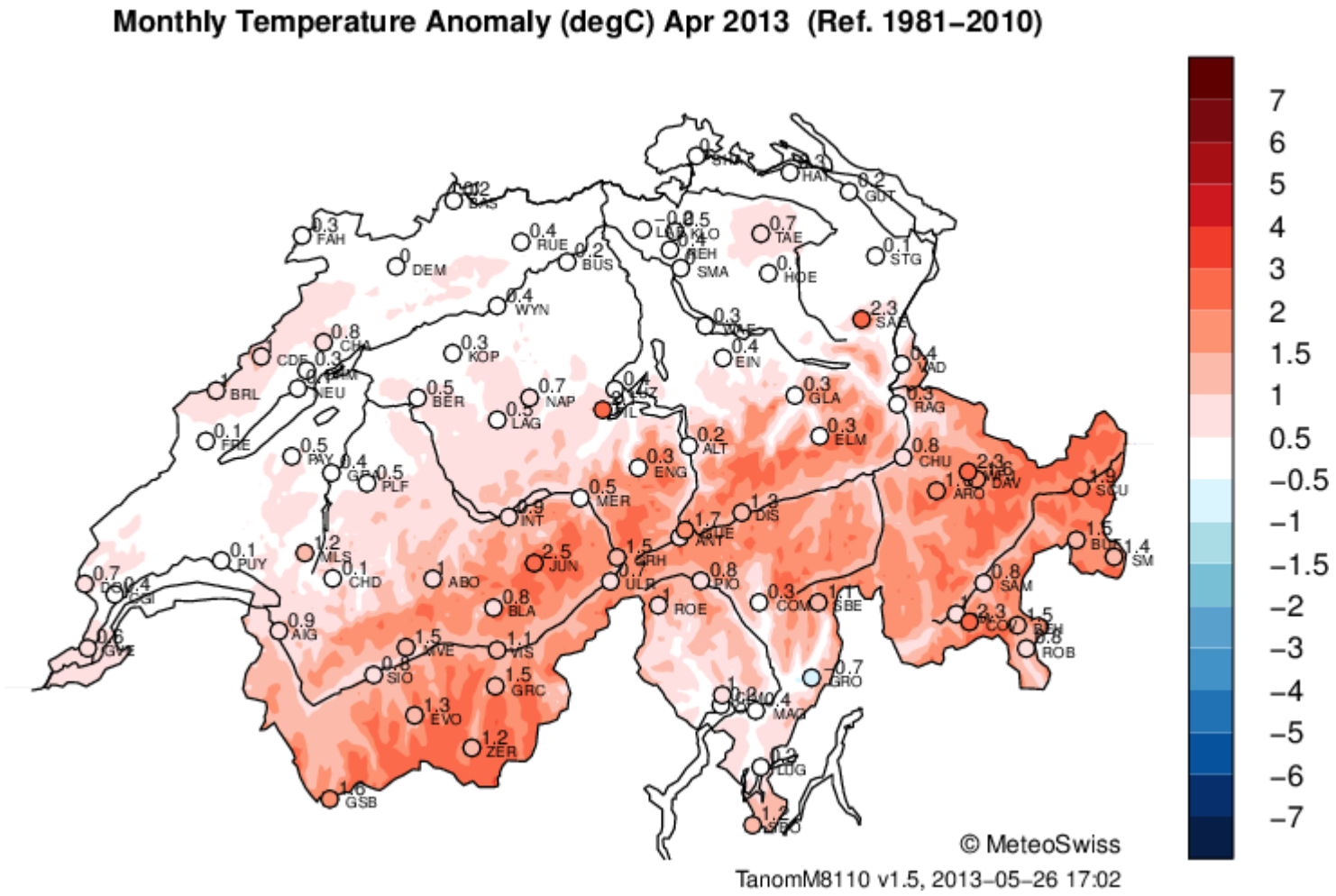
Temperatura: marzo 2013



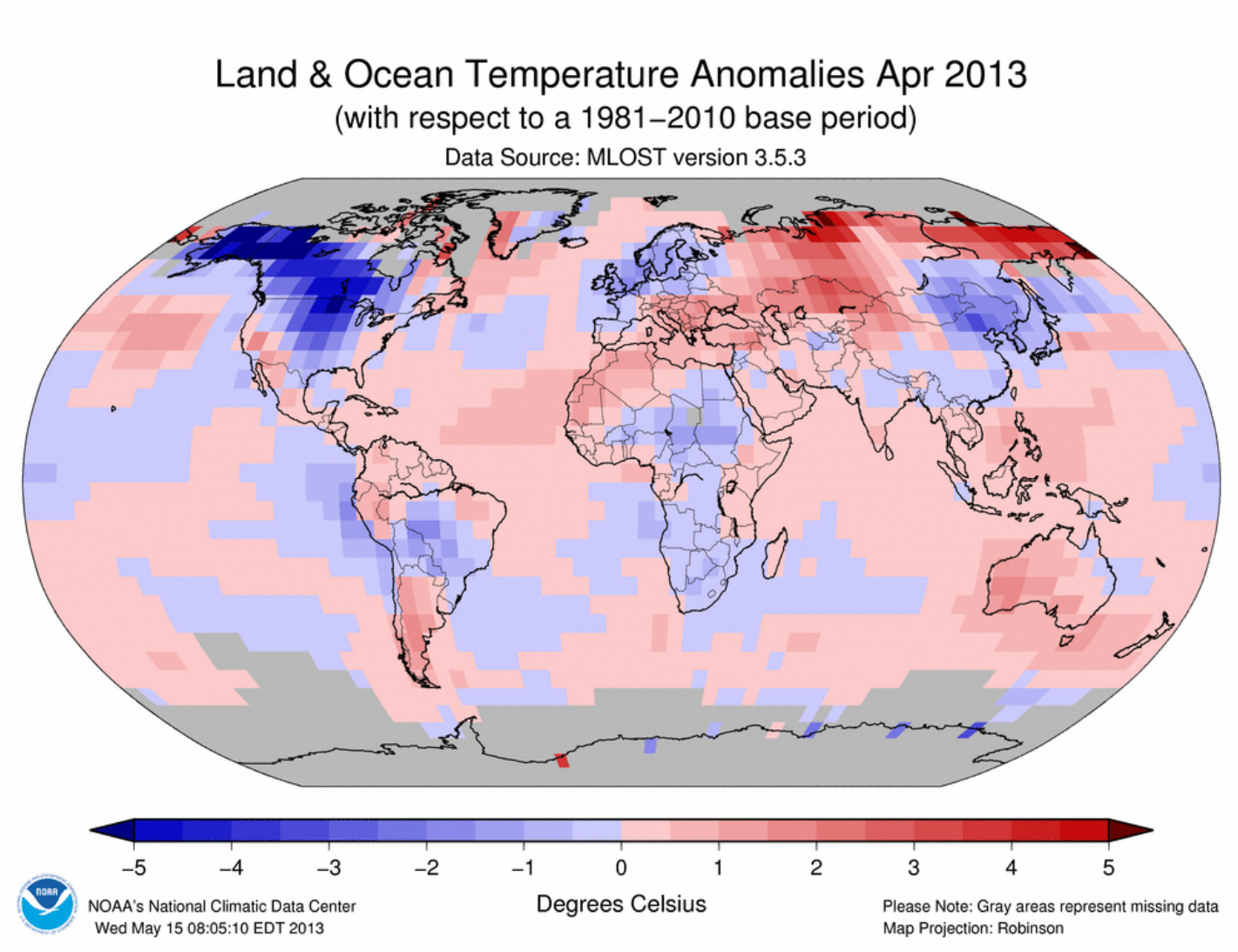
Temperatura: anomalie globali marzo 2013



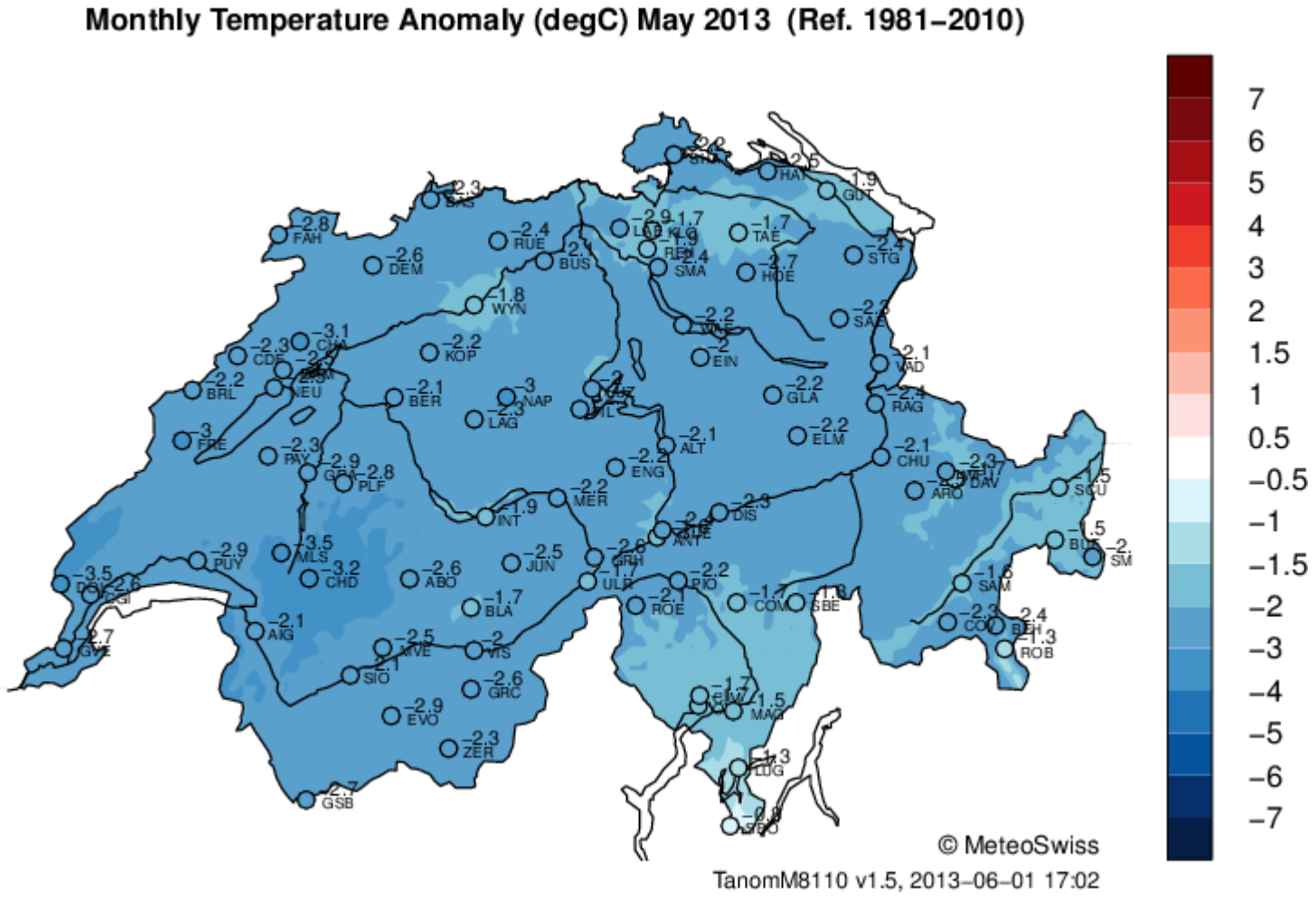
Temperatura: aprile 2013



Temperatura: anomalie globali marzo 2013

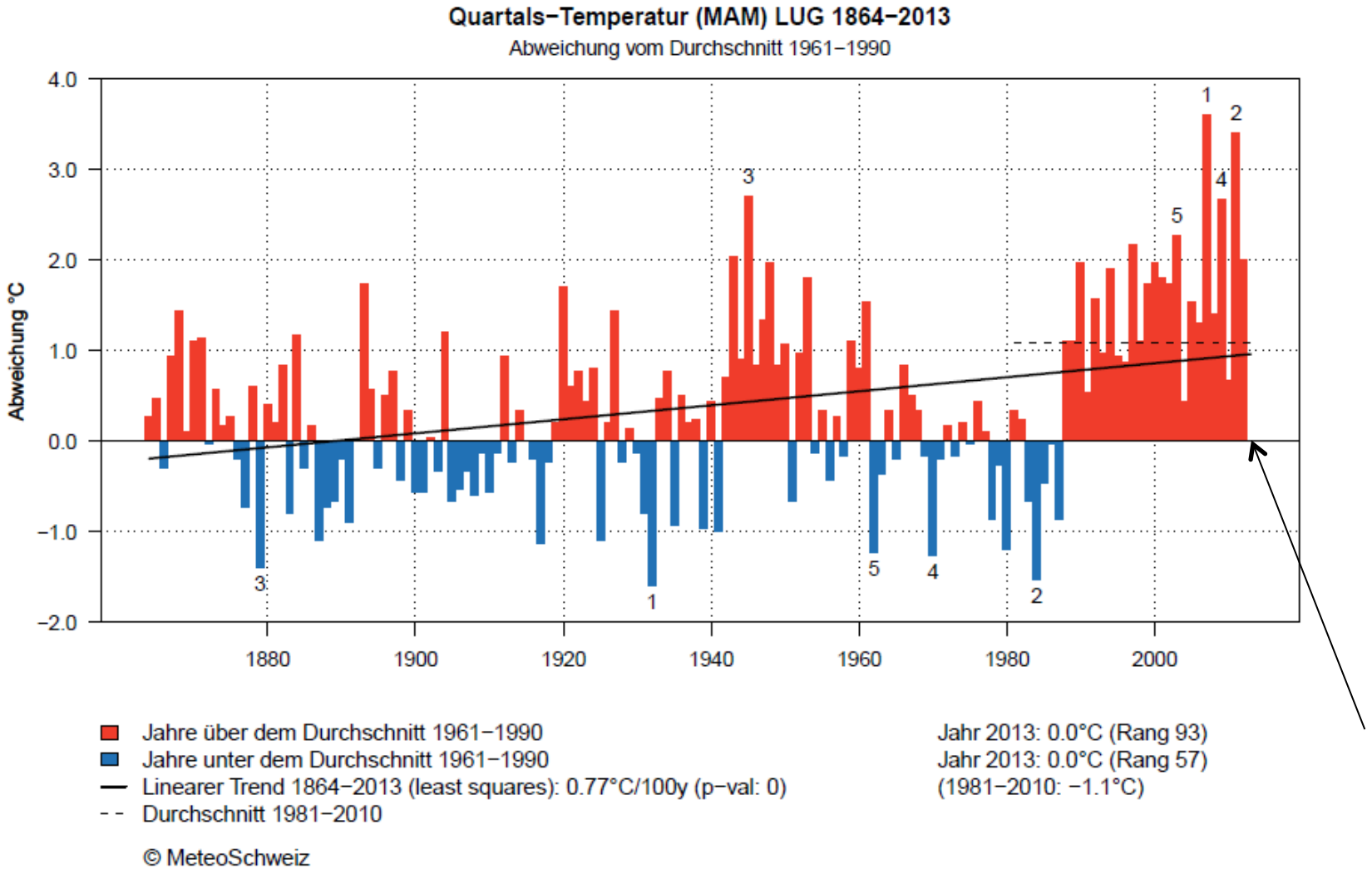


Temperatura: maggio 2013

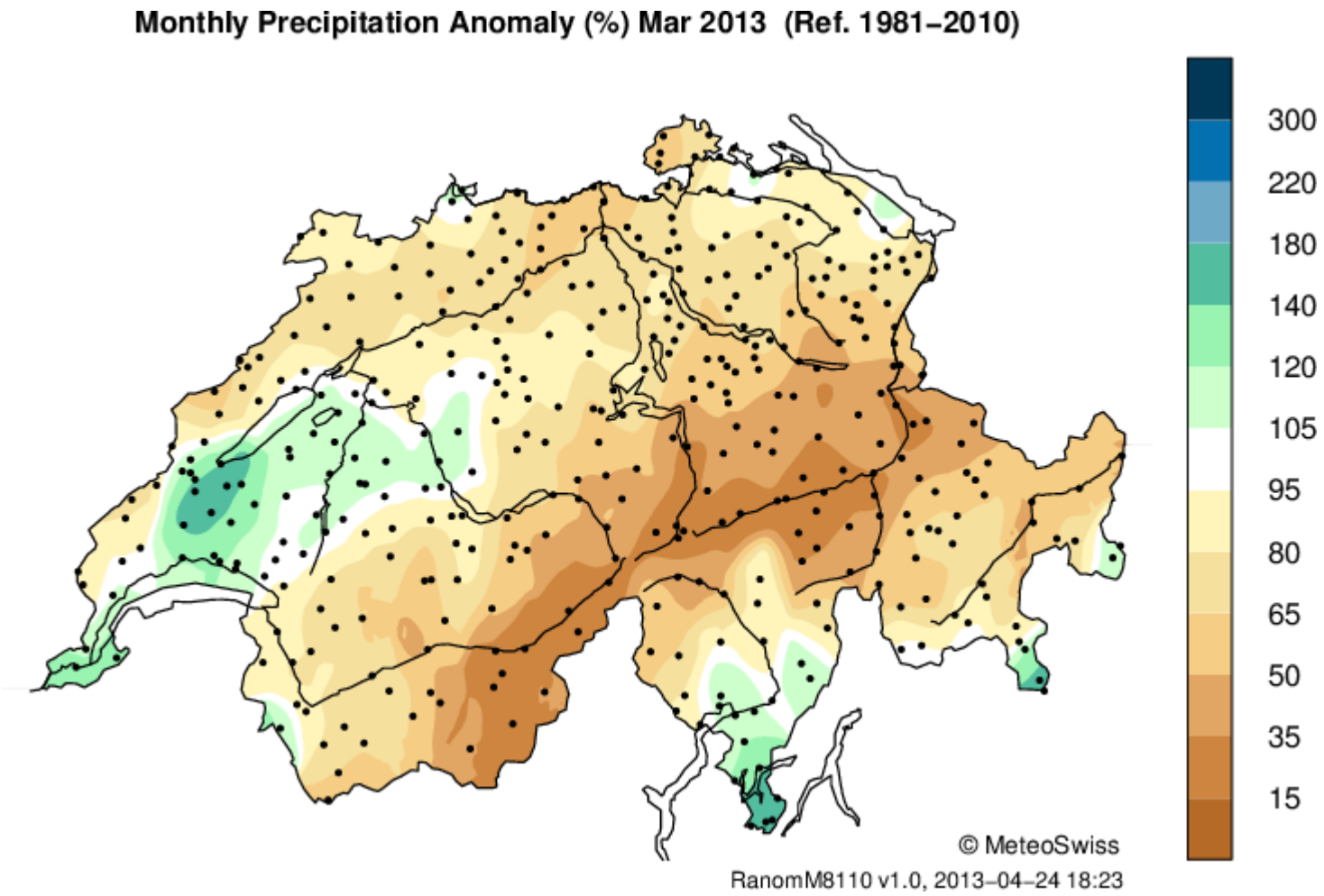


Temperatura: anomalie globali maggio 2013

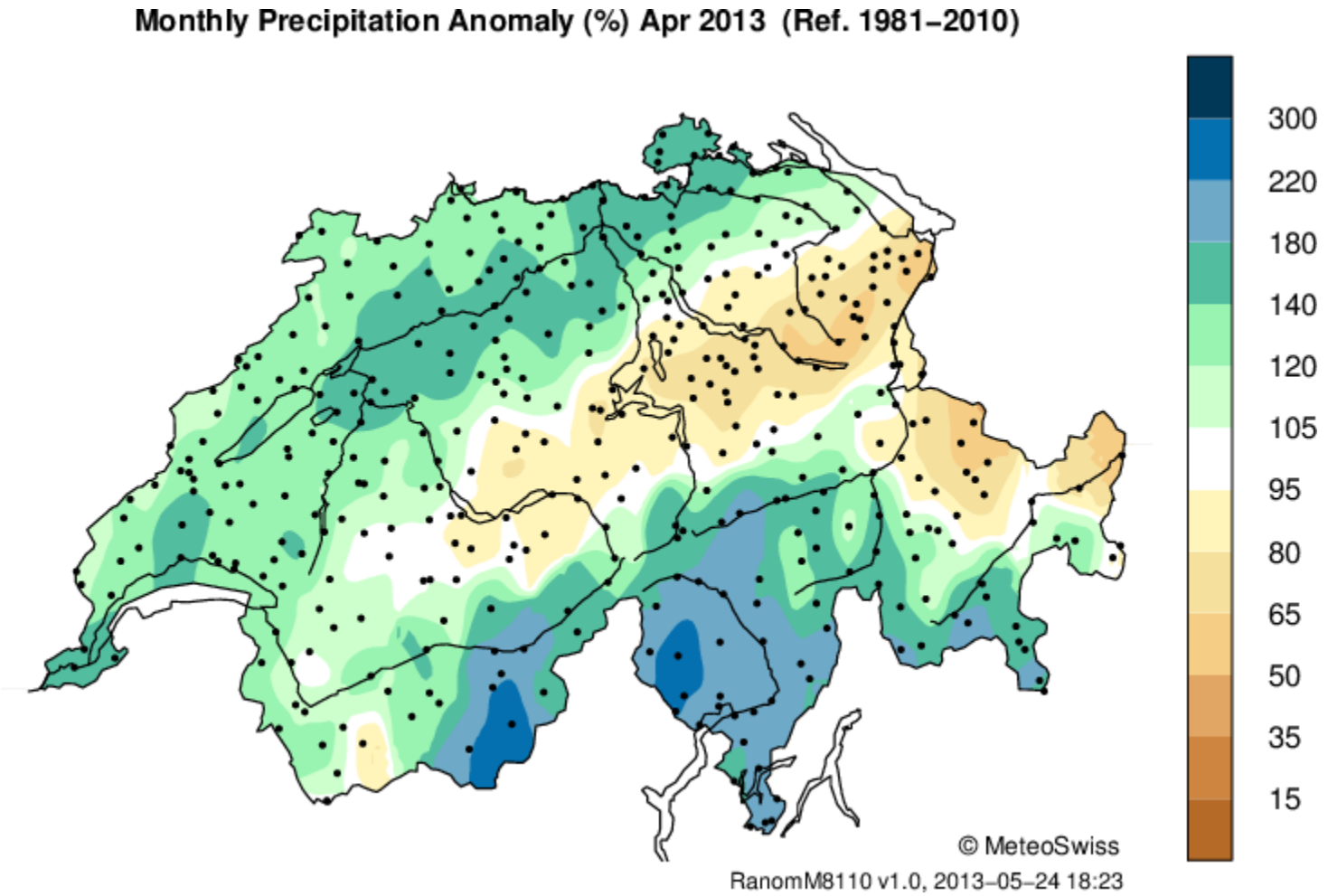
La primavera in TI 2013 rispetto alle altre



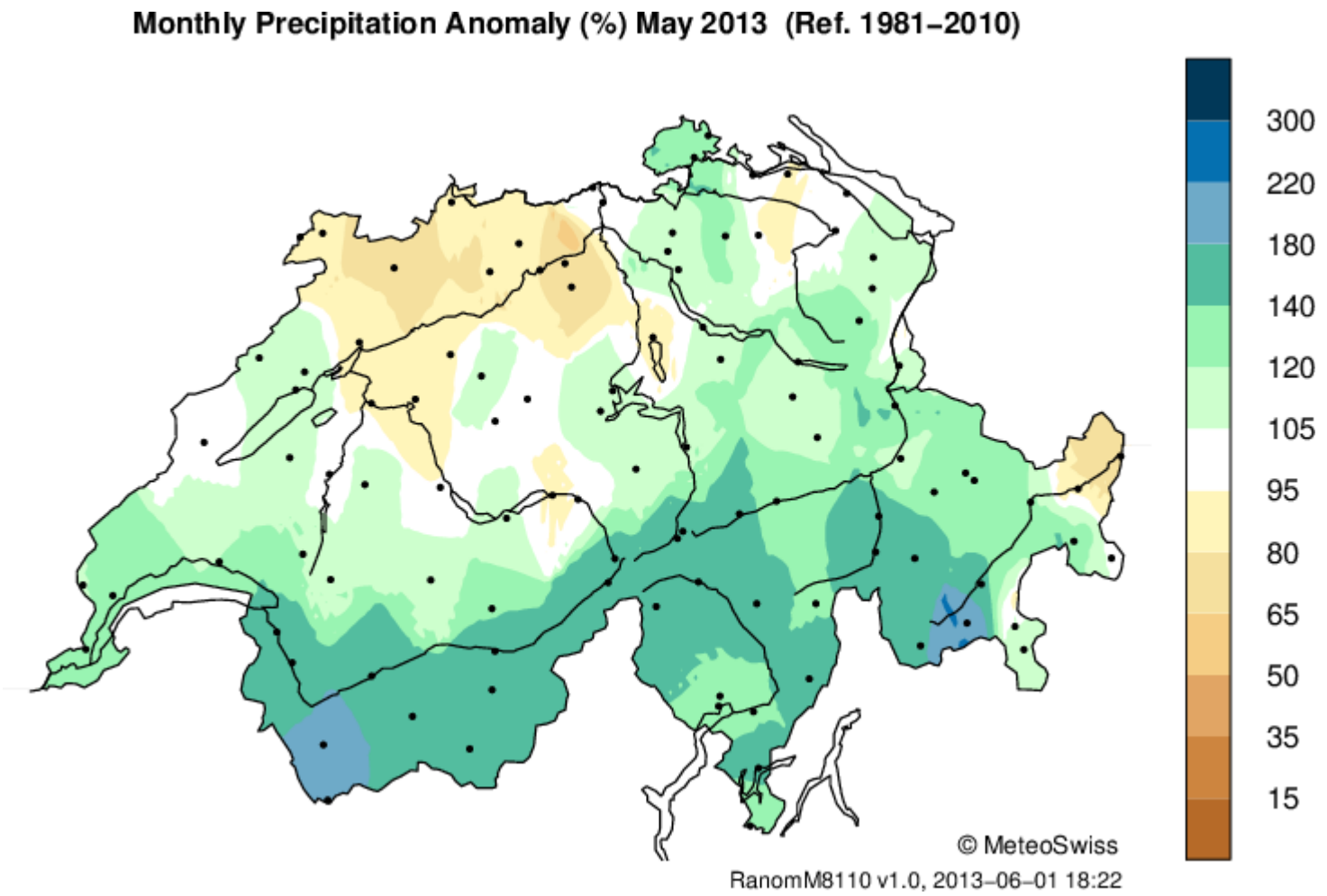
Precipitazioni: marzo 2013



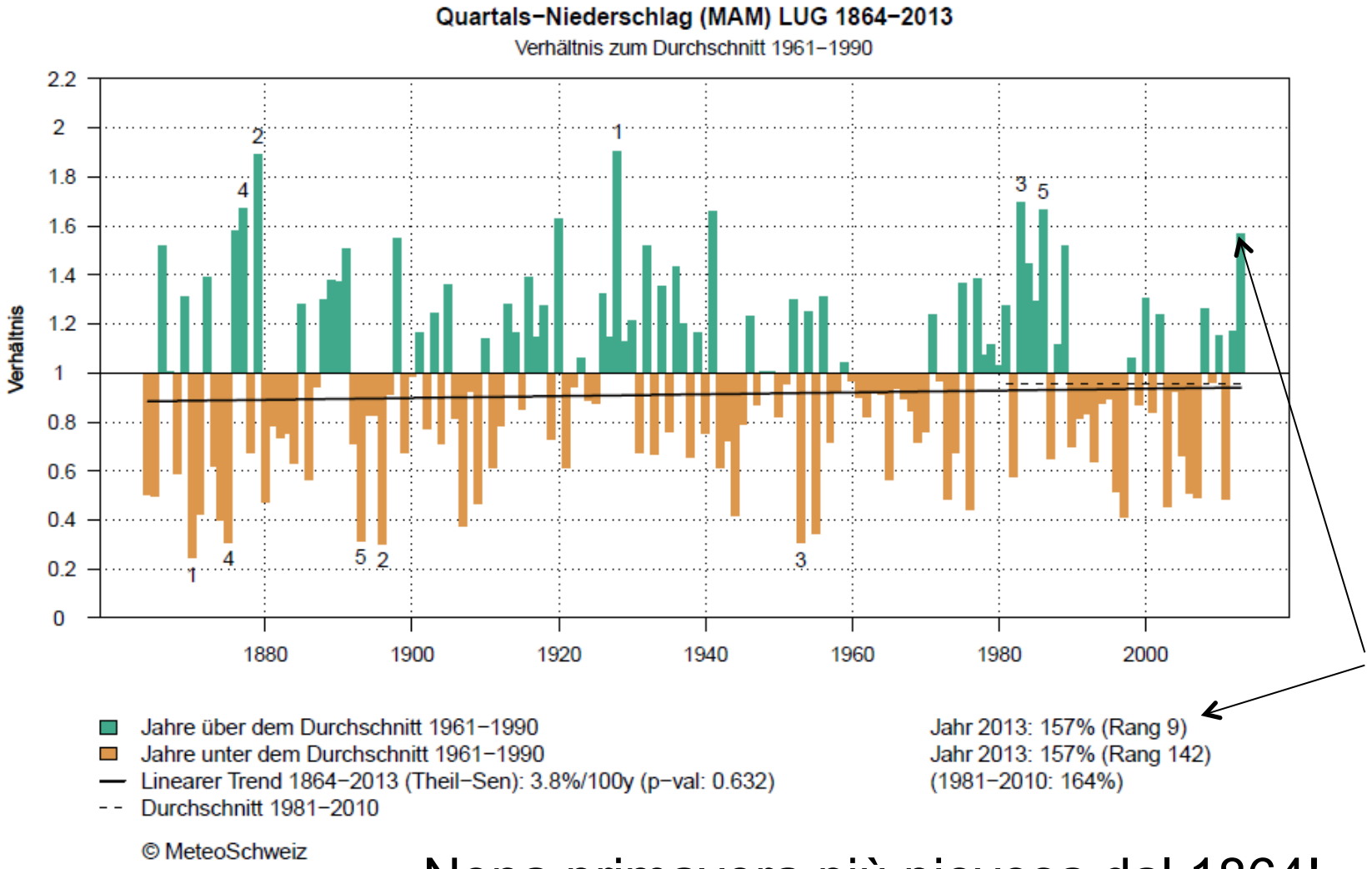
Precipitazioni: aprile 2013



Precipitazioni maggio 2013

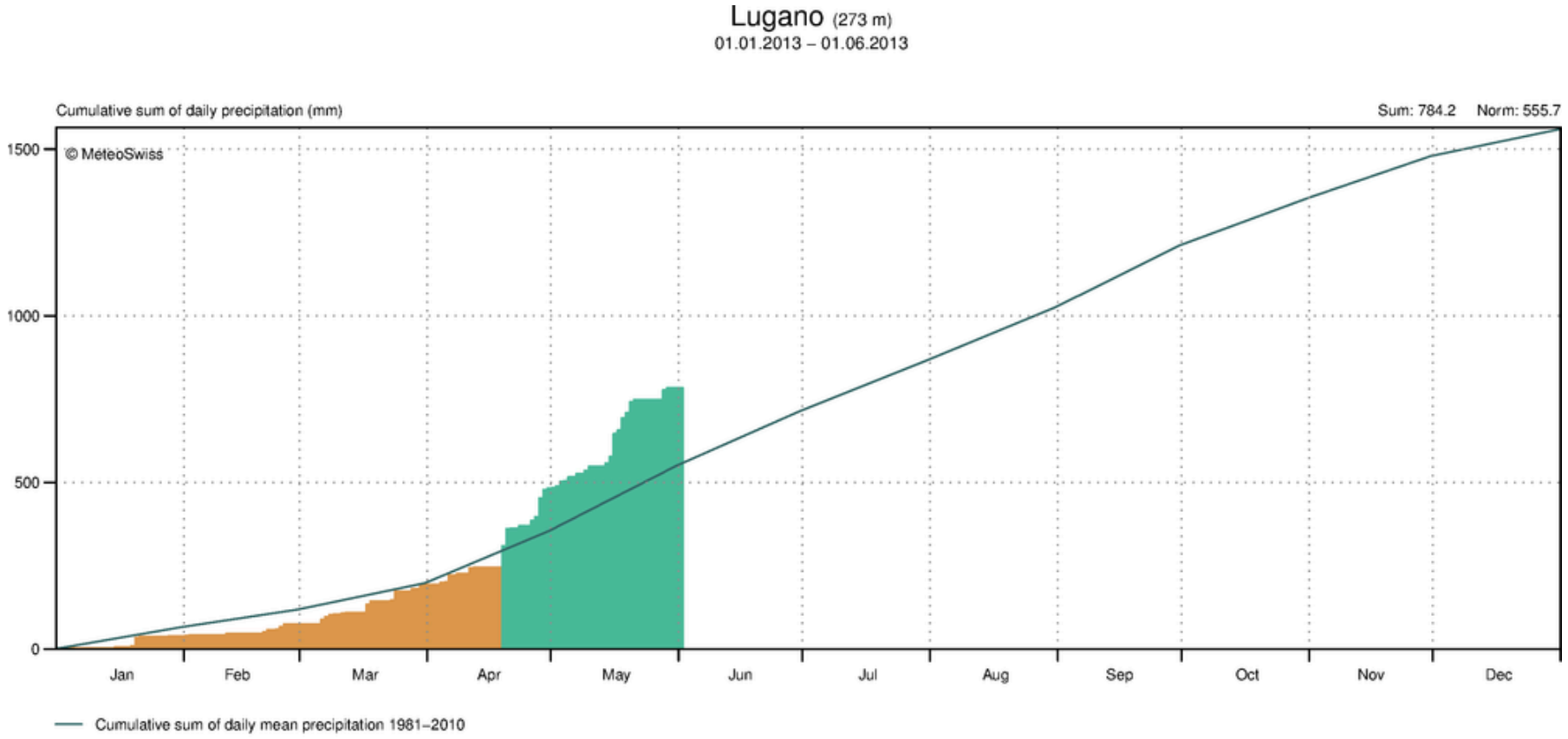


La primavera 2013 rispetto alle altre



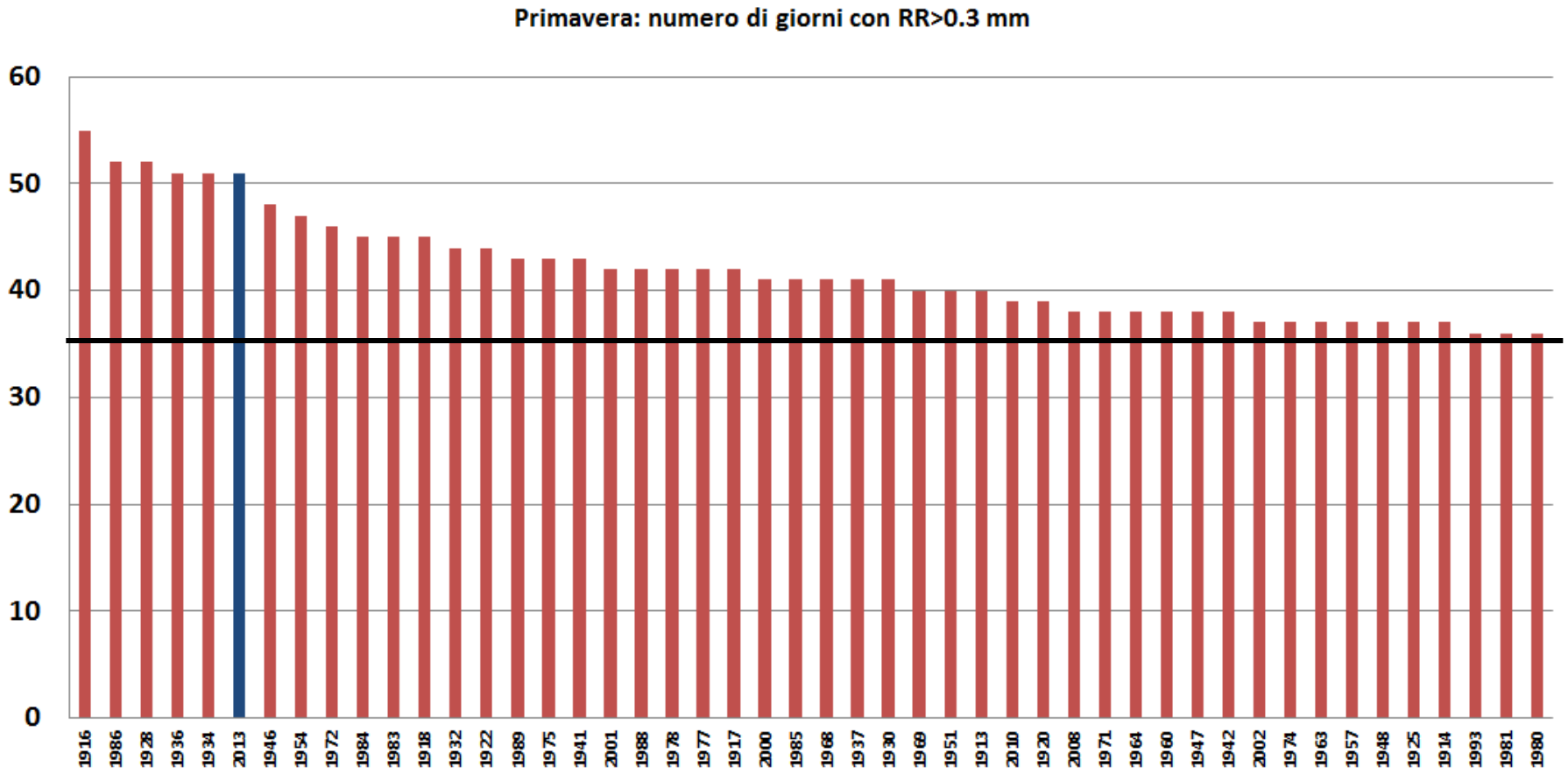
Nona primavera più piovosa dal 1864!
La più piovosa dal 1986!

Somma precipitazioni 2013



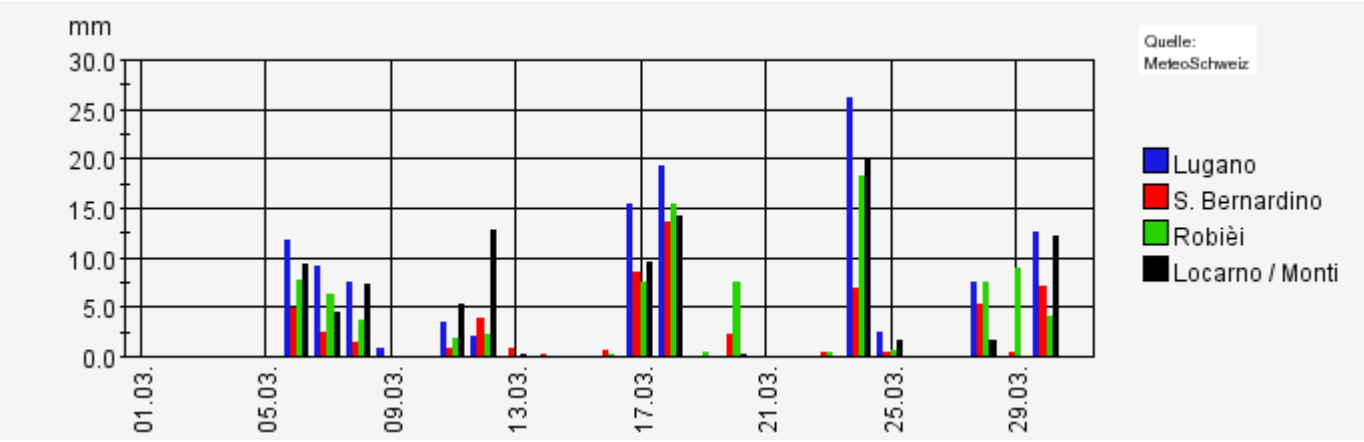
Status: 02.06.2013

Giorni di pioggia

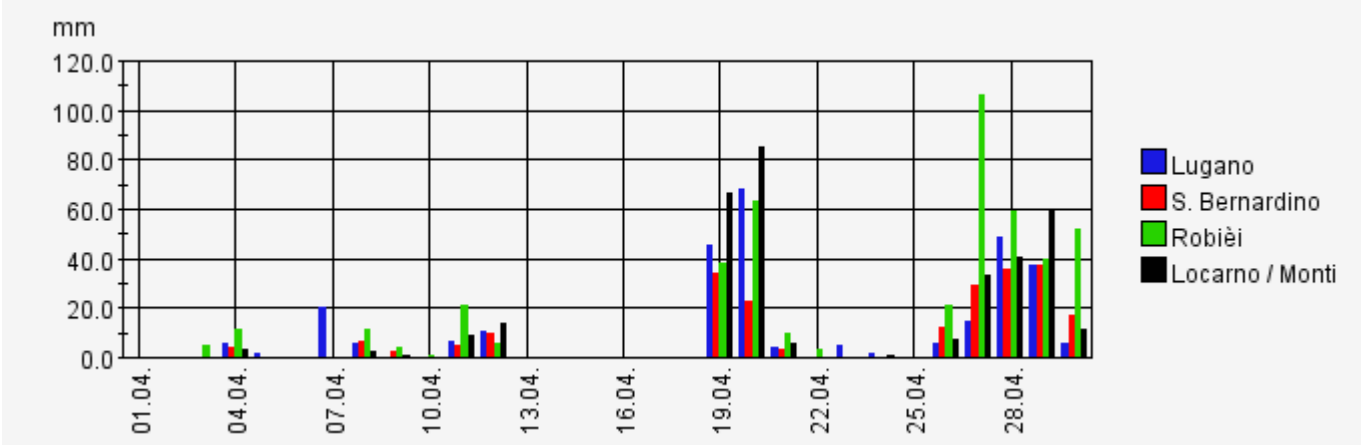


51 giorni: quarta primavera per giorni con pioggia!

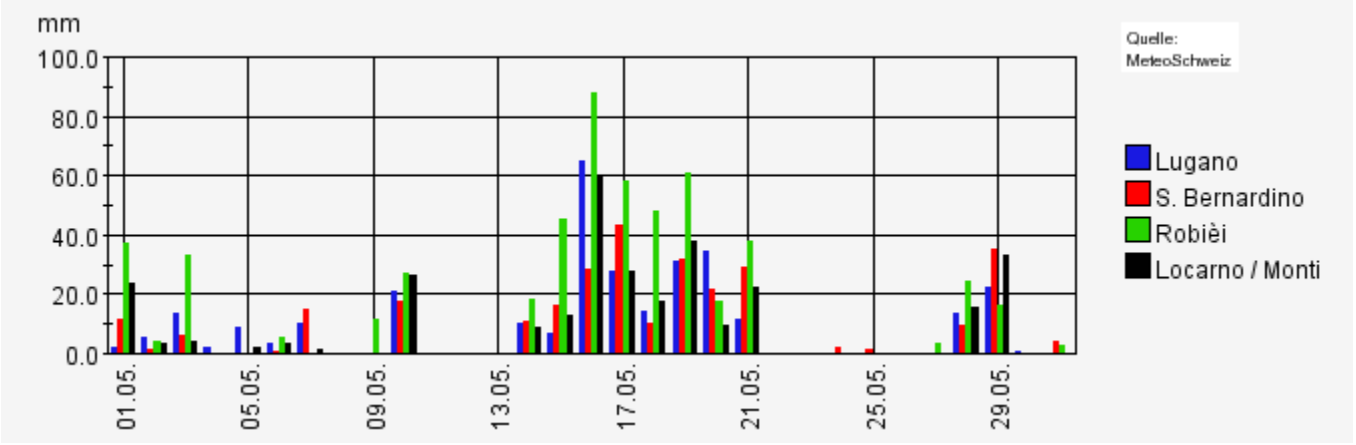
marzo



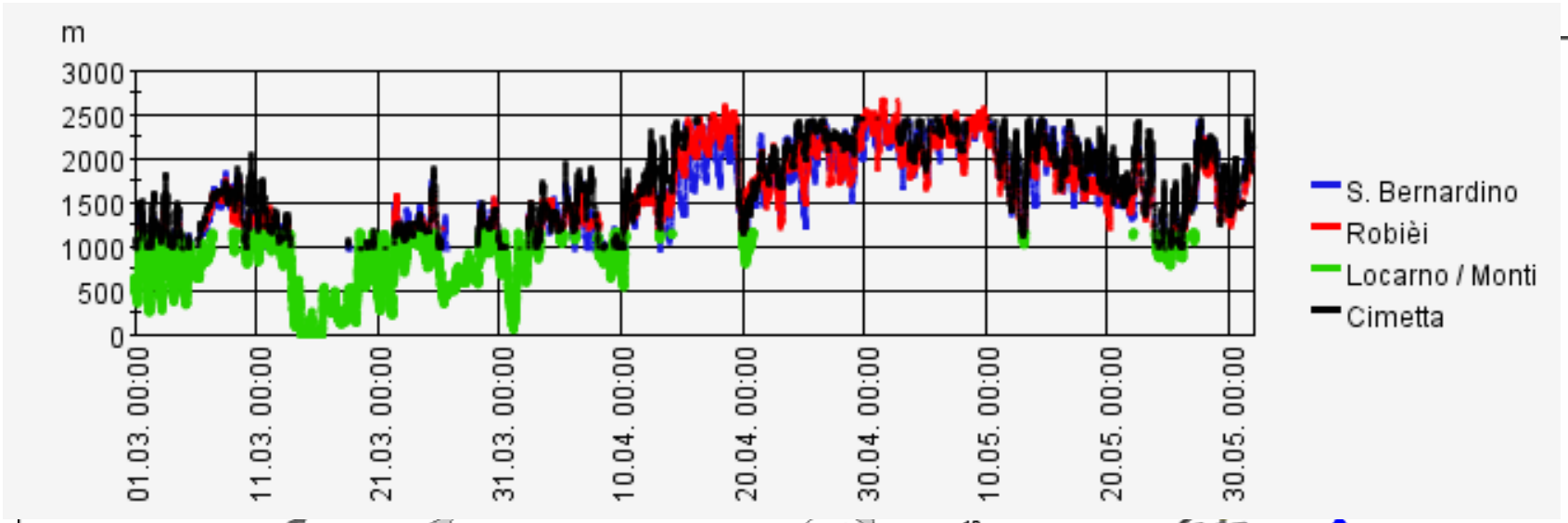
aprile

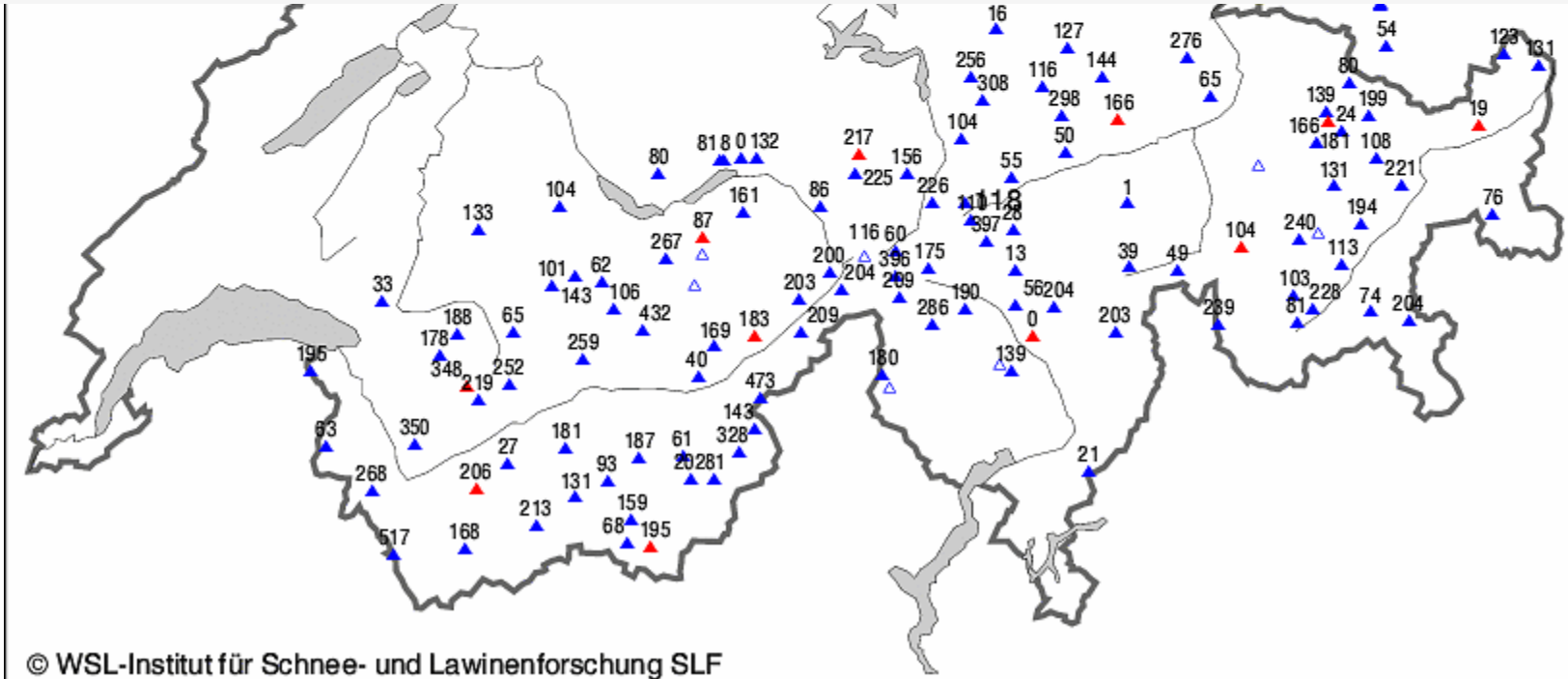


maggio



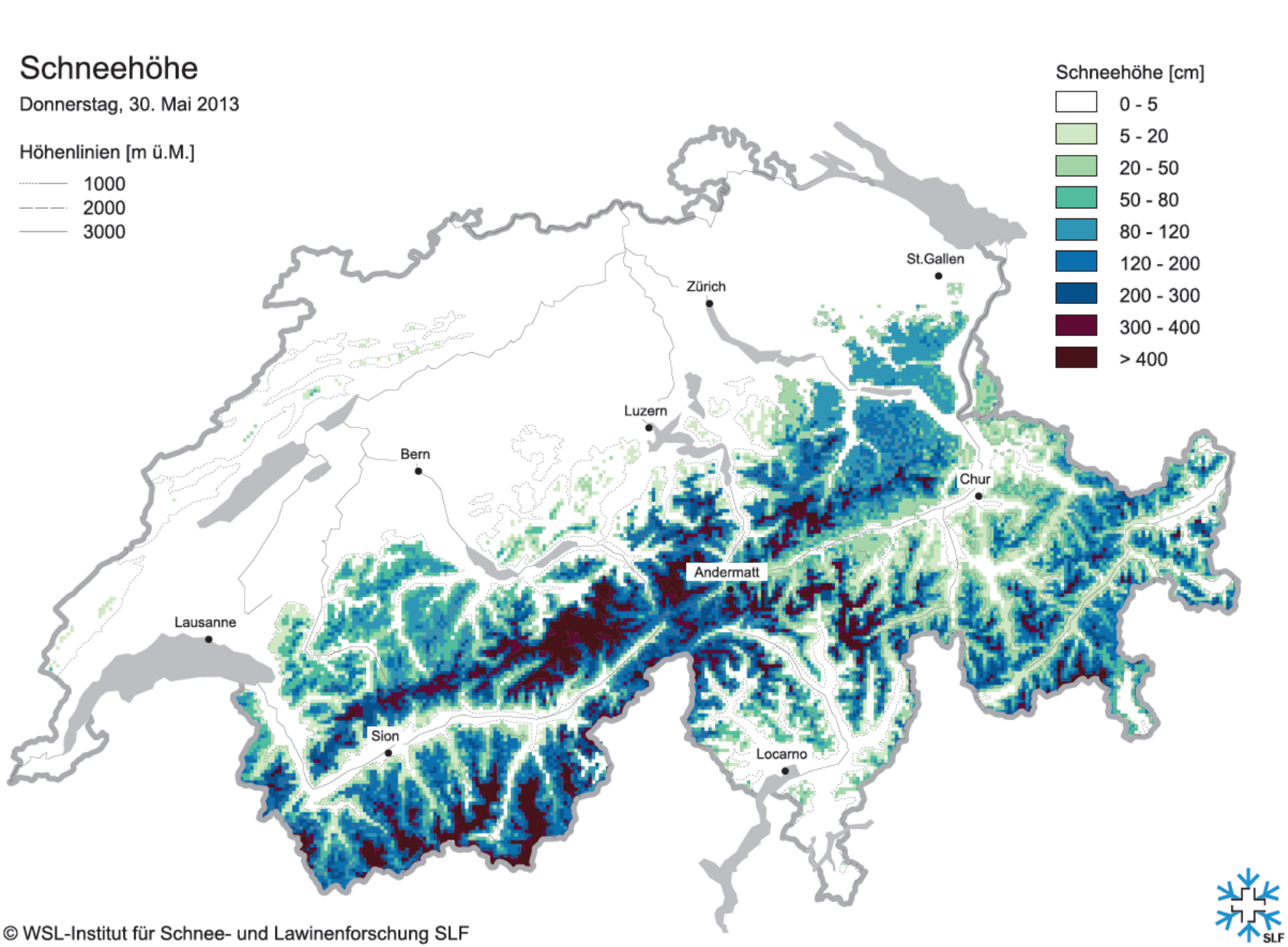
Limite delle nevicate e neve a fine maggio



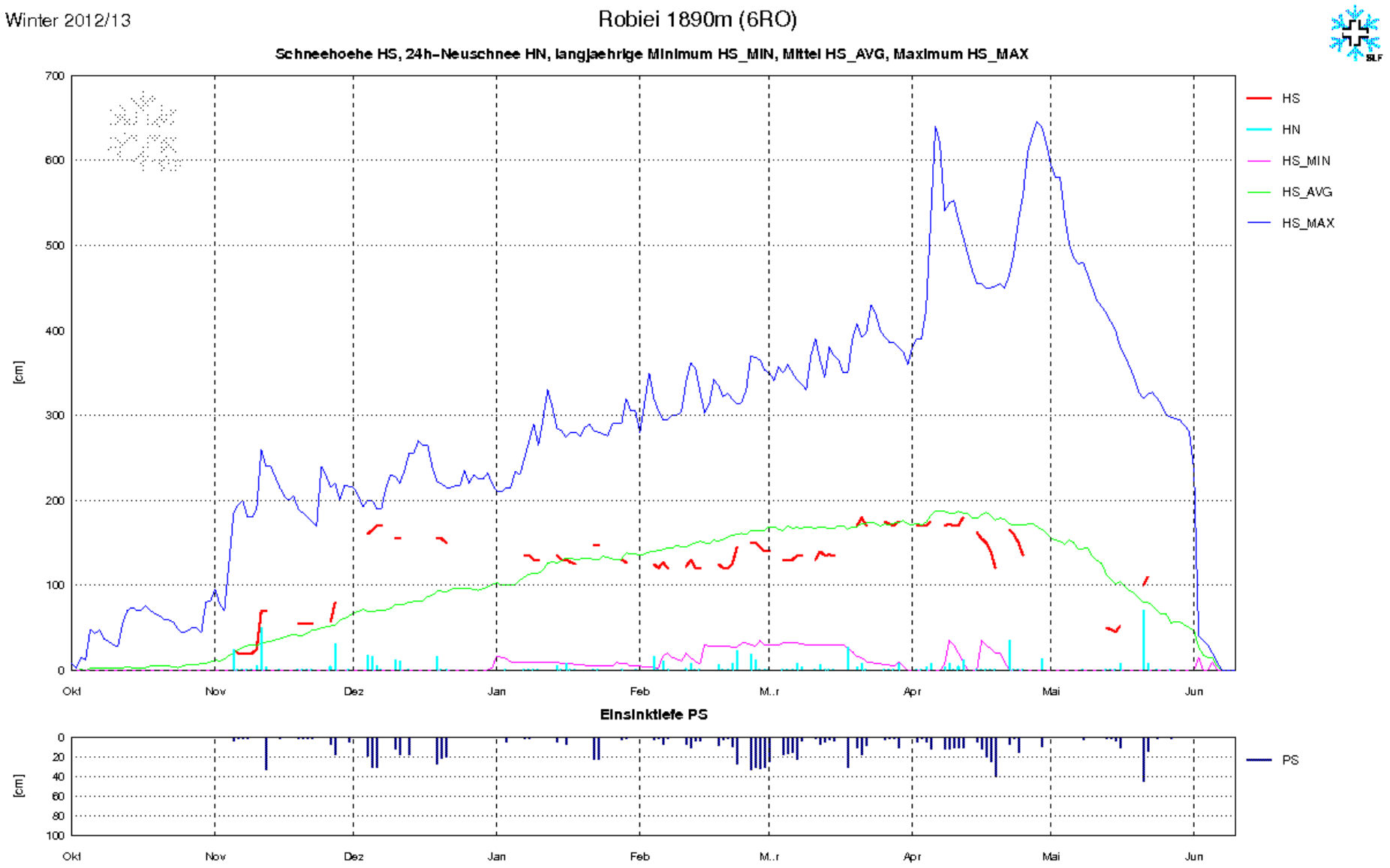


Schneehöhe

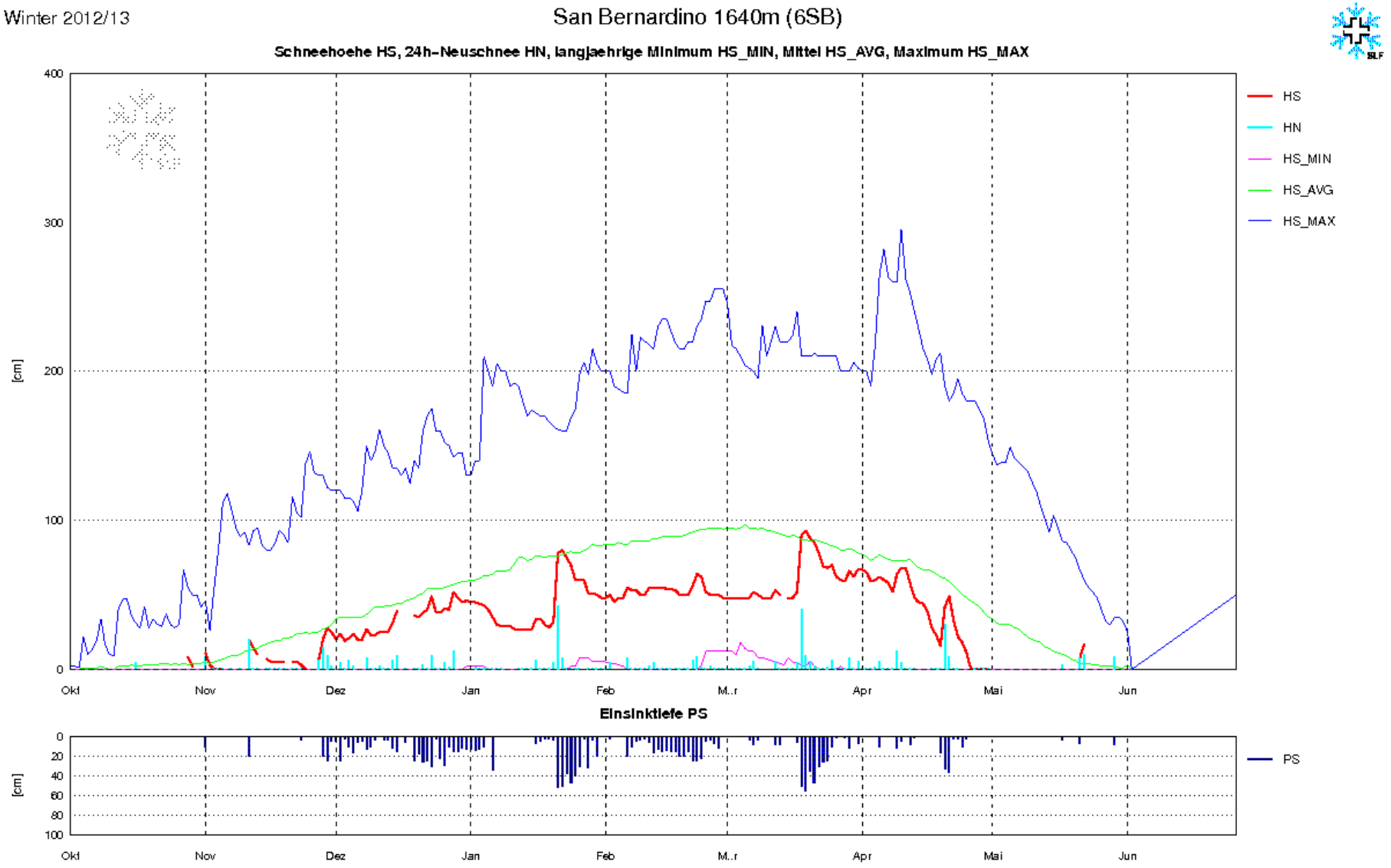
Donnerstag, 30. Mai 2013



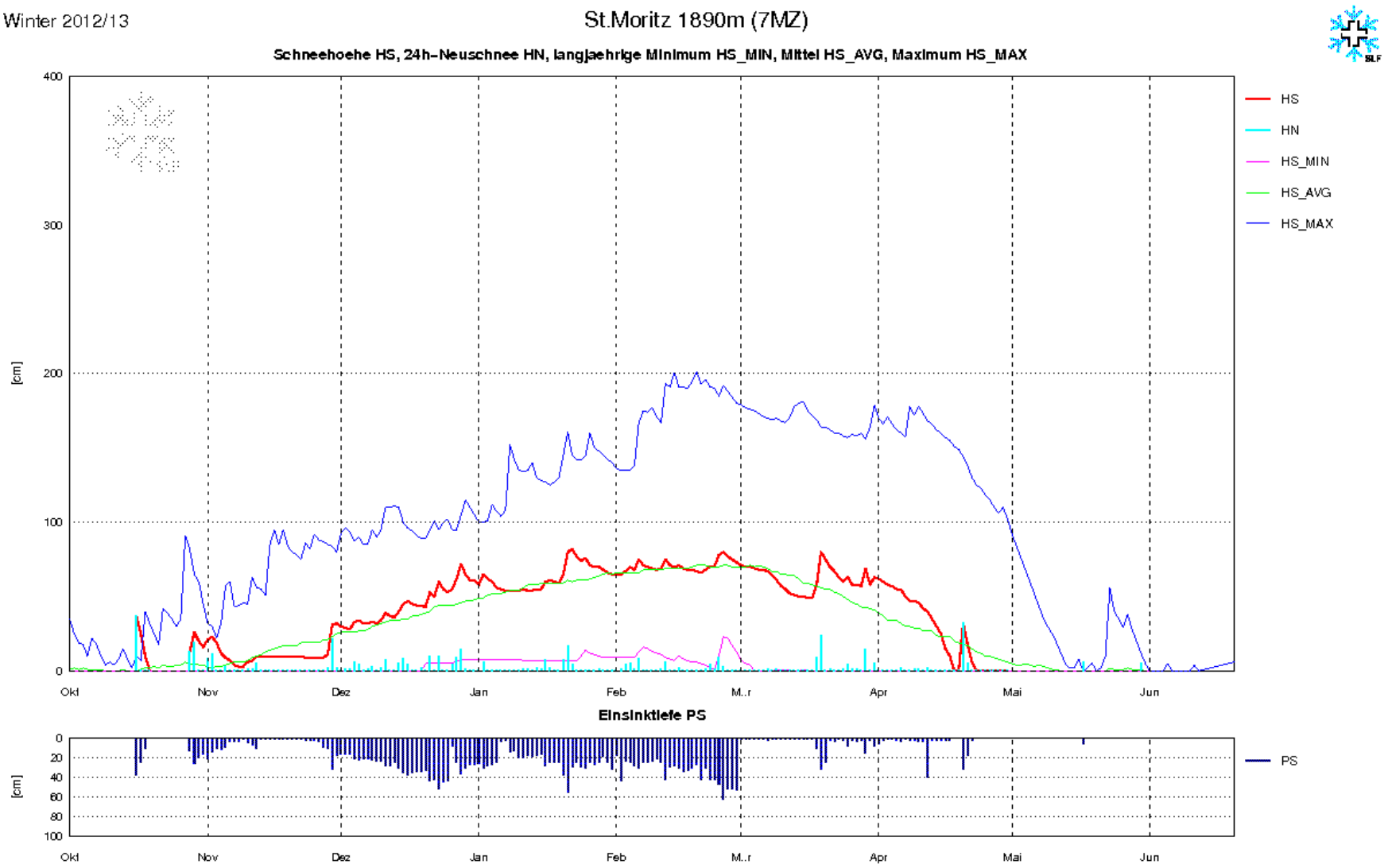
Neve Robiei


Winter 2012/13
Robiei 1890m (6RO)
Schneehoehe HS, 24h-Neuschnee HN, langjaehrige Minimum HS_MIN, Mittel HS_AVG, Maximum HS_MAX
[cm]
700
600
500
400
300
200
100
0
Okt
Nov
Dez
Jan
Feb
M..r
Apr
Mai
Jun
HS
HN
HS_MIN
HS_AVG
HS_MAX
Einsinktiefe PS
[cm]
0
20
40
60
80
100
PS

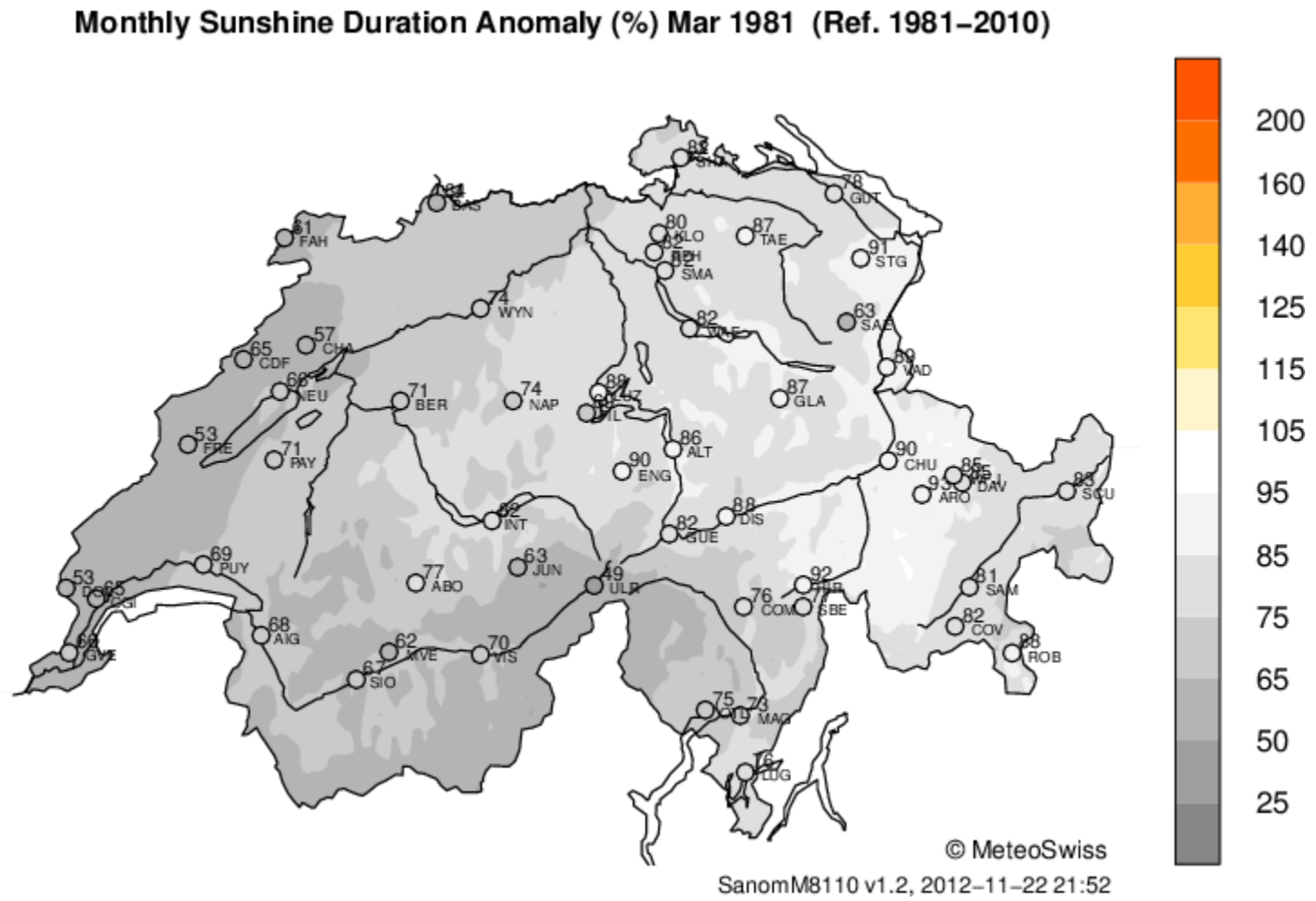
Neve San Bernardino



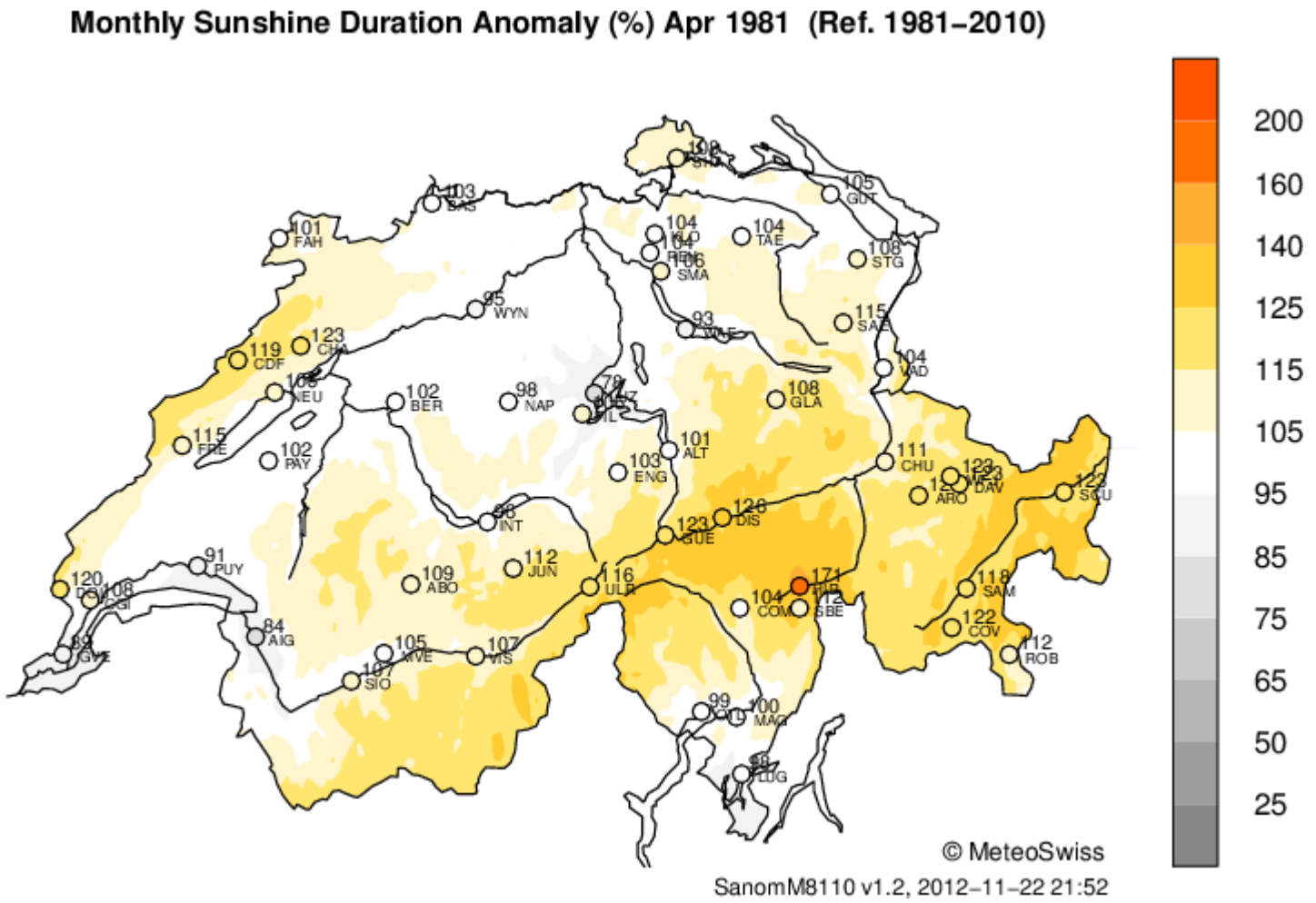
Neve St Moritz



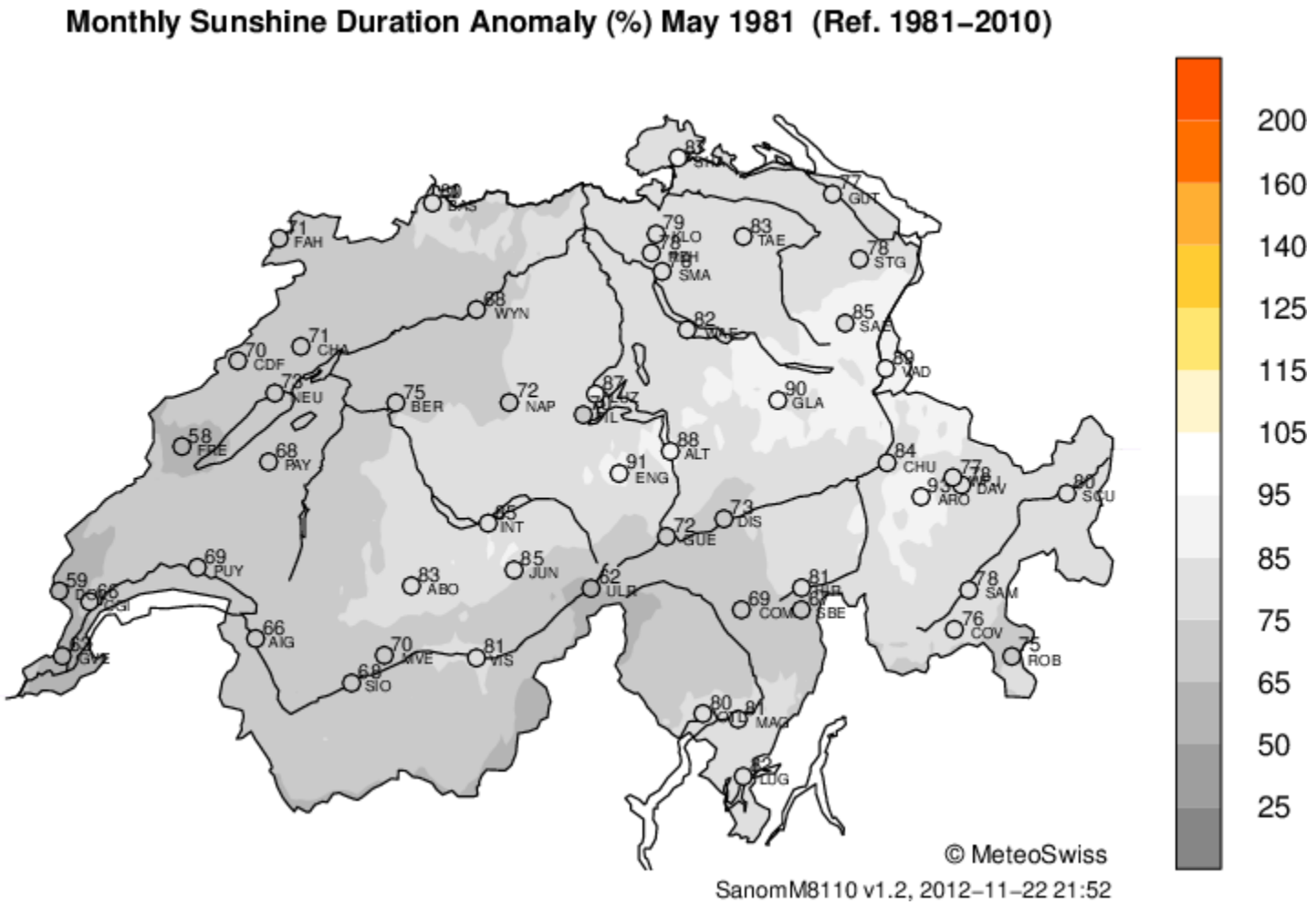
Soleggiamento: anomalia marzo 2013



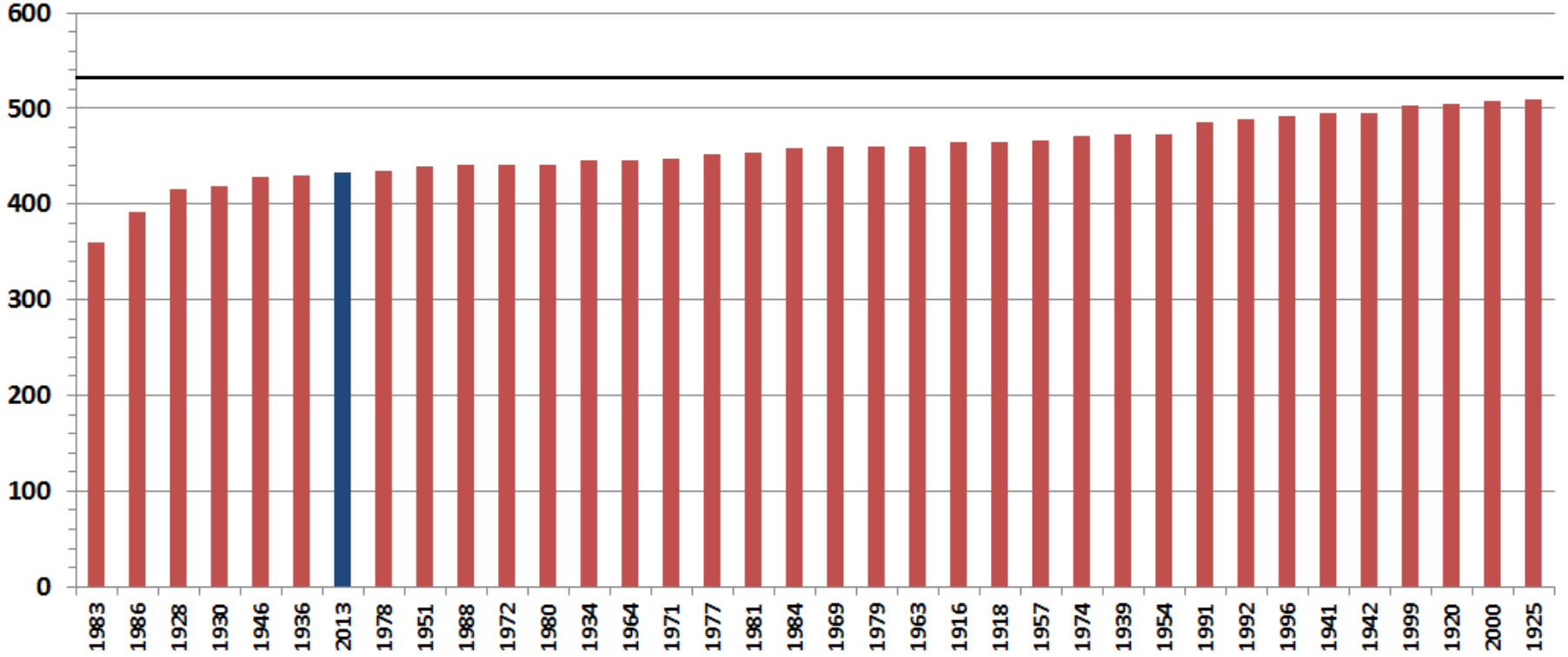
Soleggiamento: anomalia aprile 2013



Soleggiamento: anomalia maggio 2013

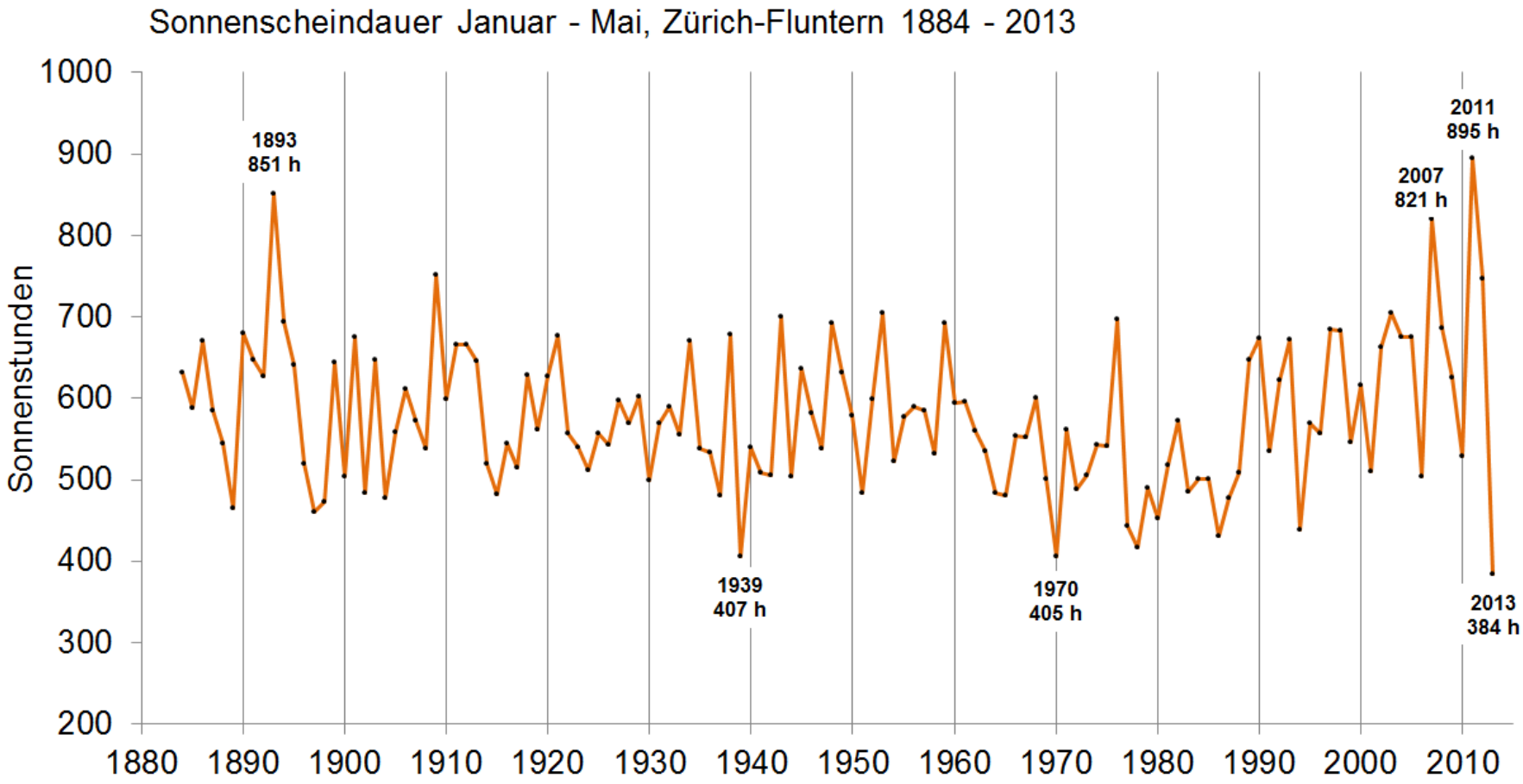


Ore di sole a Lugano

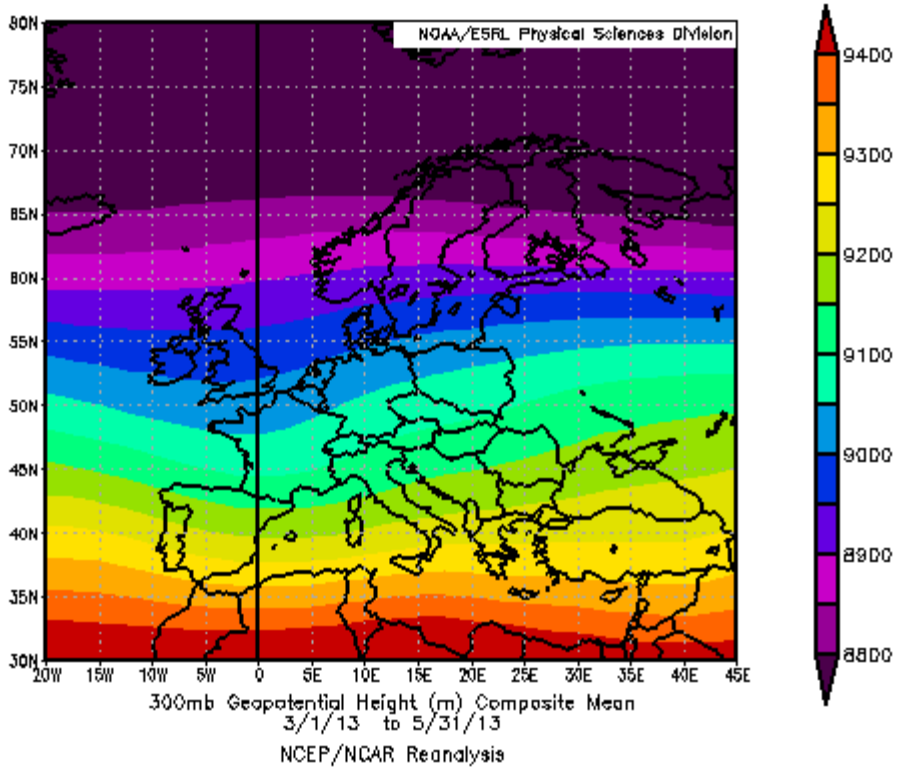


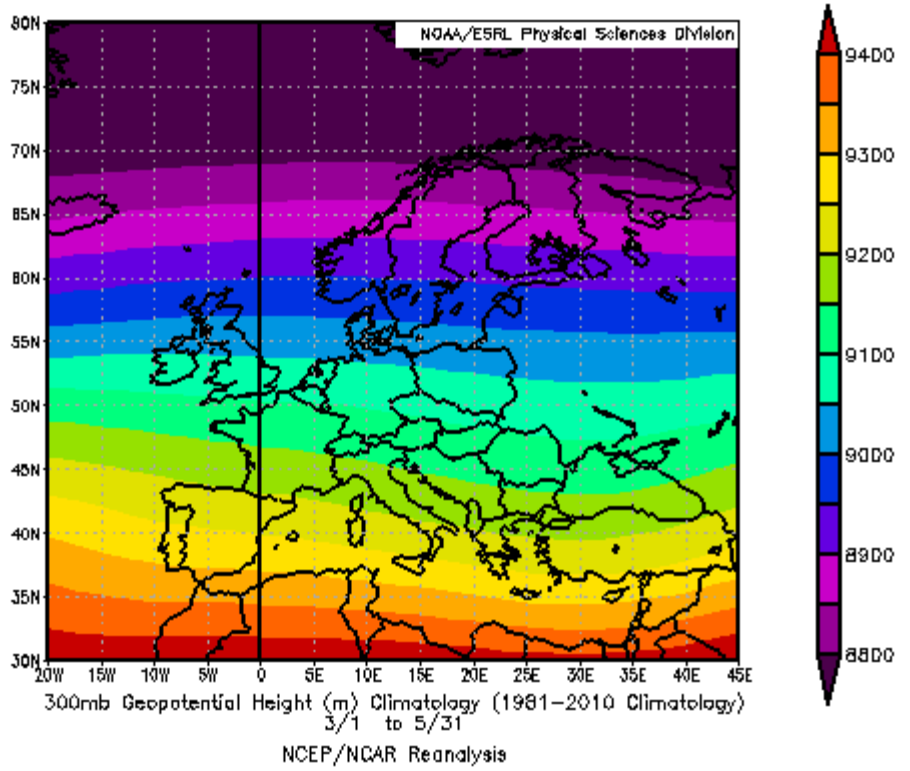
Settima primavera con meno sole dal 1914!

Il peggiore al nord delle Alpi



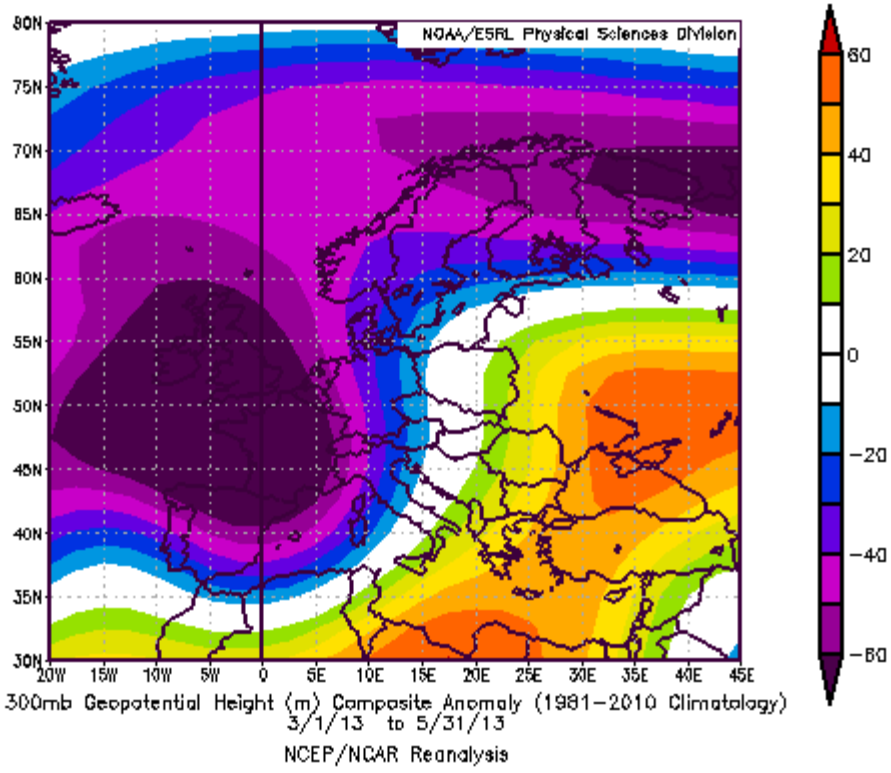
h@300hPa: 2013 vs. media



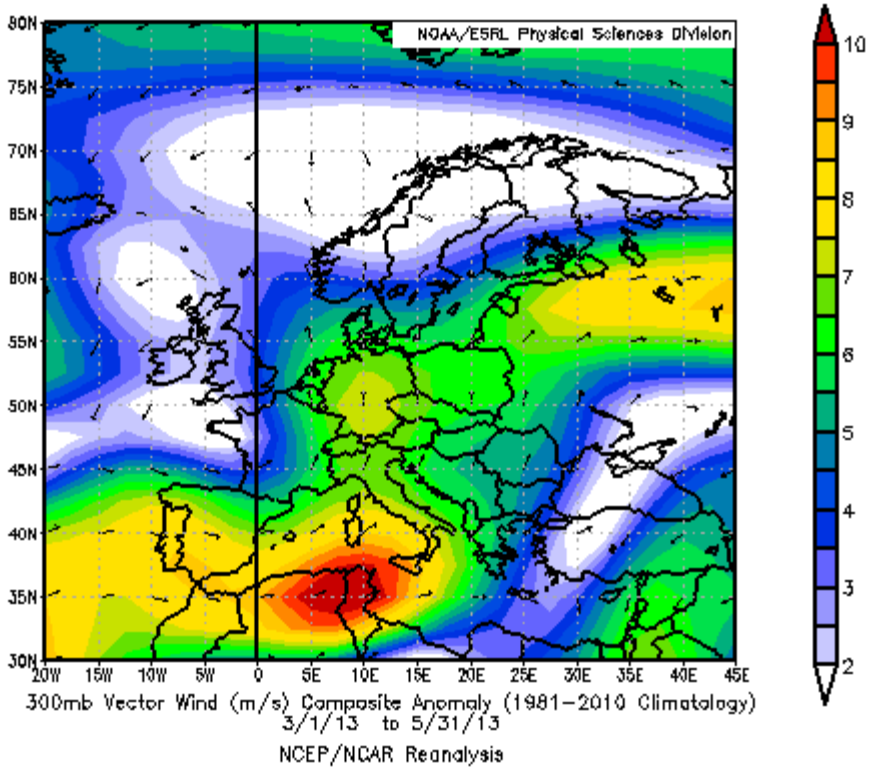


2013 anomalie

h@300hPa

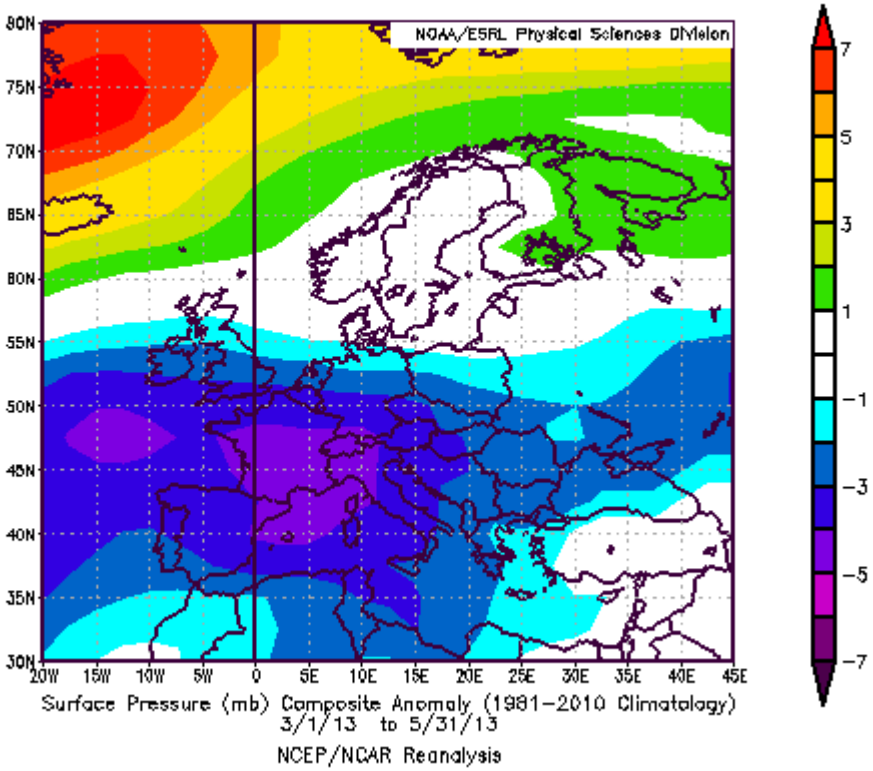


FF@300hPa

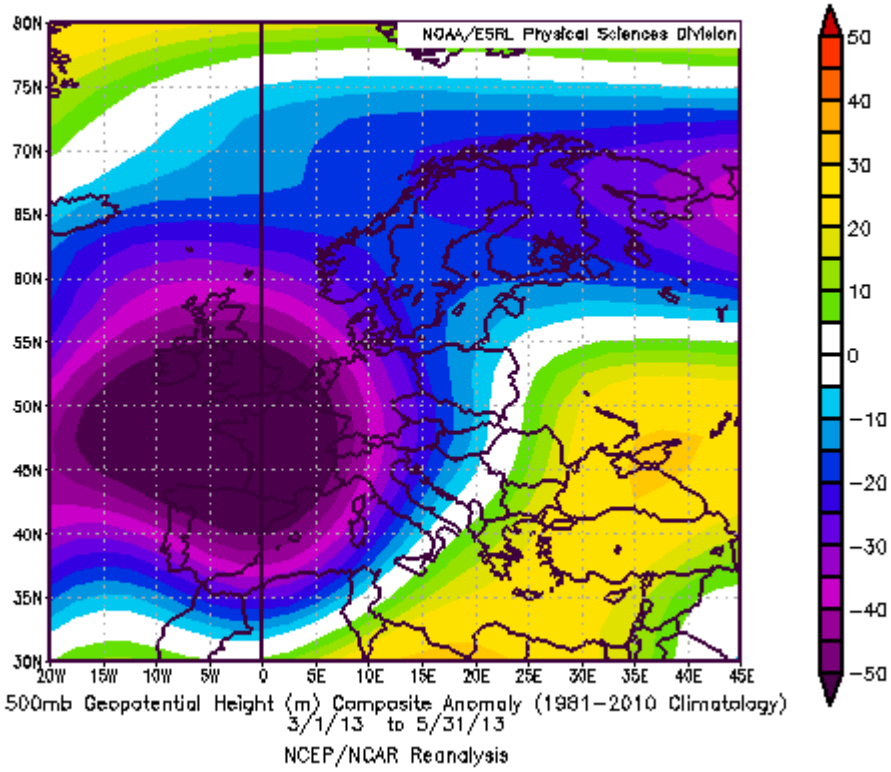


Anomalie primavera 2013

pressione al suolo hPa

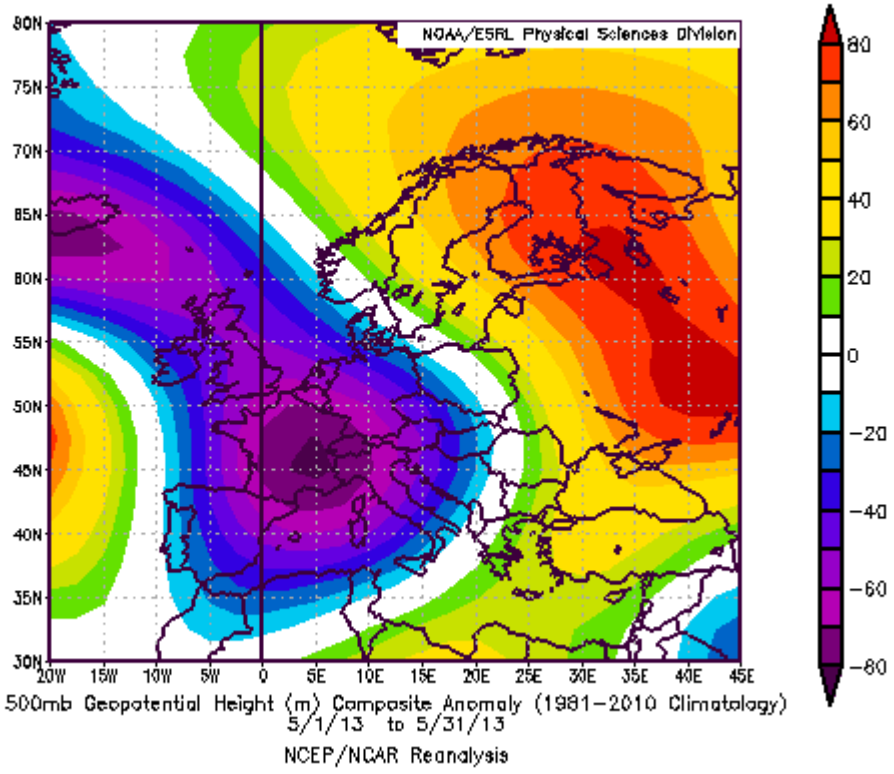


h@500hPa

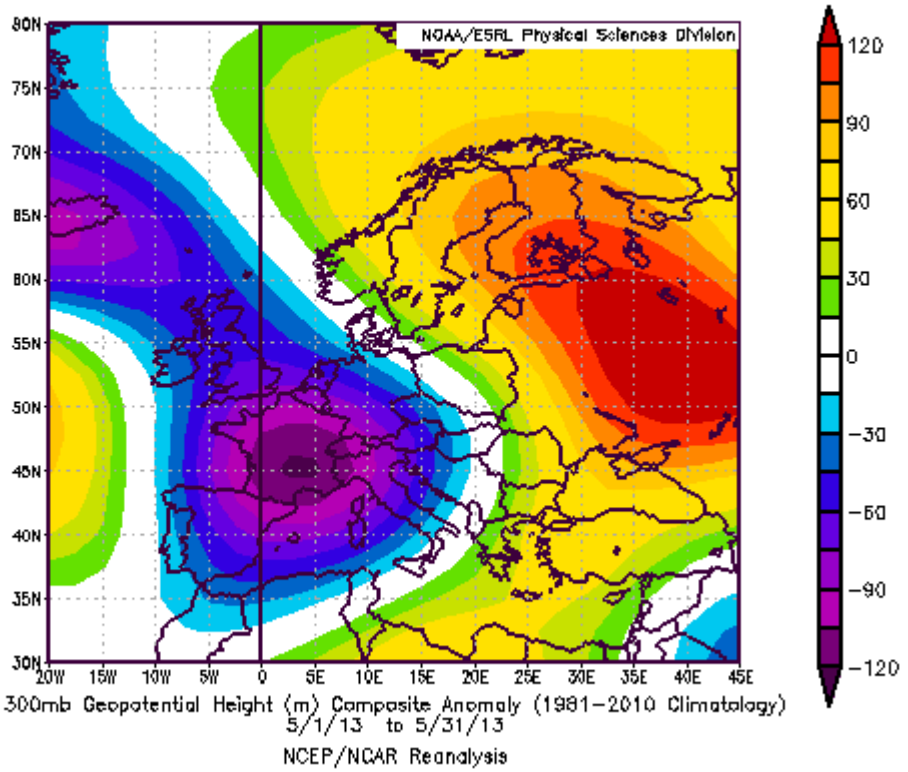


Anomalie maggio 2013

h@500hPa

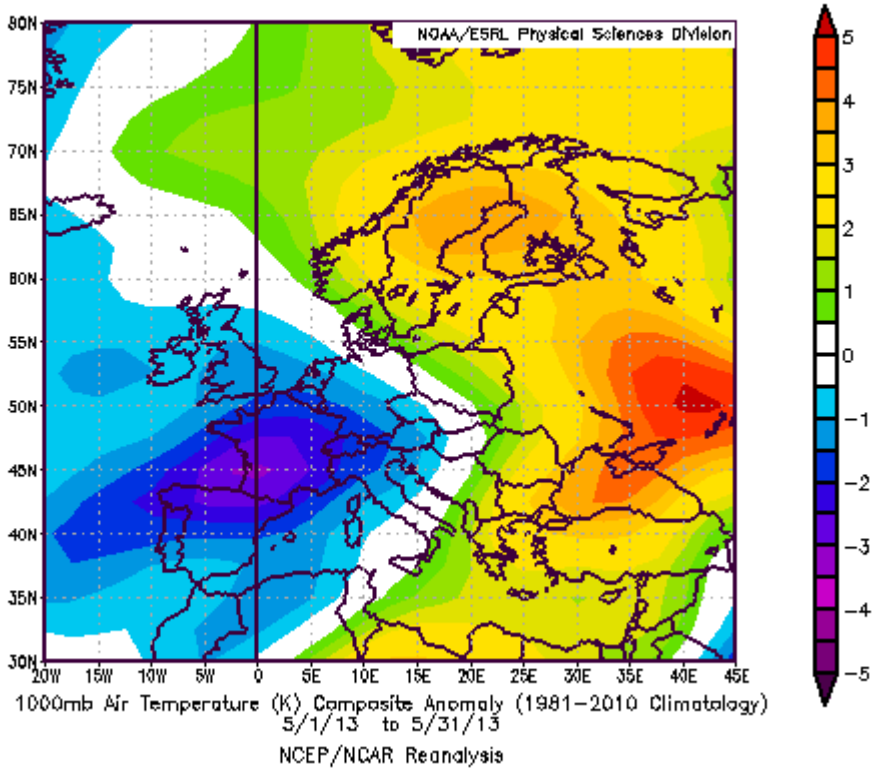


h@300hPa

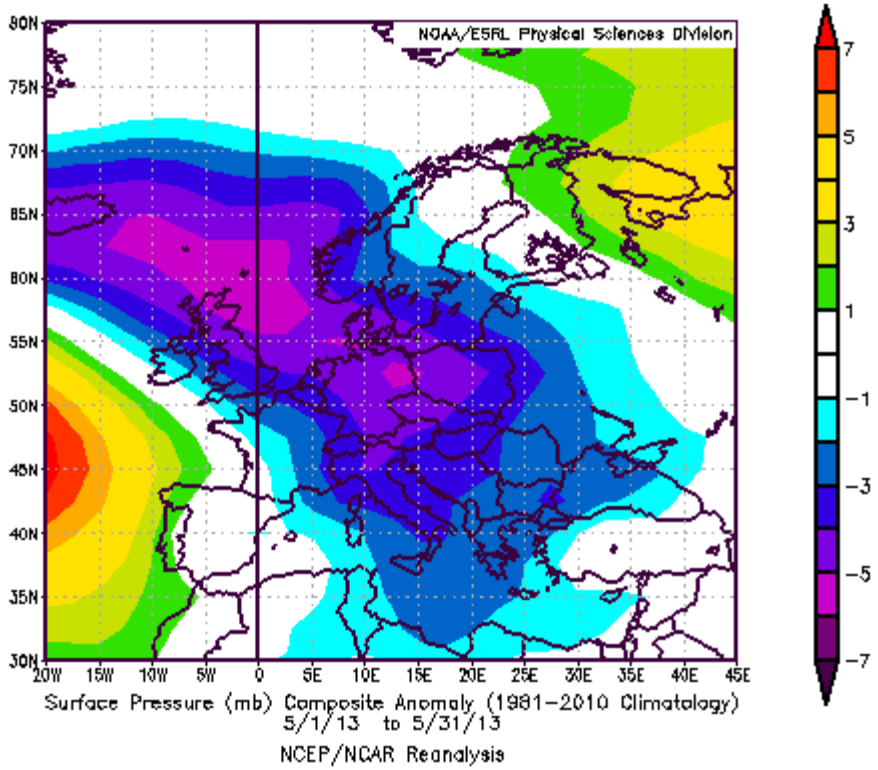


Anomalie maggio 2013

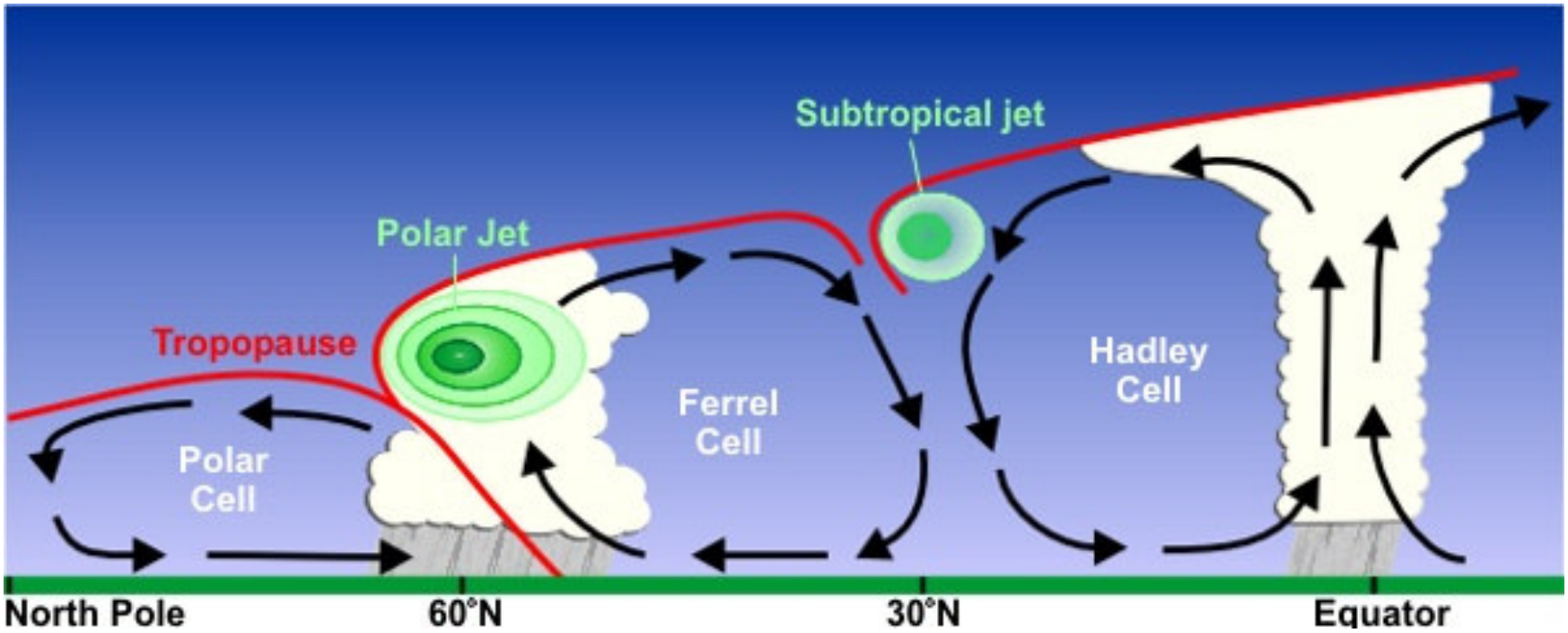
T@1000hPa

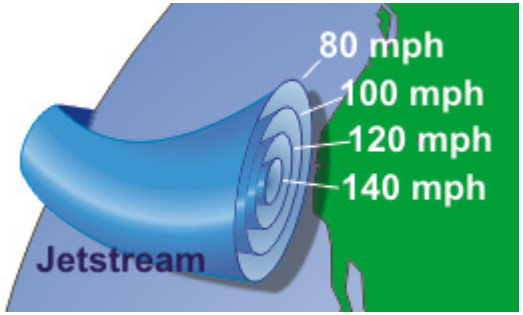


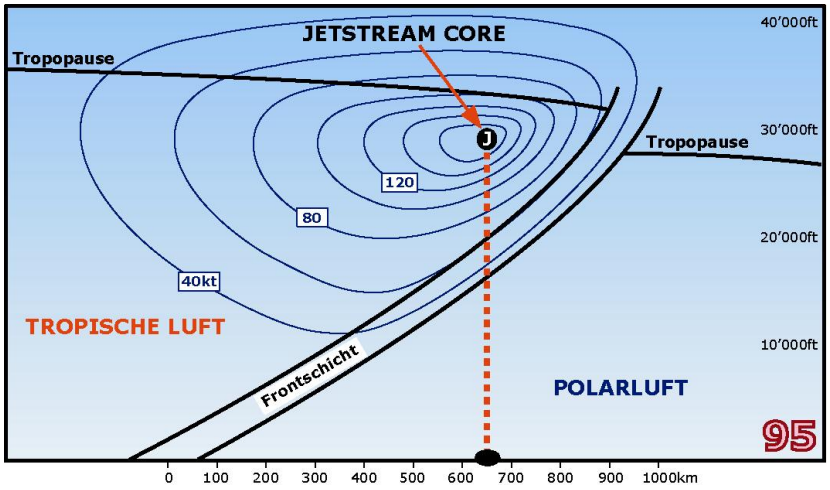
Pressione al suolo



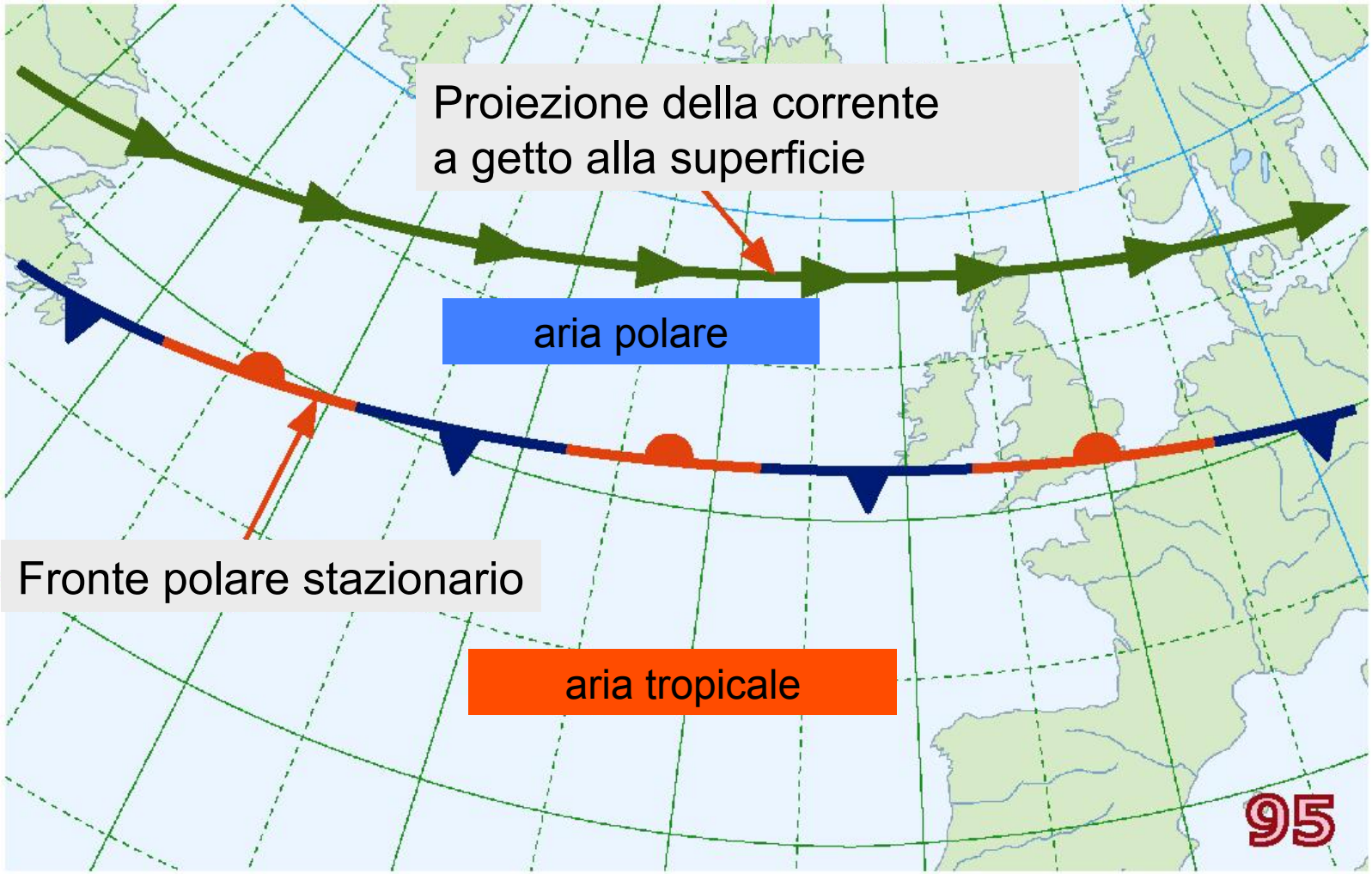
Jet stream


Subtropical jet
Polar Jet
Tropopause
Polar Cell
Ferrel Cell
Hadley Cell
North Pole
60°N
30°N
Equator

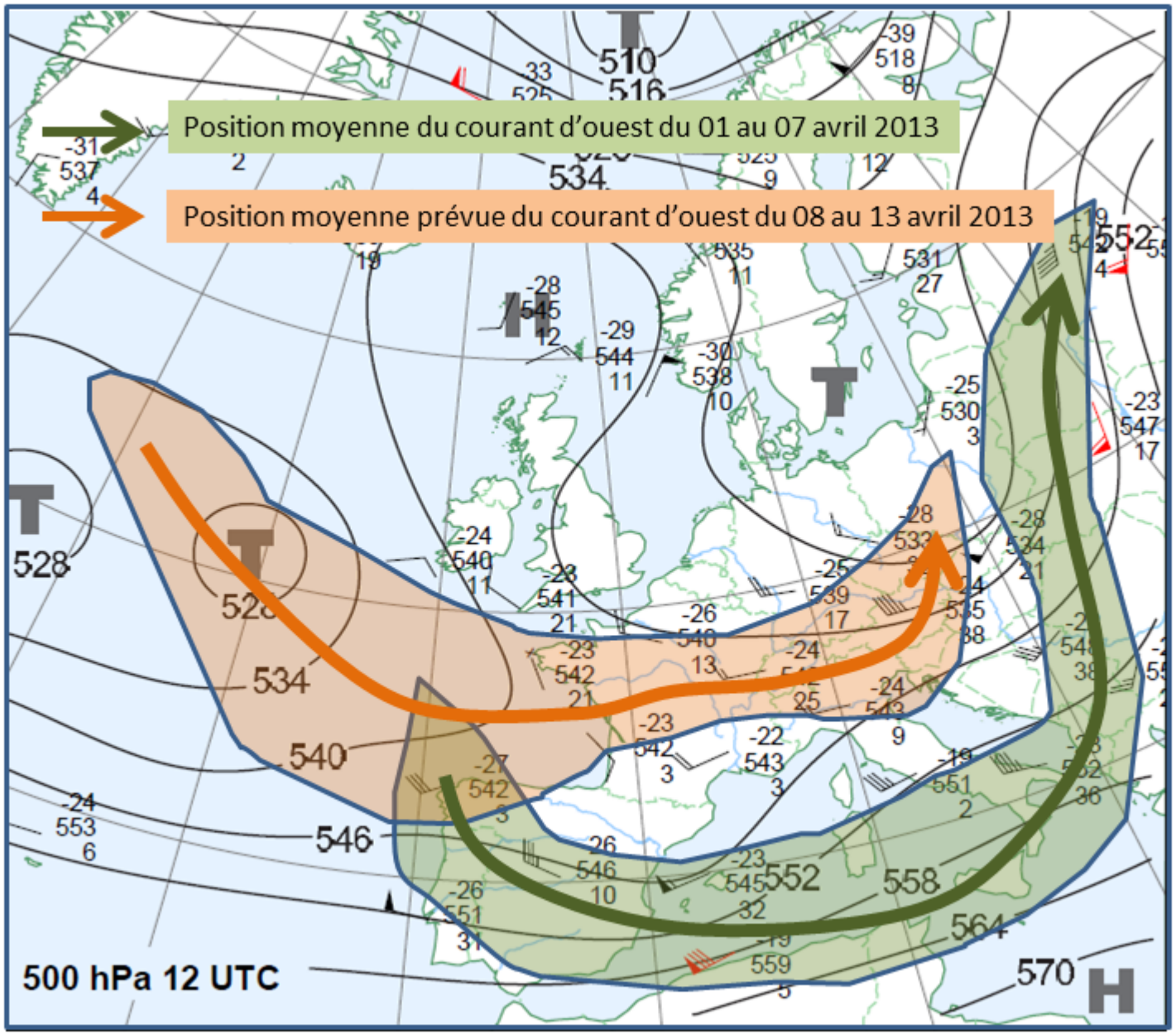

80 mph
100 mph
120 mph
140 mph
Jetstream


JETSTREAM CORE
Tropopause
Tropopause
120
80
40kt
TROPISCHE LUFT
Frontschicht
POLARLUFT
40'000ft
30'000ft
20'000ft
10'000ft
0
100
200
300
400
500
600
700
800
900
1000km
95

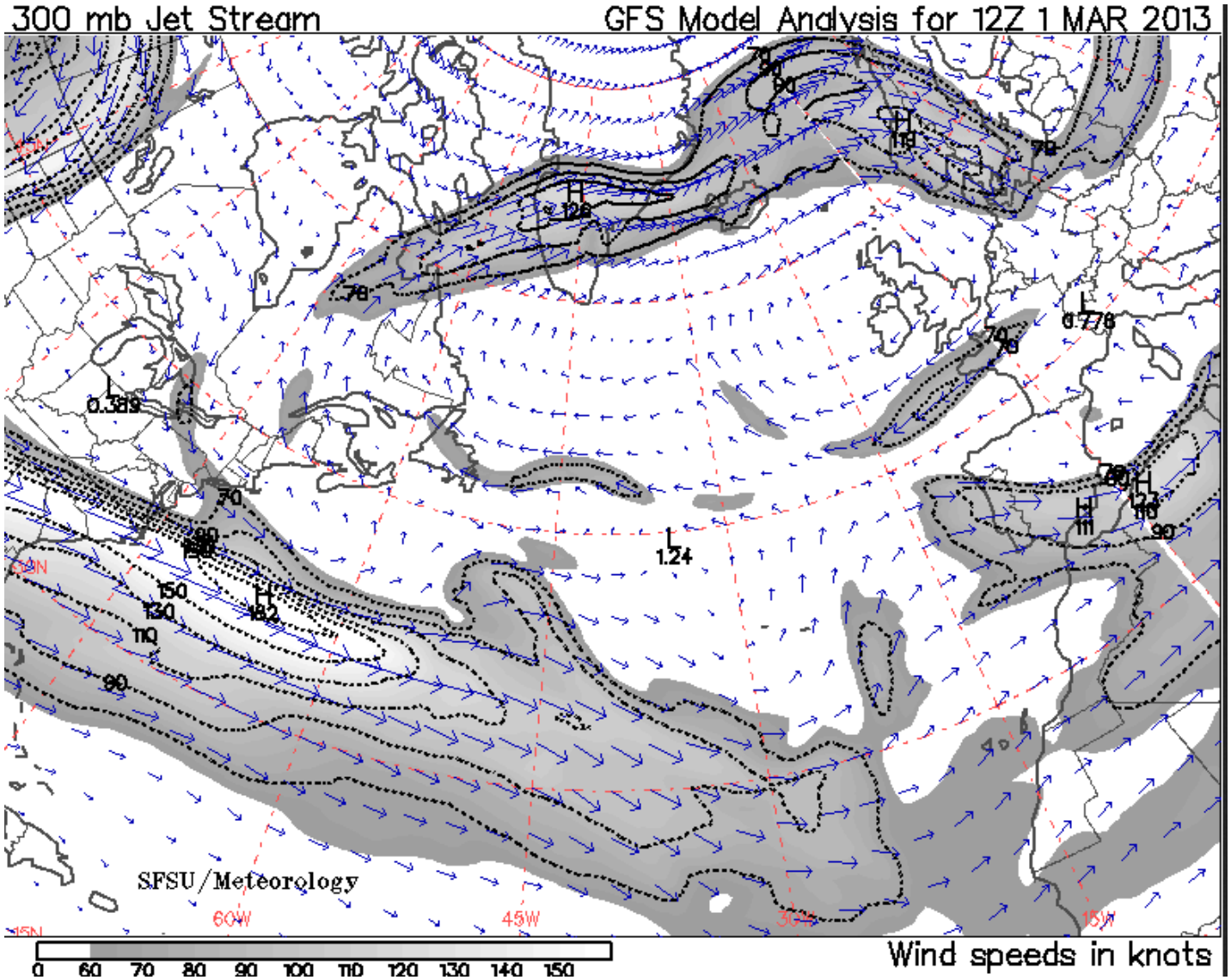
Il fronte polare stazionario



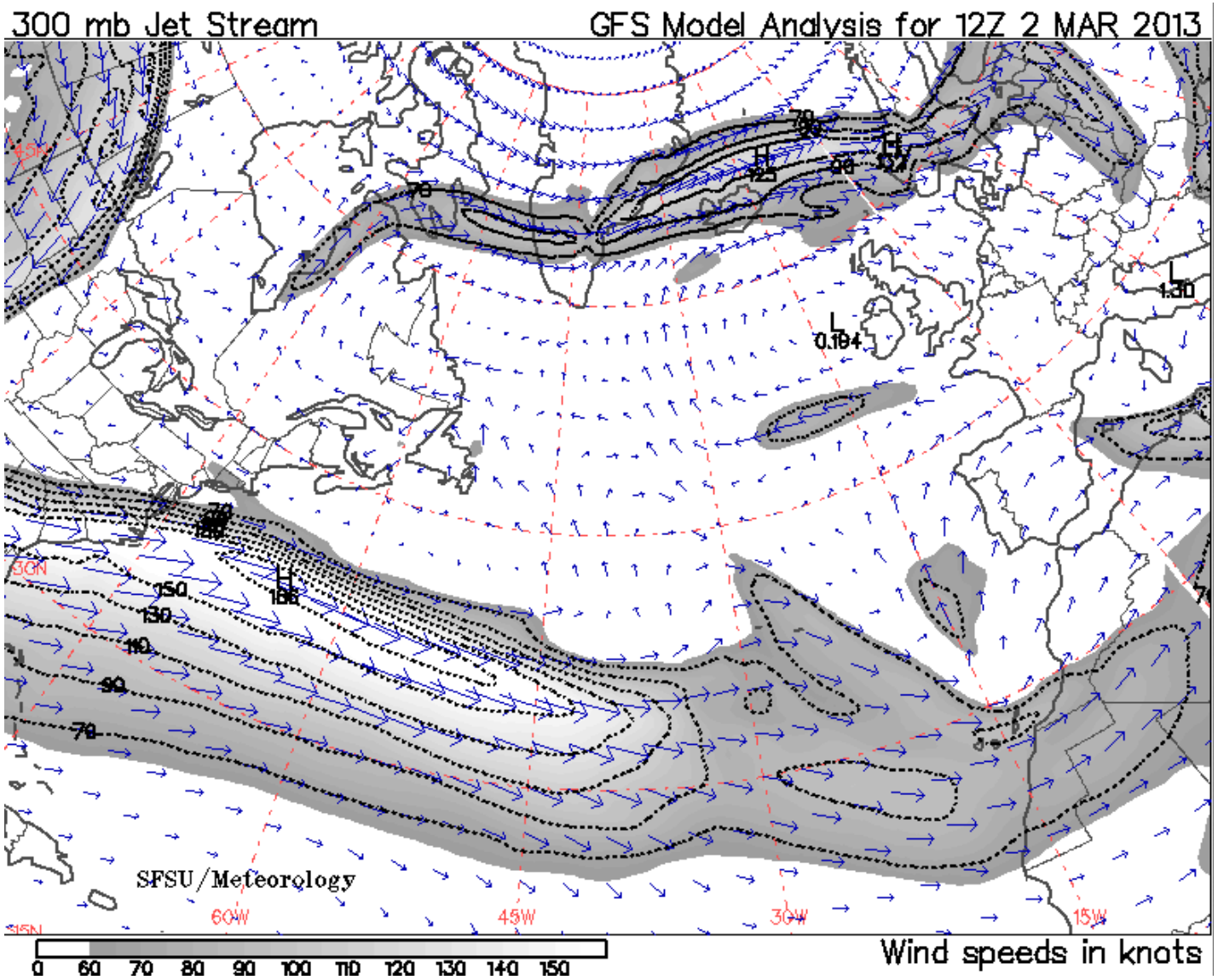
Fonte: K.H. Hack, Flugwetter 2 (2004)

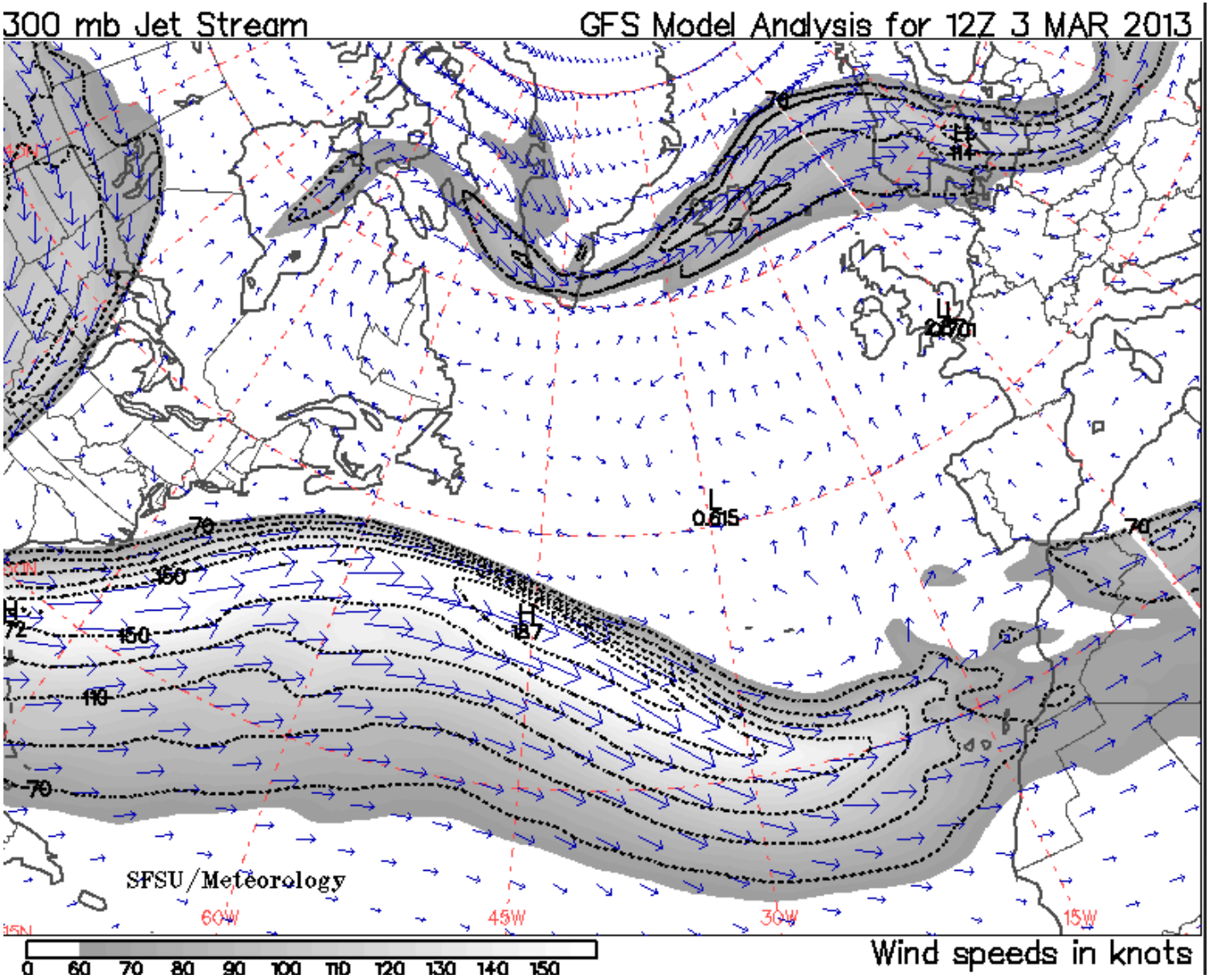

Position moyenne du courant d'ouest du 01 au 07 avril 2013
Position moyenne prévue du courant d'ouest du 08 au 13 avril 2013
500 hPa 12 UTC

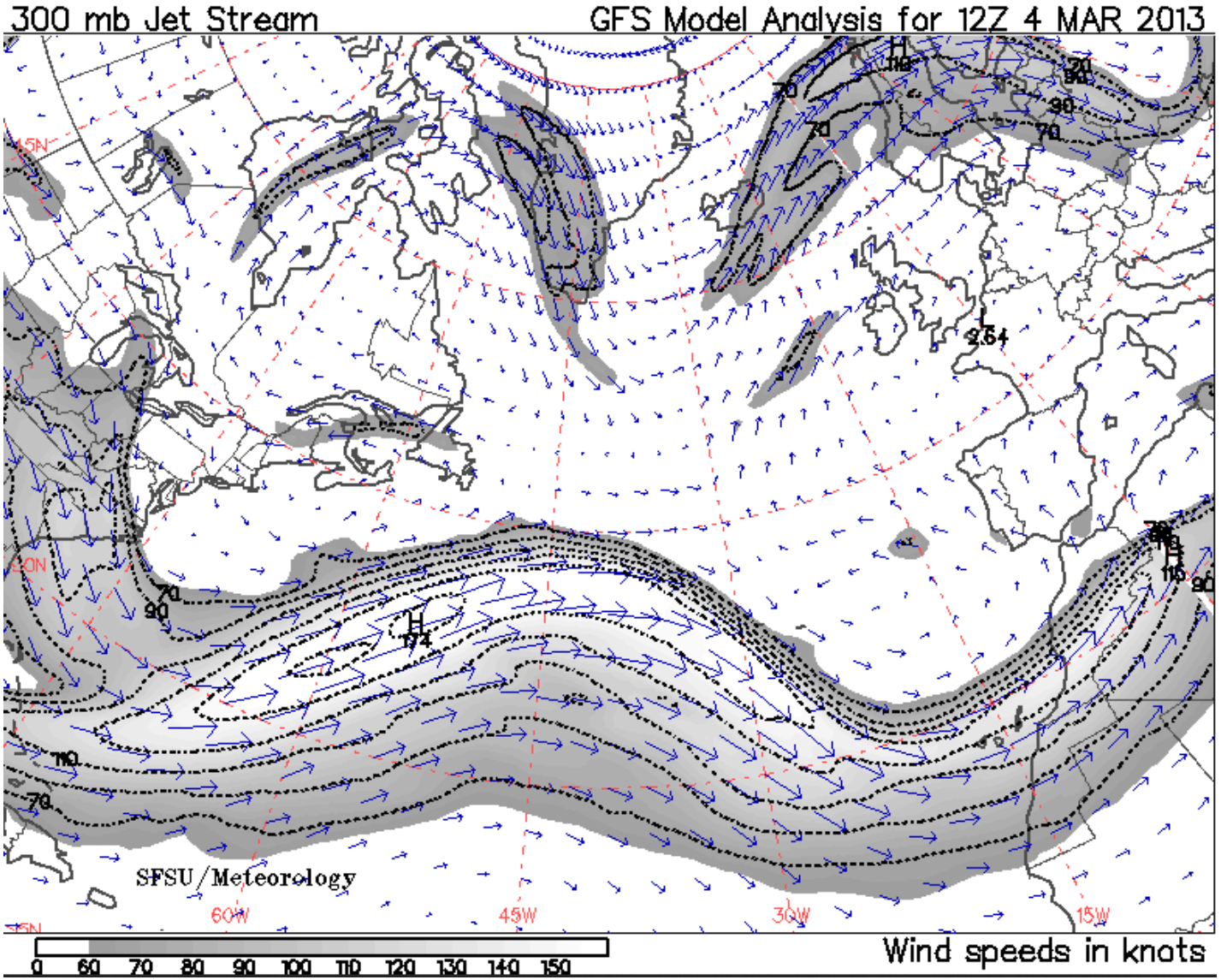
Fonte: sito internet http://squall.sfsu.edu/crws/archive/jetstr

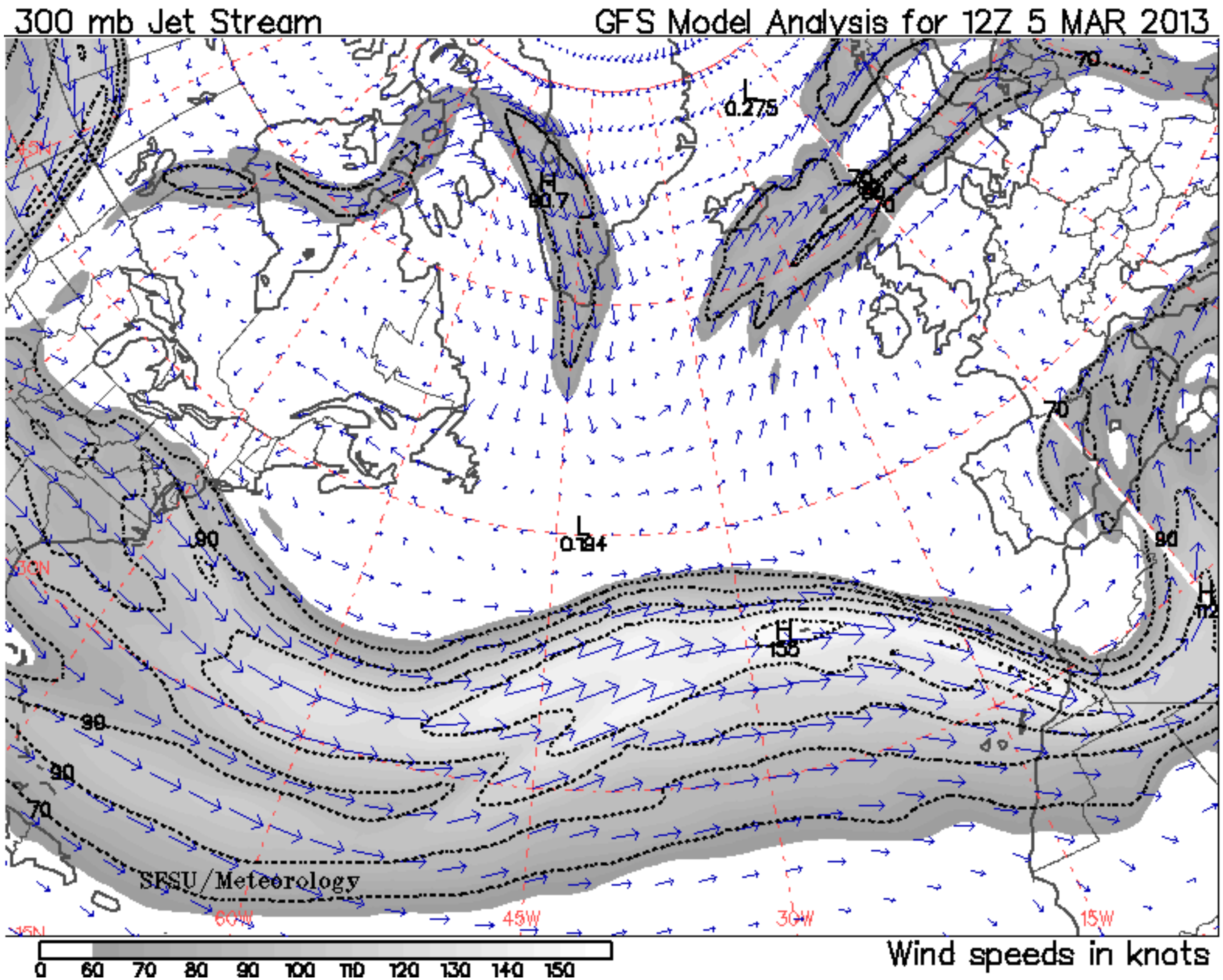


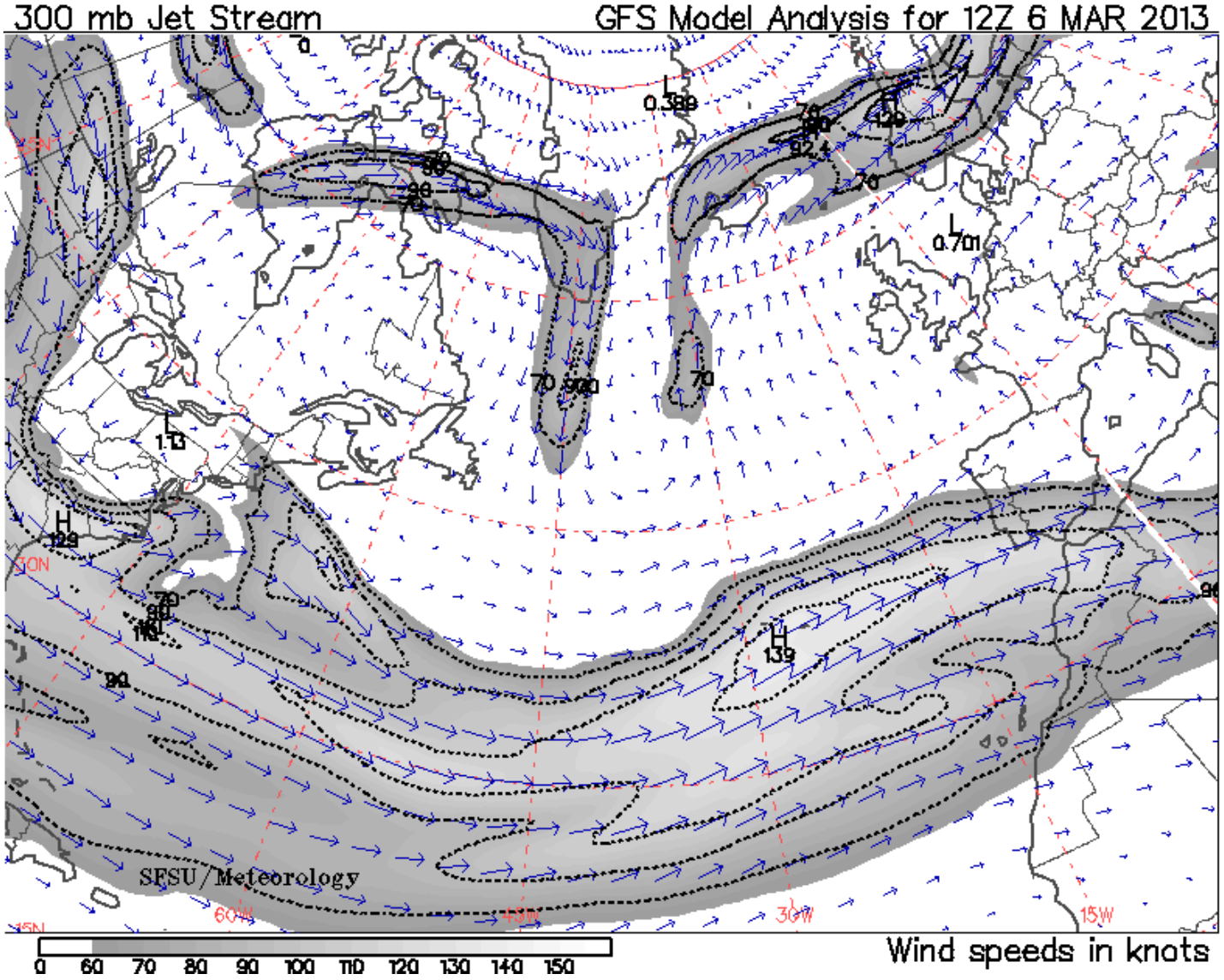
Mauro Guerini


300 mb Jet Stream
GFS Model Analysis for 12Z 2 MAR 2013
SFSU/Meteorology
60W
45W
30W
15W
0
60
70
80
90
100
110
120
130
140
150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 3 MAR 2013
70
70
150
150
110
70
70
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 4 MAR 2013
45N
30N
15N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 5 MAR 2013
SFSU/Meteorology
45N
30N
15N
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 6 MAR 2013
SFSU/Meteorology
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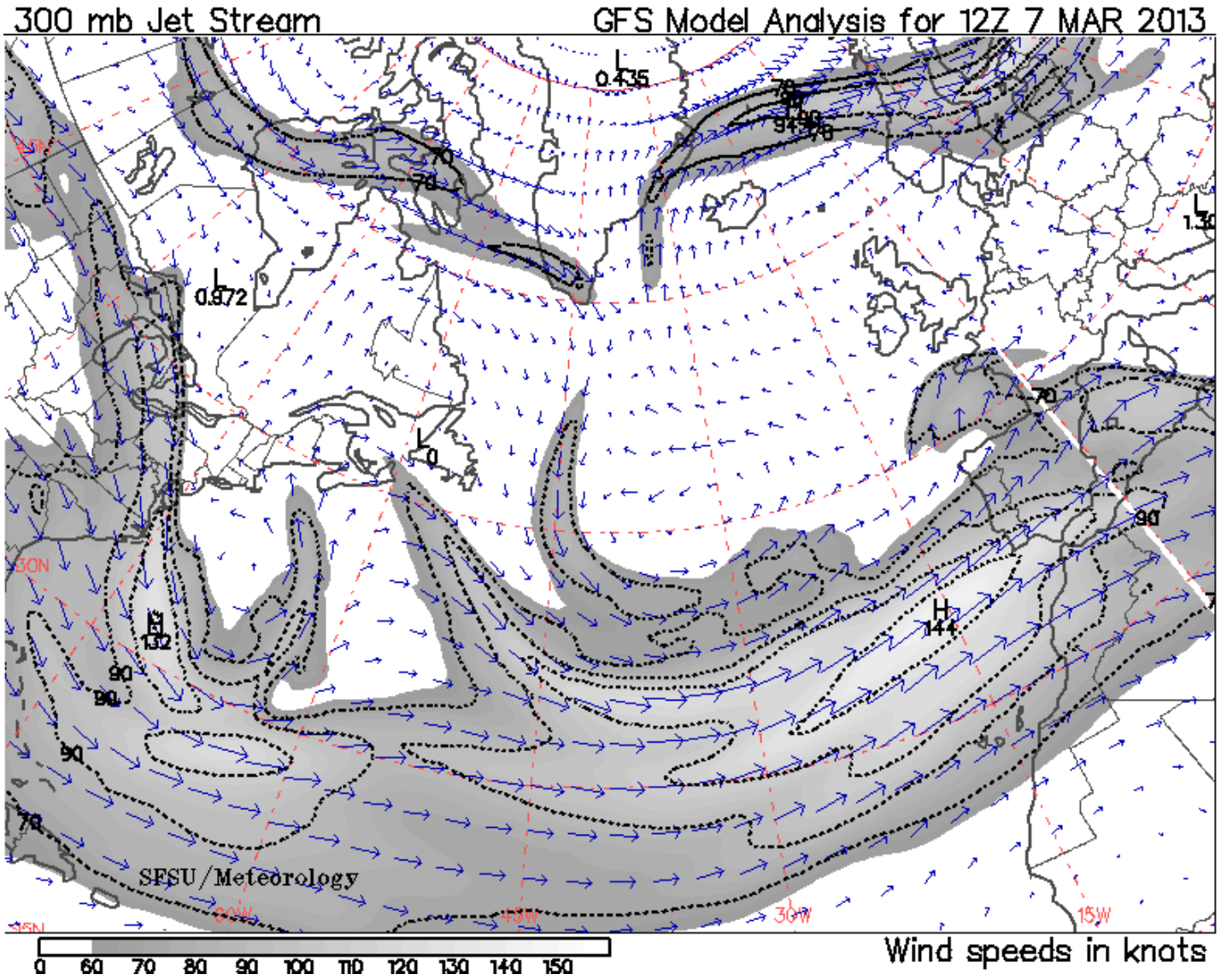
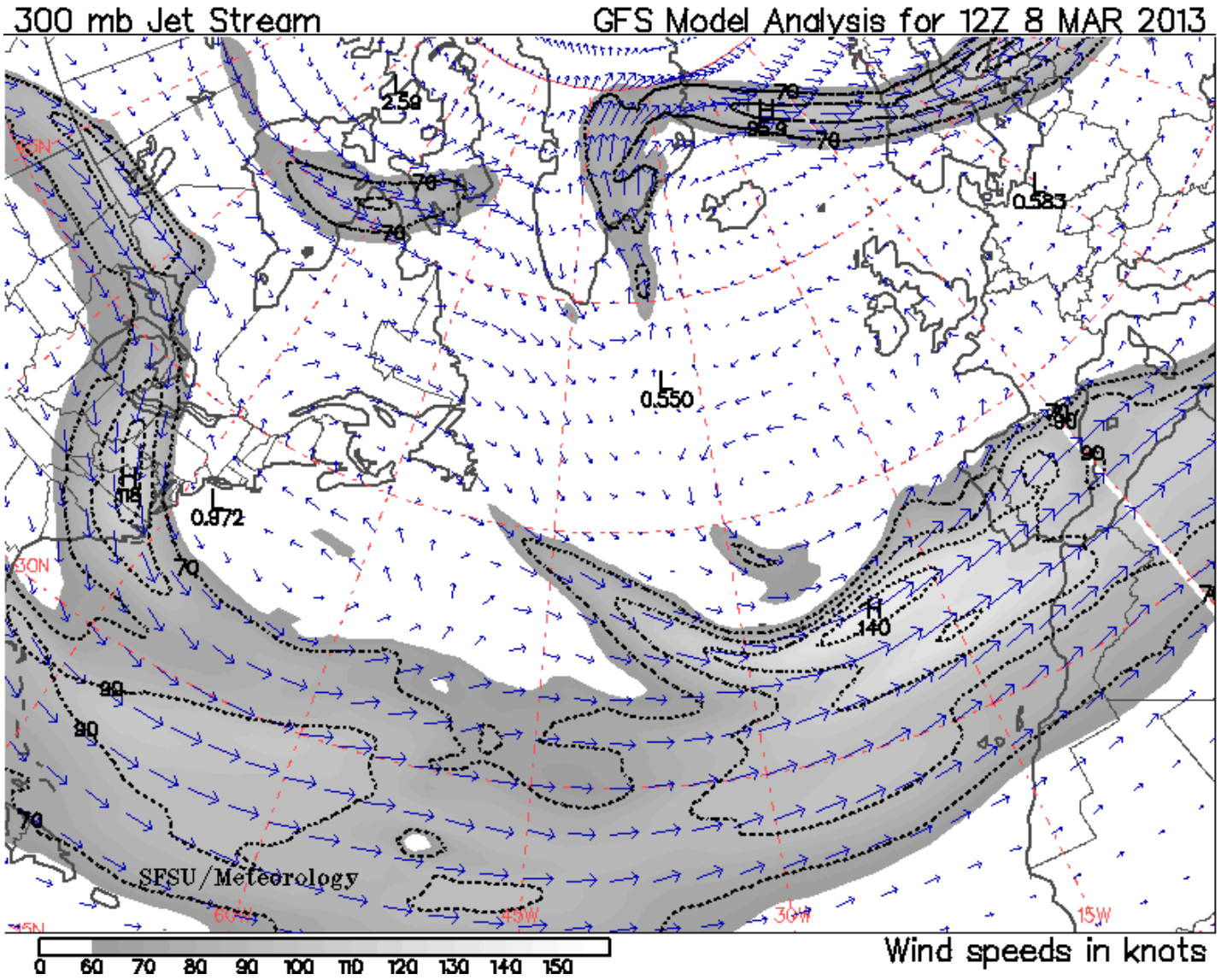
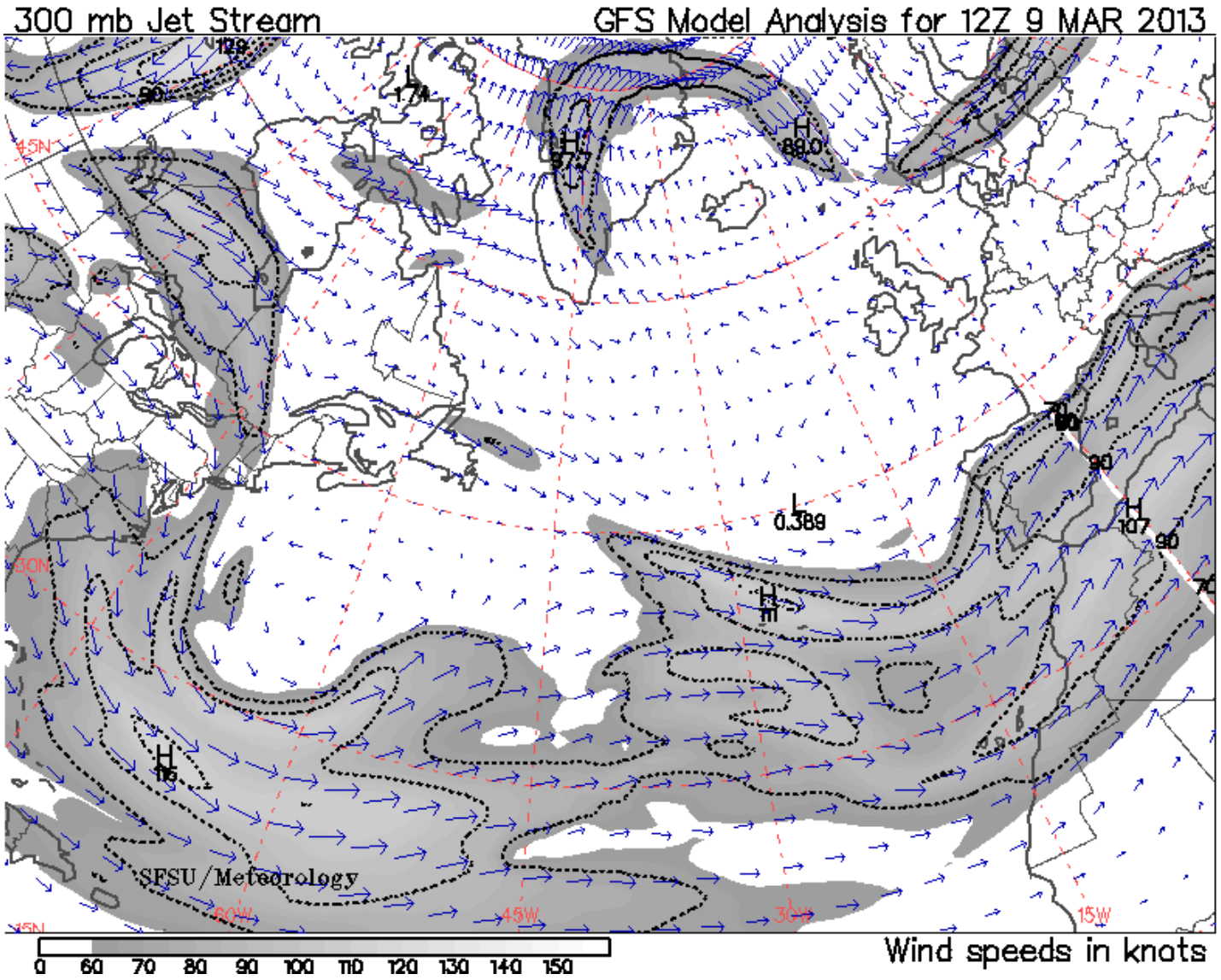
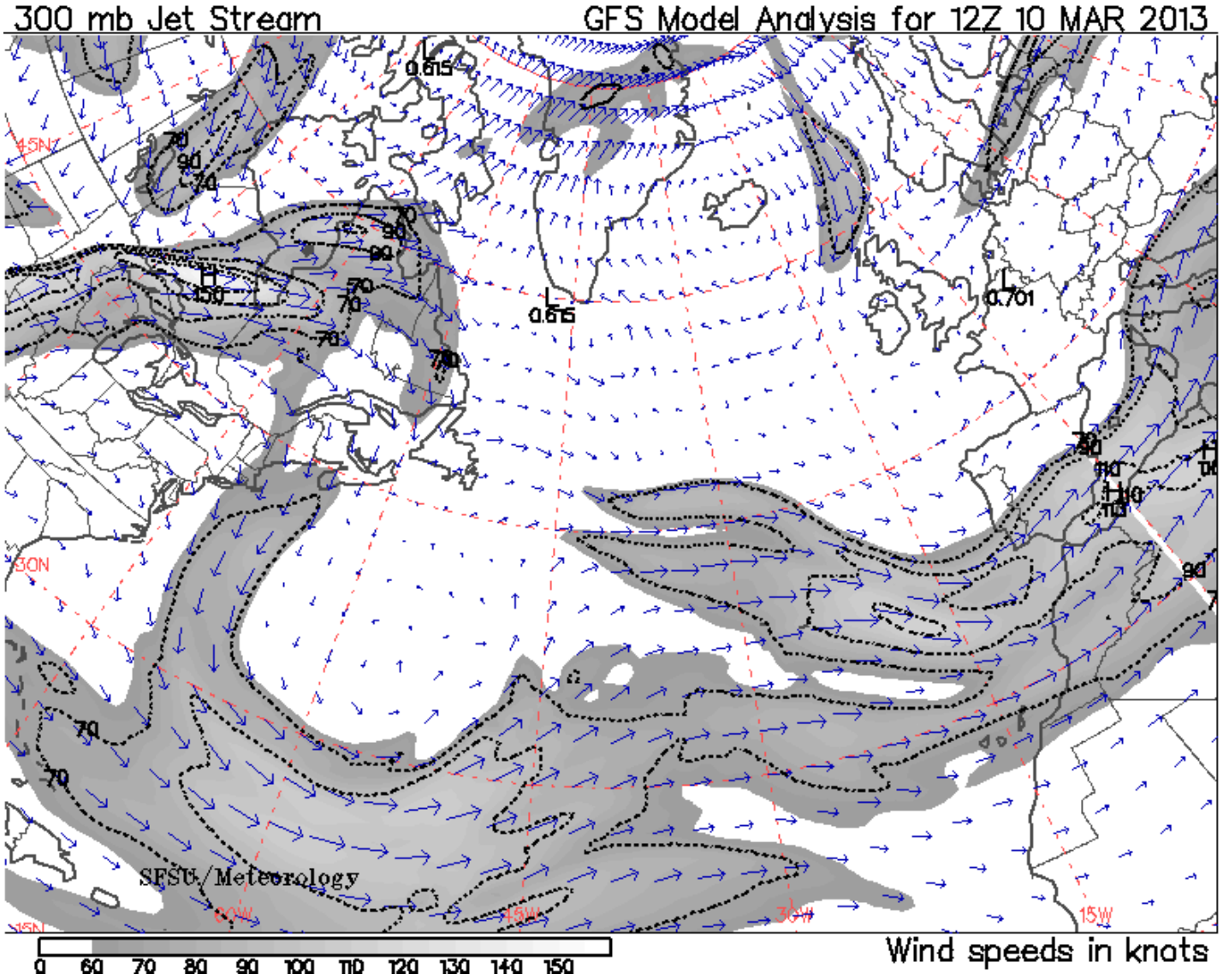
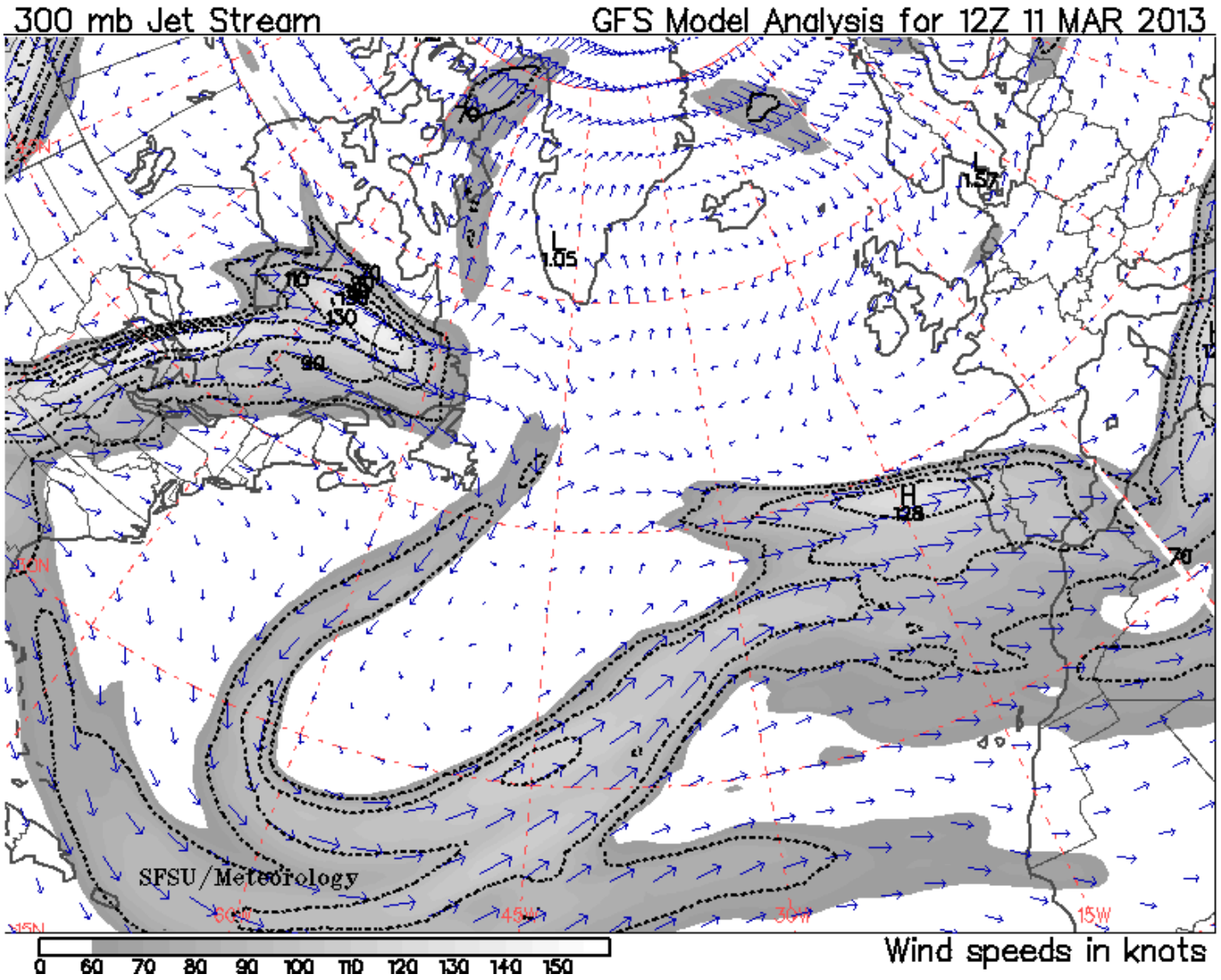
Wind speeds in knots

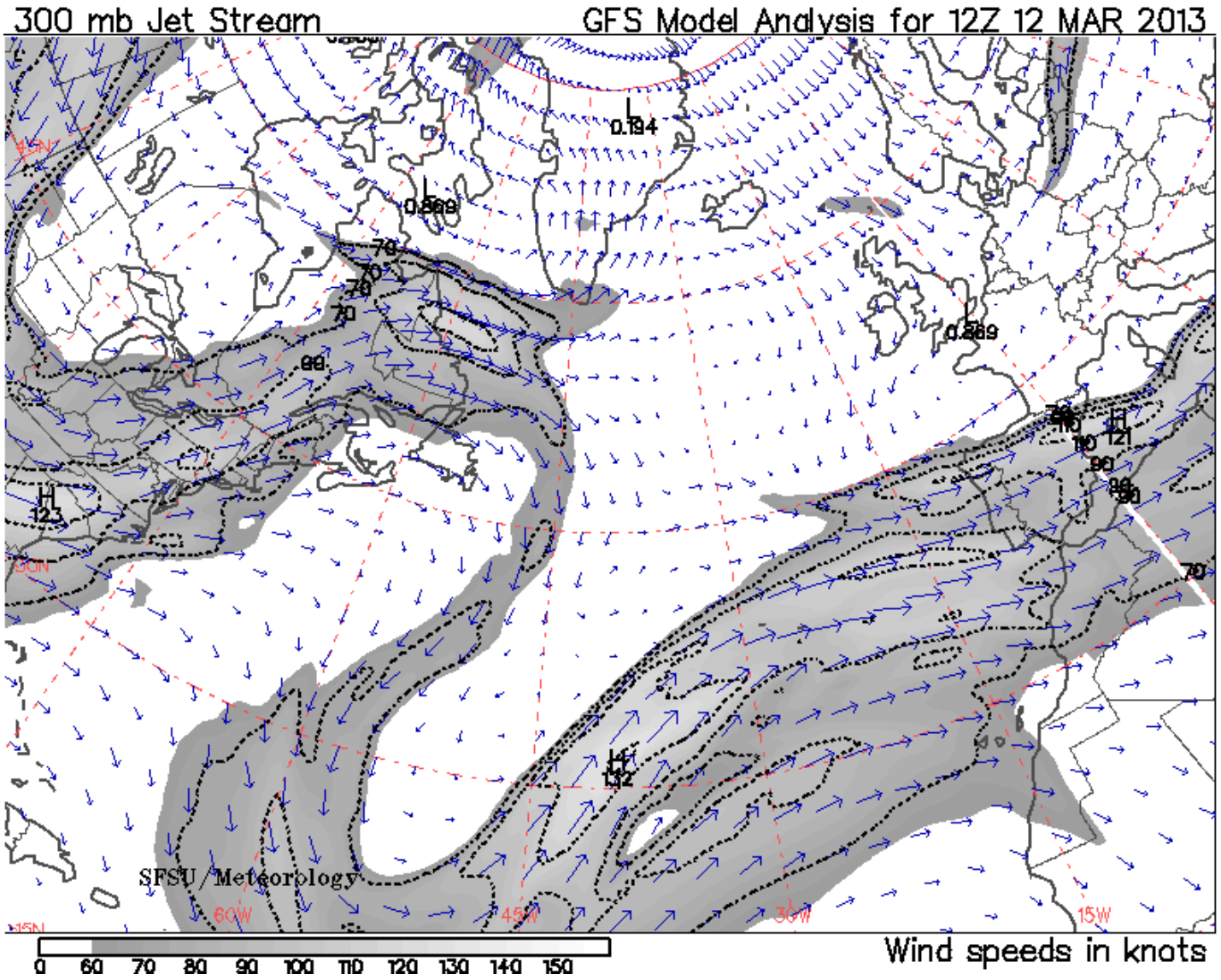

300 mb Jet Stream
GFS Model Analysis for 12Z 7 MAR 2013
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

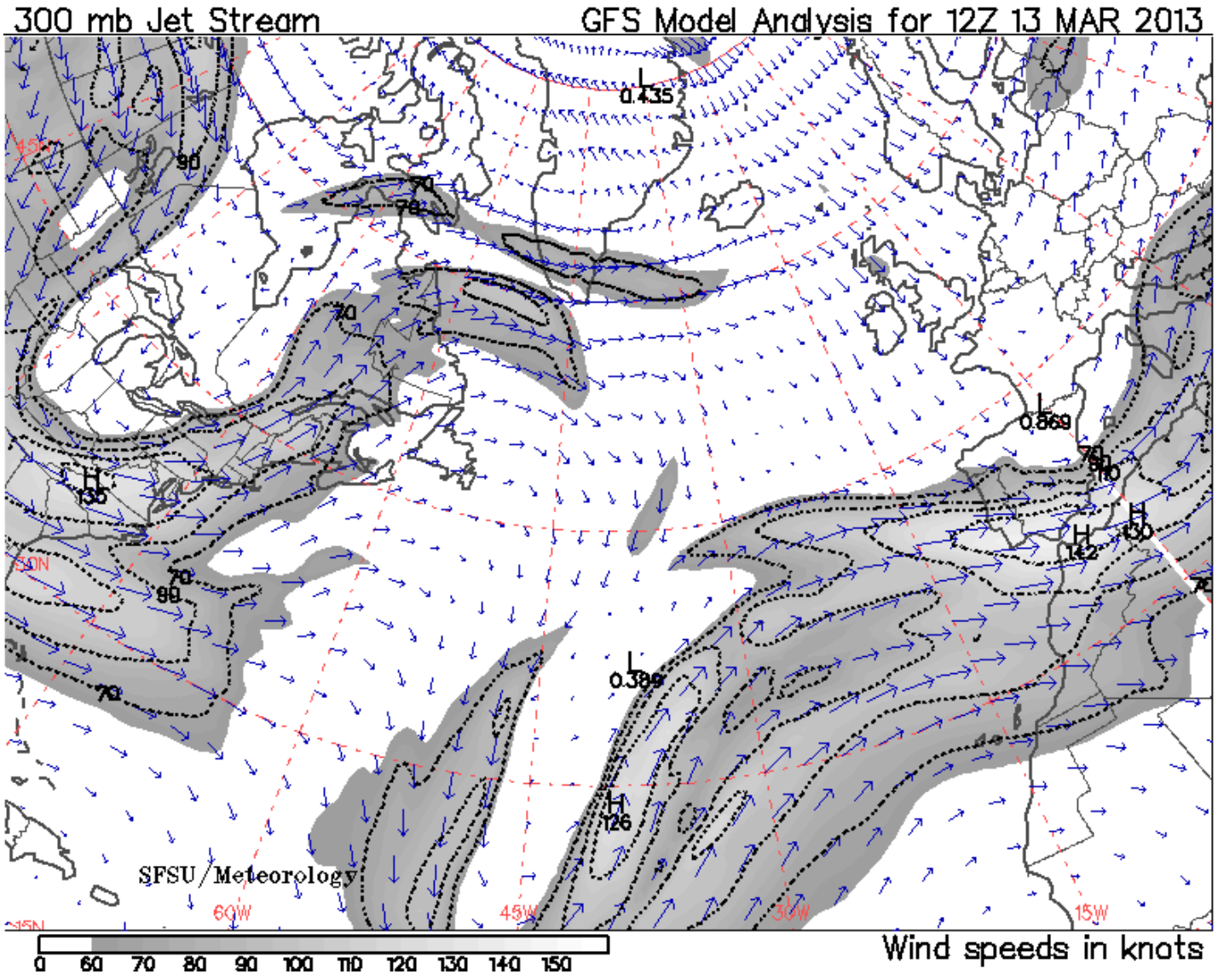

300 mb Jet Stream
GFS Model Analysis for 12Z 8 MAR 2013
0.583
0.550
0.972
140
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

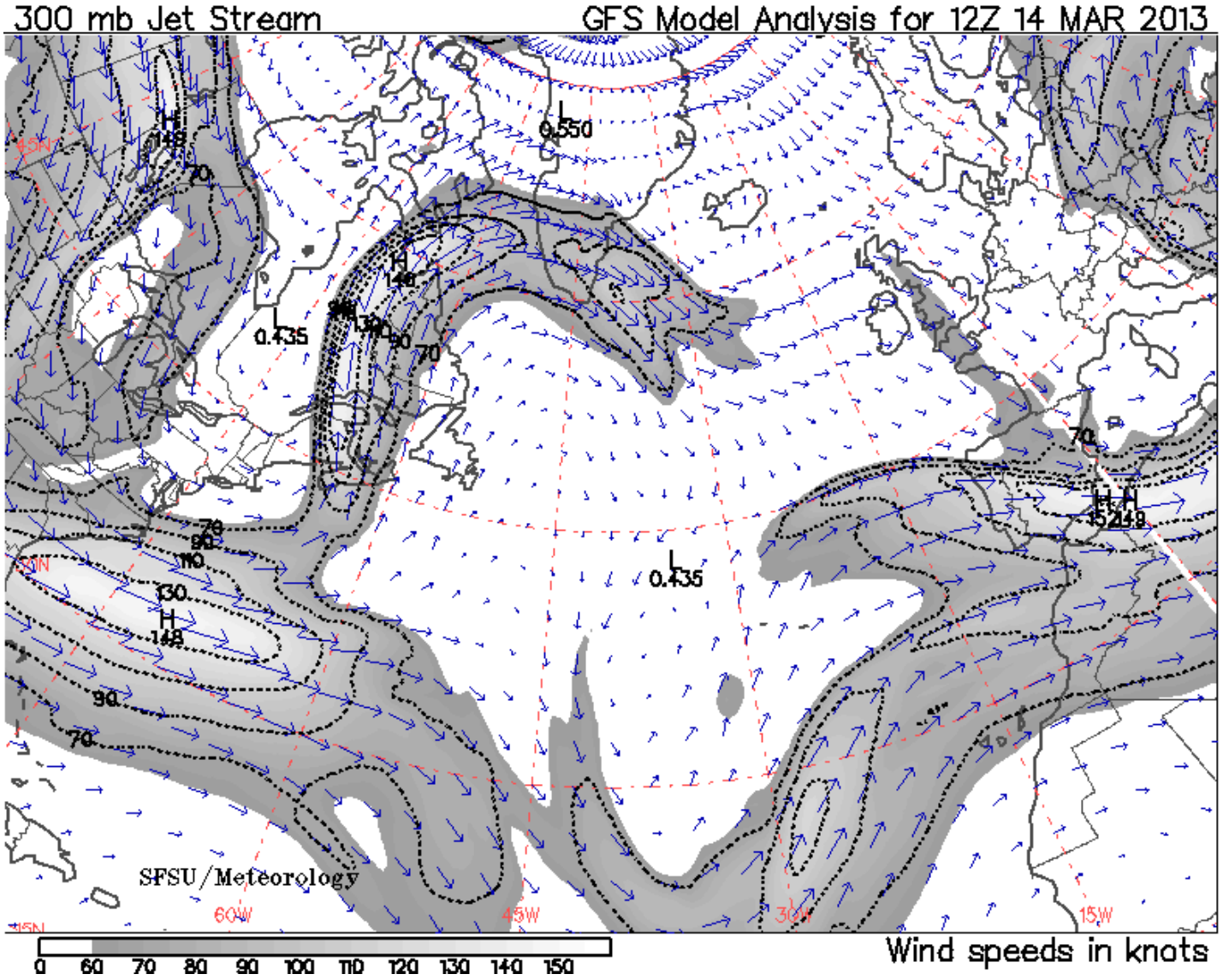

300 mb Jet Stream
GFS Model Analysis for 12Z 9 MAR 2013
SFSU/Metedrology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

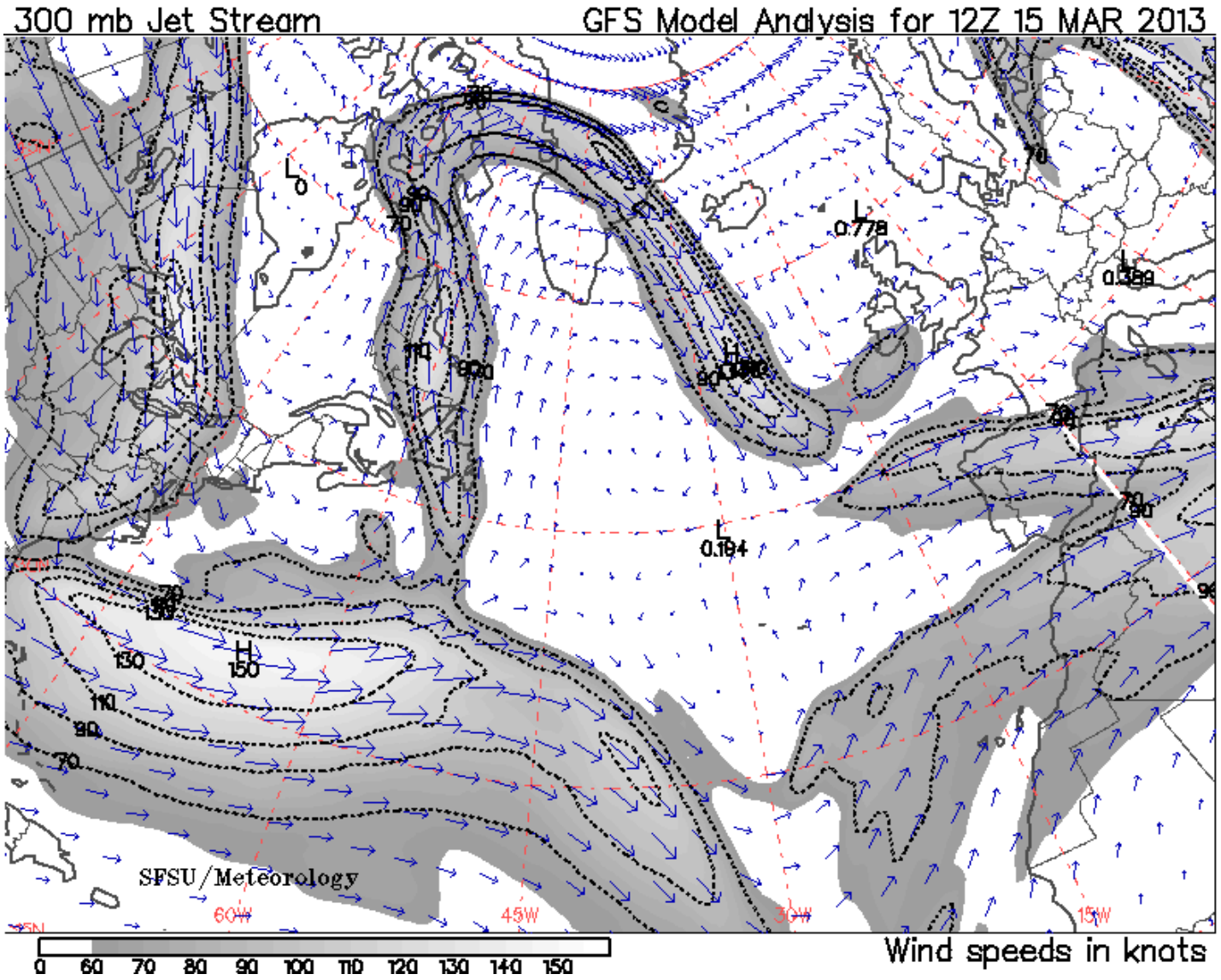

300 mb Jet Stream
GFS Model Analysis for 12Z 10 MAR 2013
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

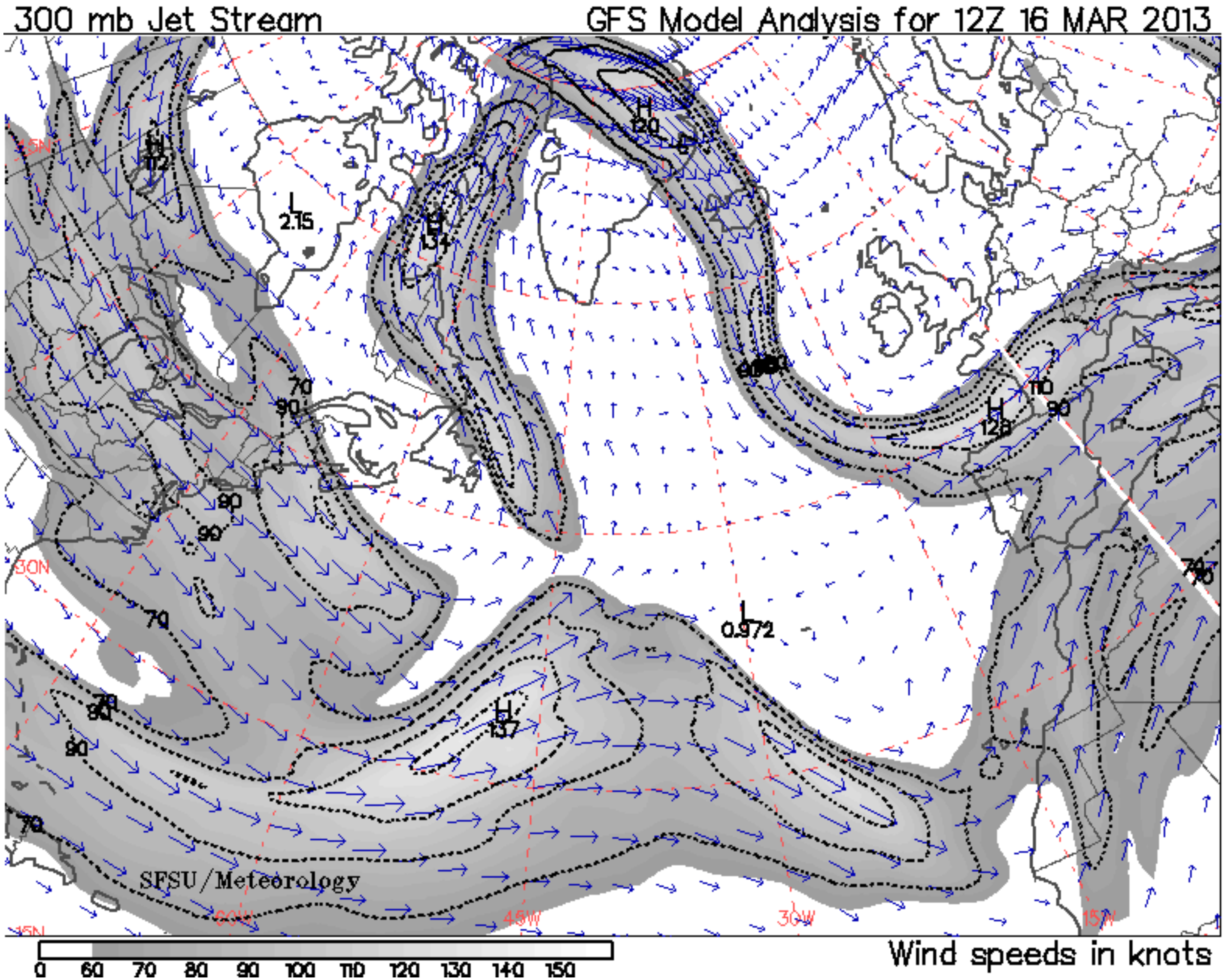

300 mb Jet Stream
GFS Model Analysis for 12Z 11 MAR 2013
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 12 MAR 2013
SFSU / Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

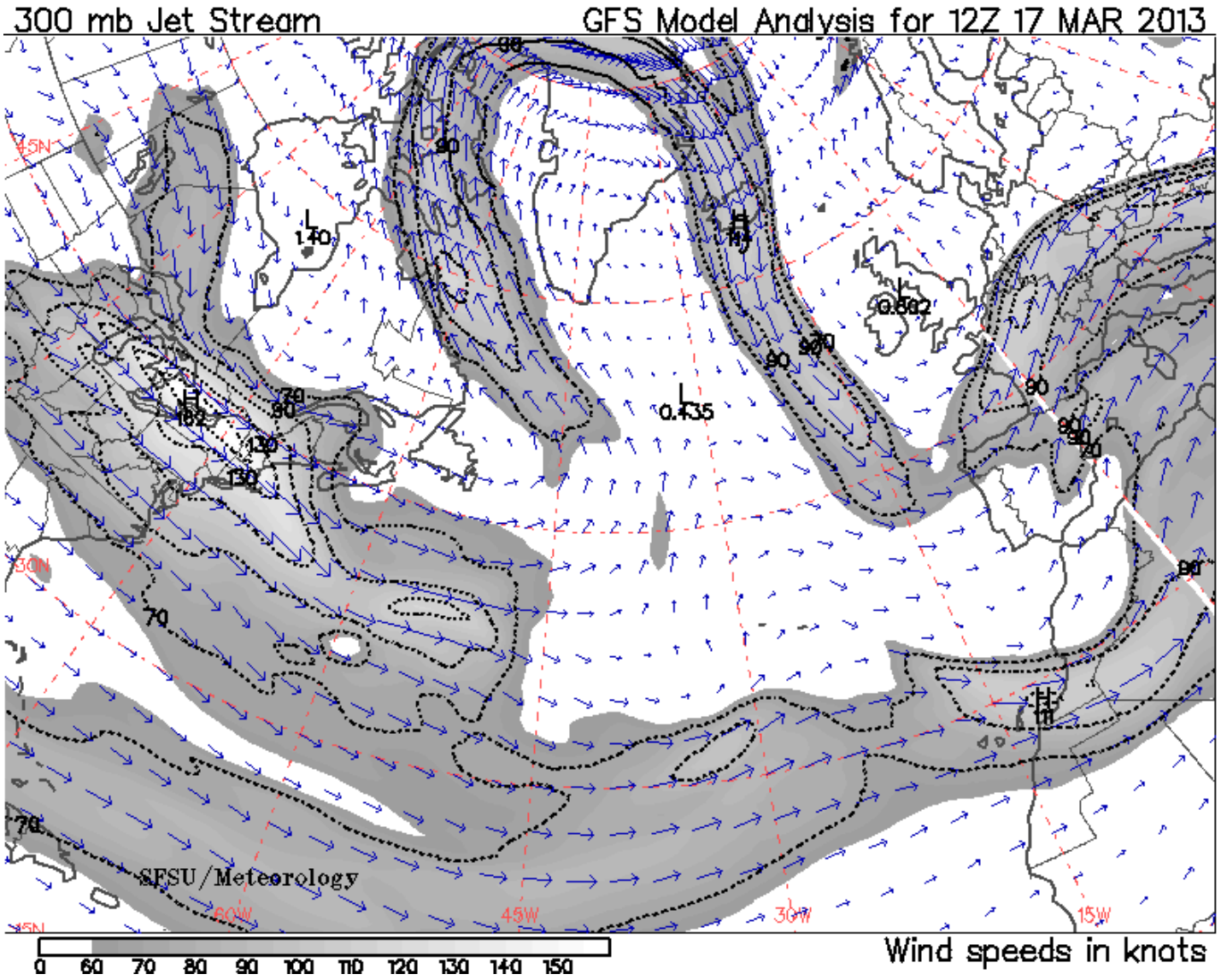

300 mb Jet Stream
GFS Model Analysis for 12Z 13 MAR 2013
L
0.435
L
0.569
L
0.389
H
135
H
142
H
130
H
126
90
70
80
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

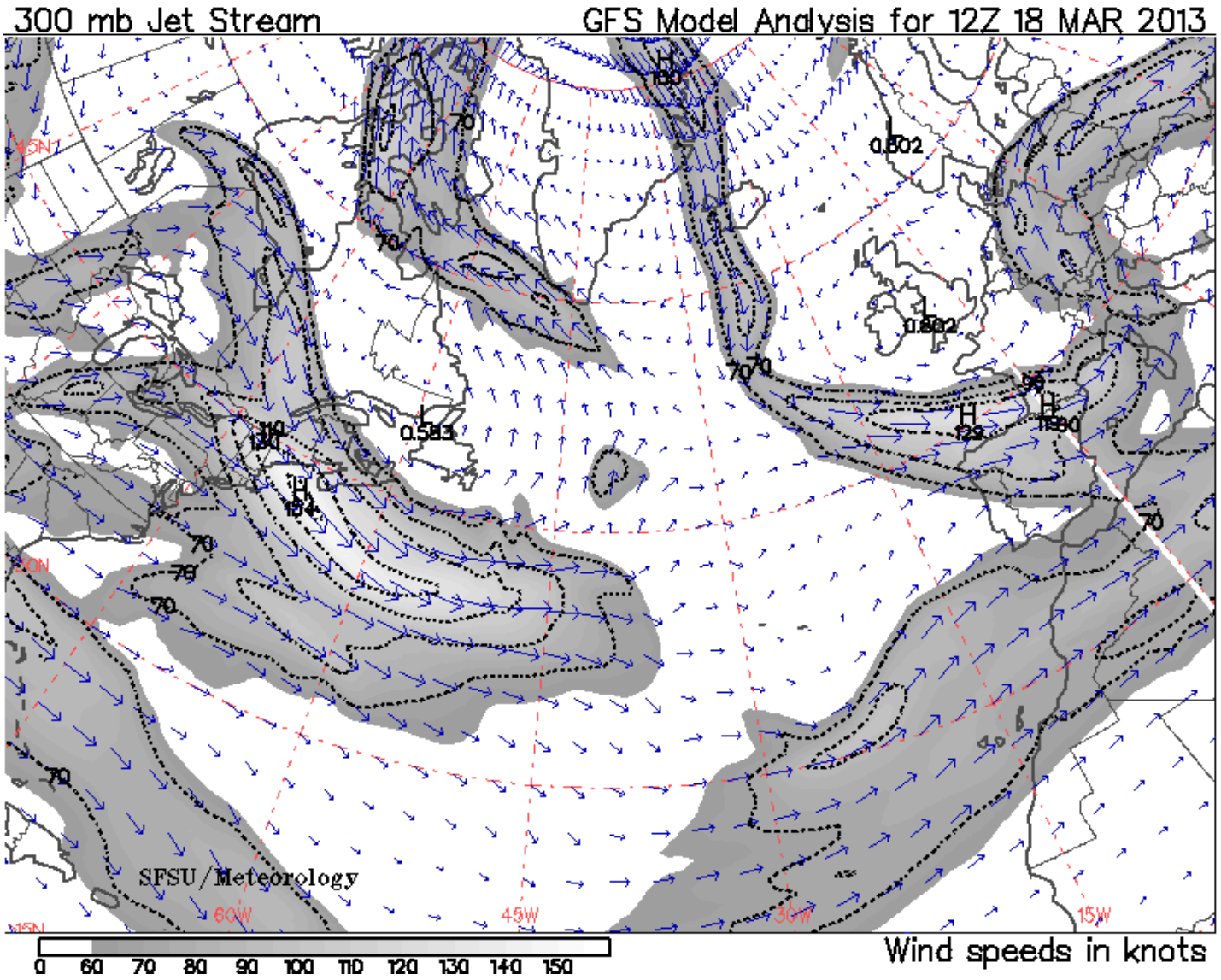

300 mb Jet Stream
GFS Model Analysis for 12Z 14 MAR 2013
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

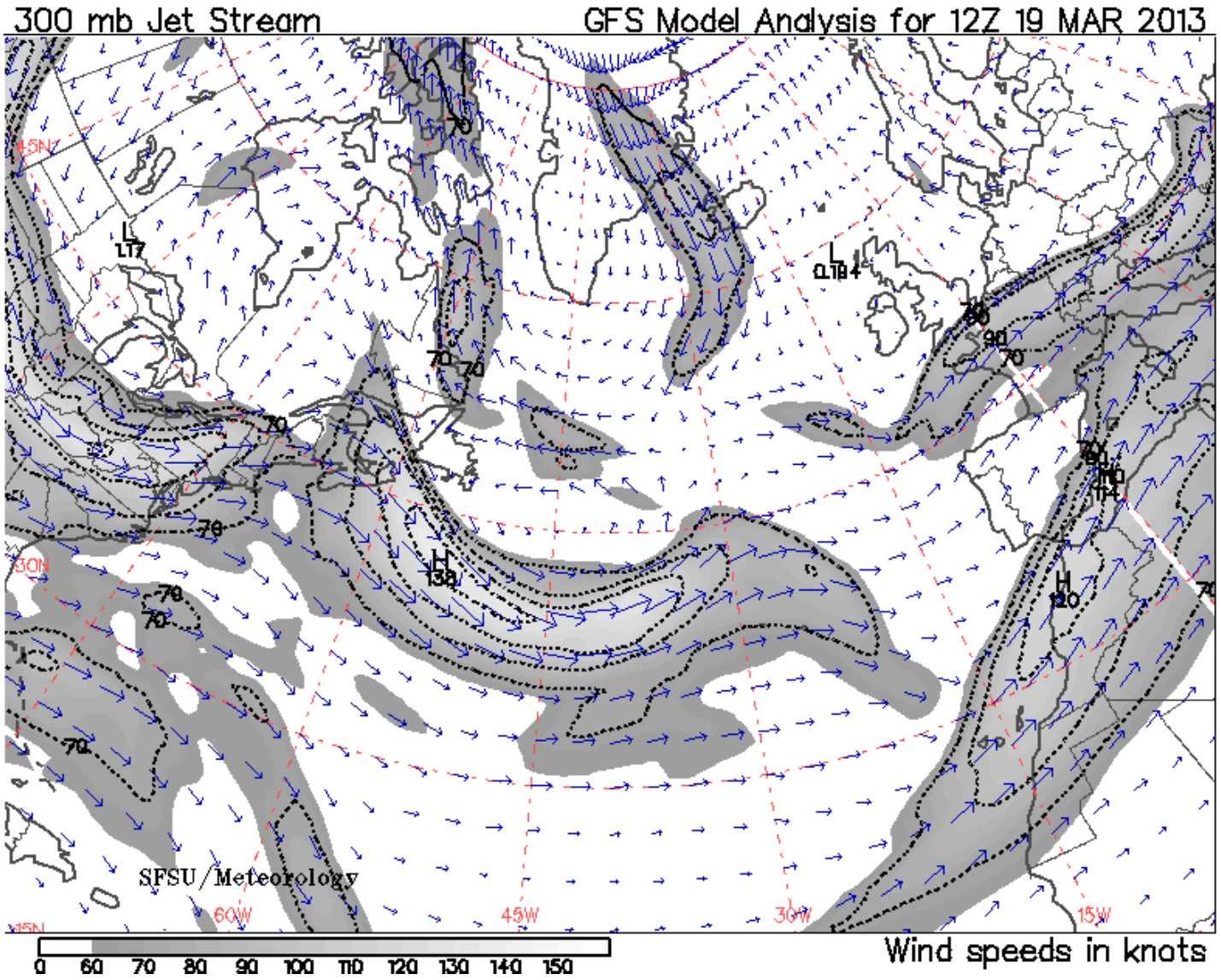

300 mb Jet Stream
GFS Model Analysis for 12Z 15 MAR 2013
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

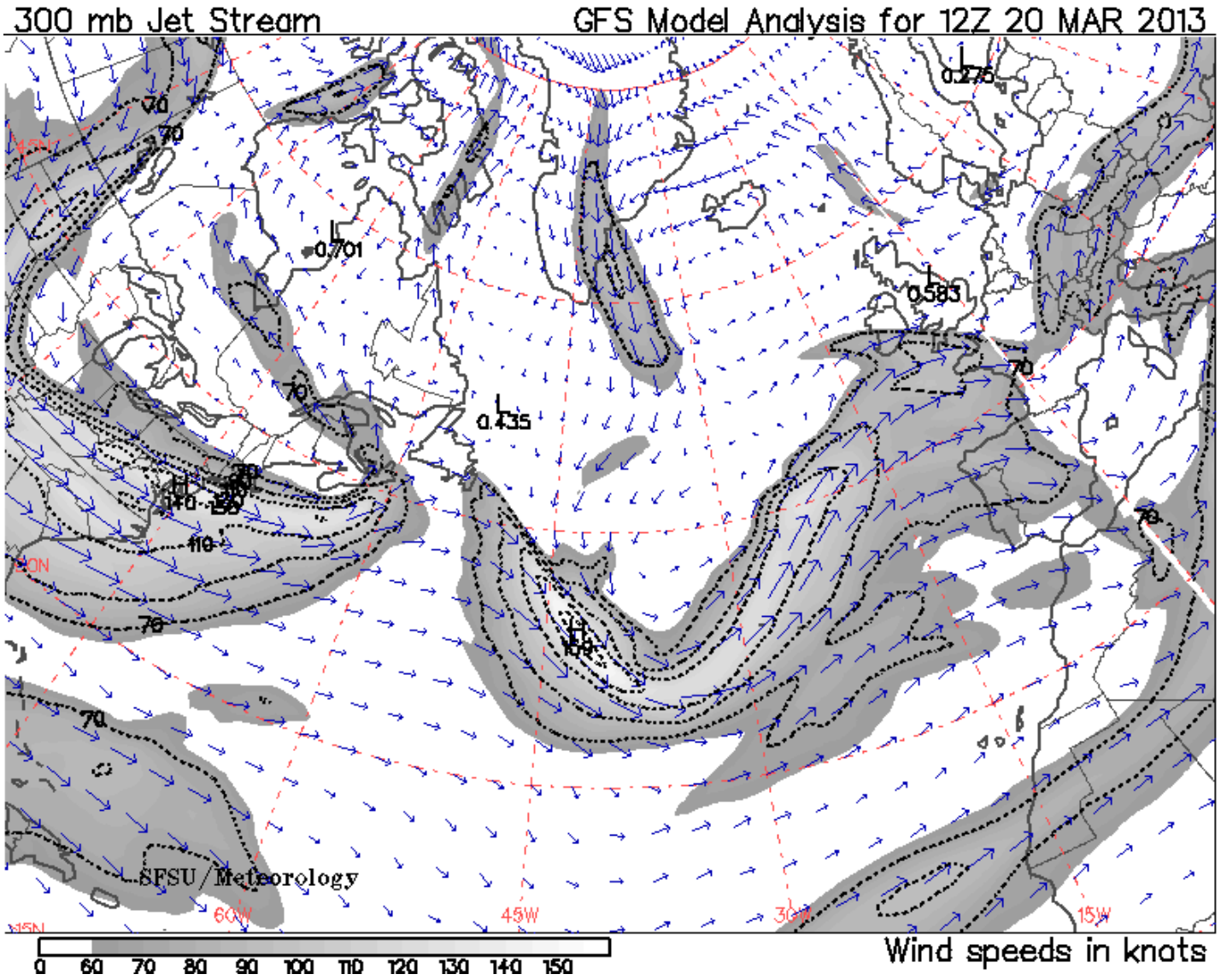


300 mb Jet Stream
GFS Model Analysis for 12Z 16 MAR 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150
30N
60W
45W
30W
15W

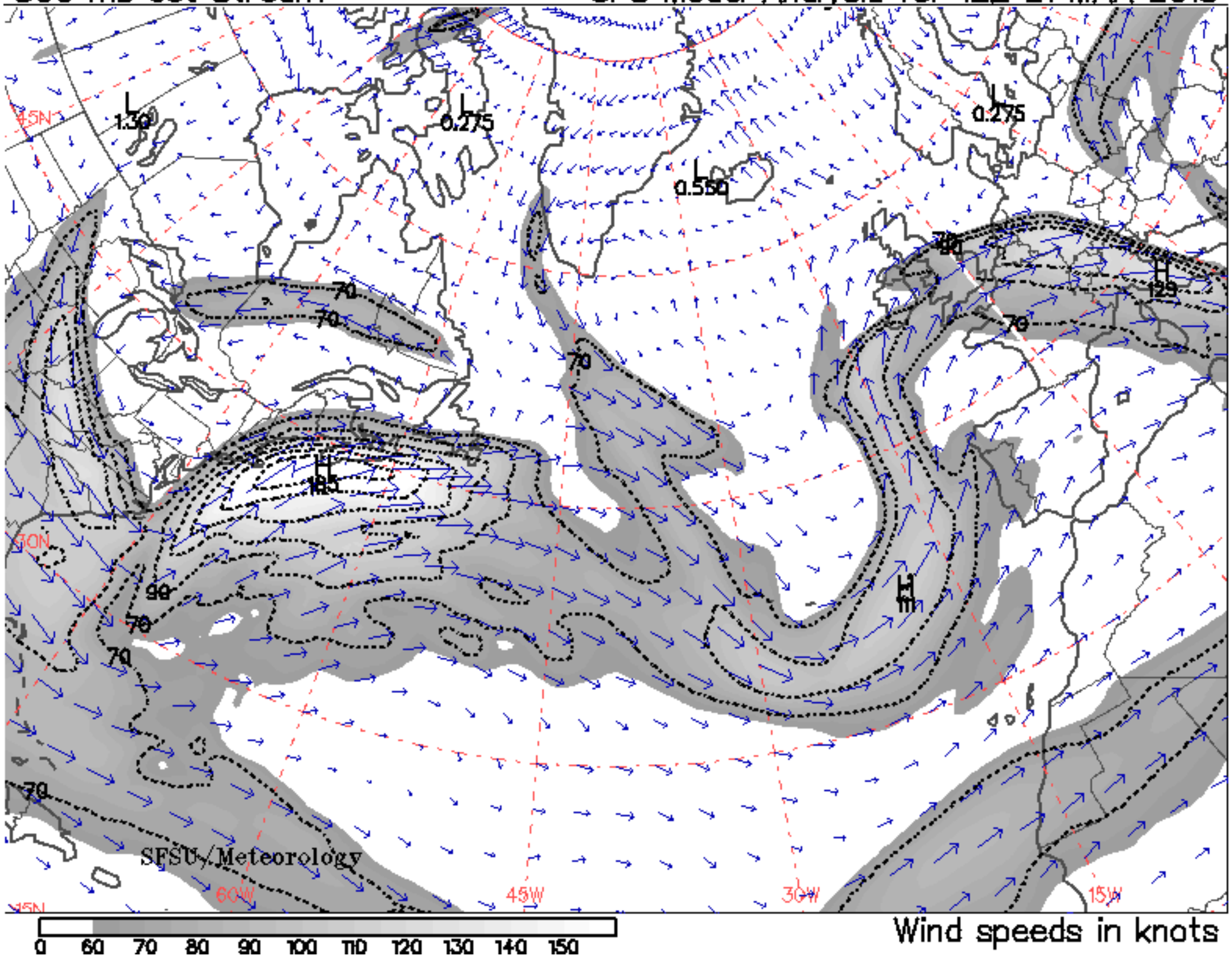

300 mb Jet Stream
GFS Model Analysis for 12Z 17 MAR 2013
45N
30N
15N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

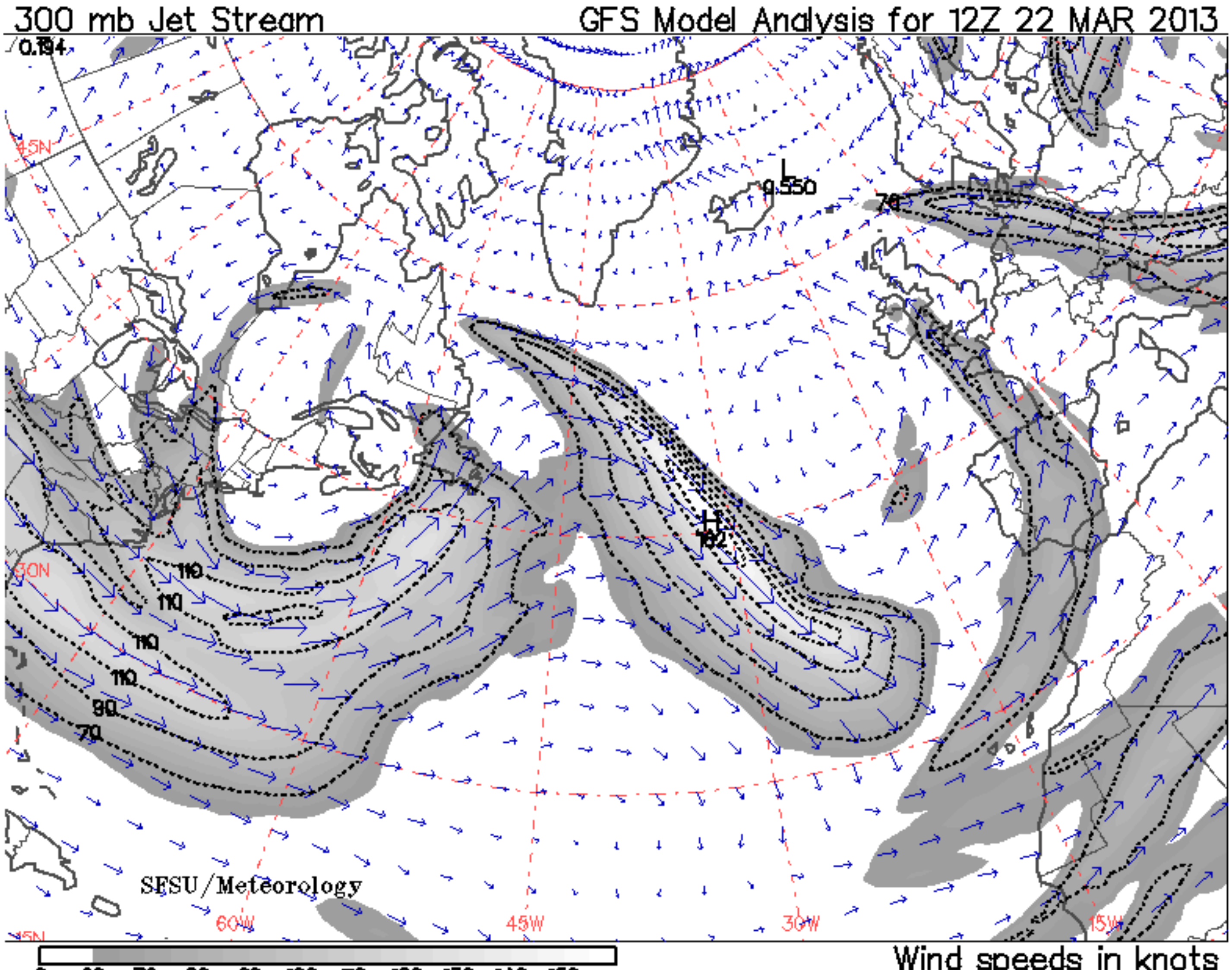

300 mb Jet Stream
GFS Model Analysis for 12Z 18 MAR 2013
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

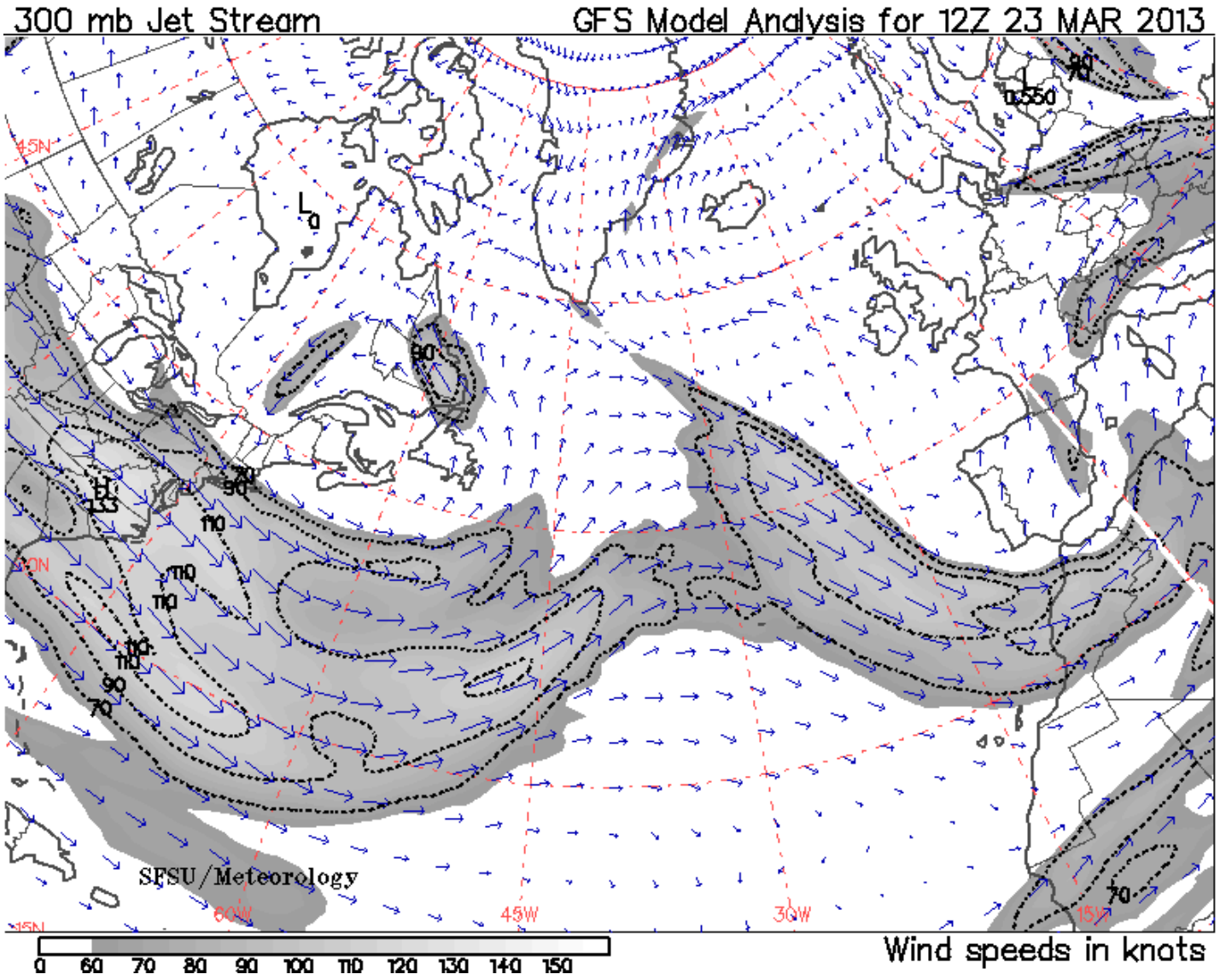

300 mb Jet Stream
GFS Model Analysis for 12Z 19 MAR 2013
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

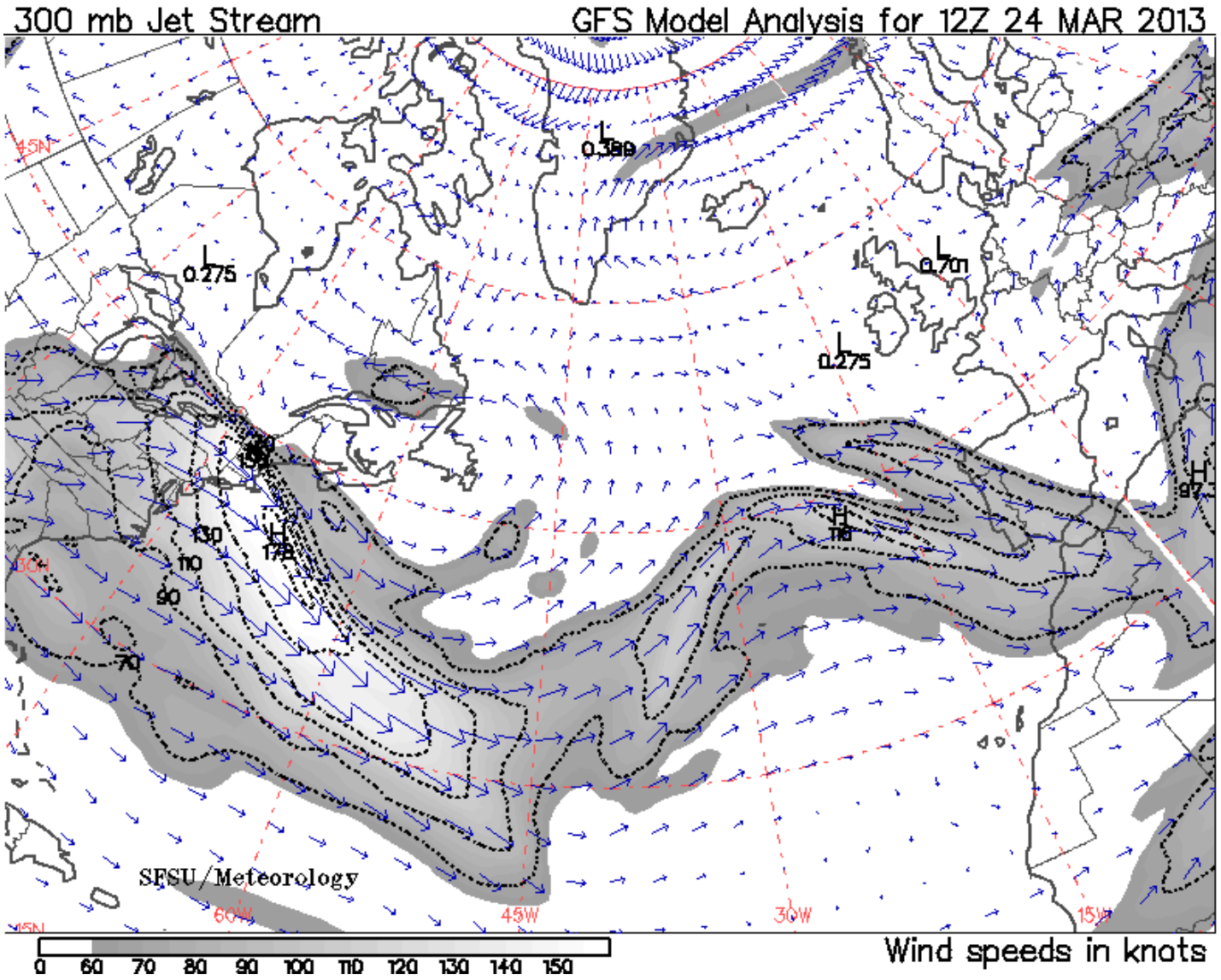

300 mb Jet Stream
GFS Model Analysis for 12Z 20 MAR 2013
0.276
0.701
0.583
0.435
70
110
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

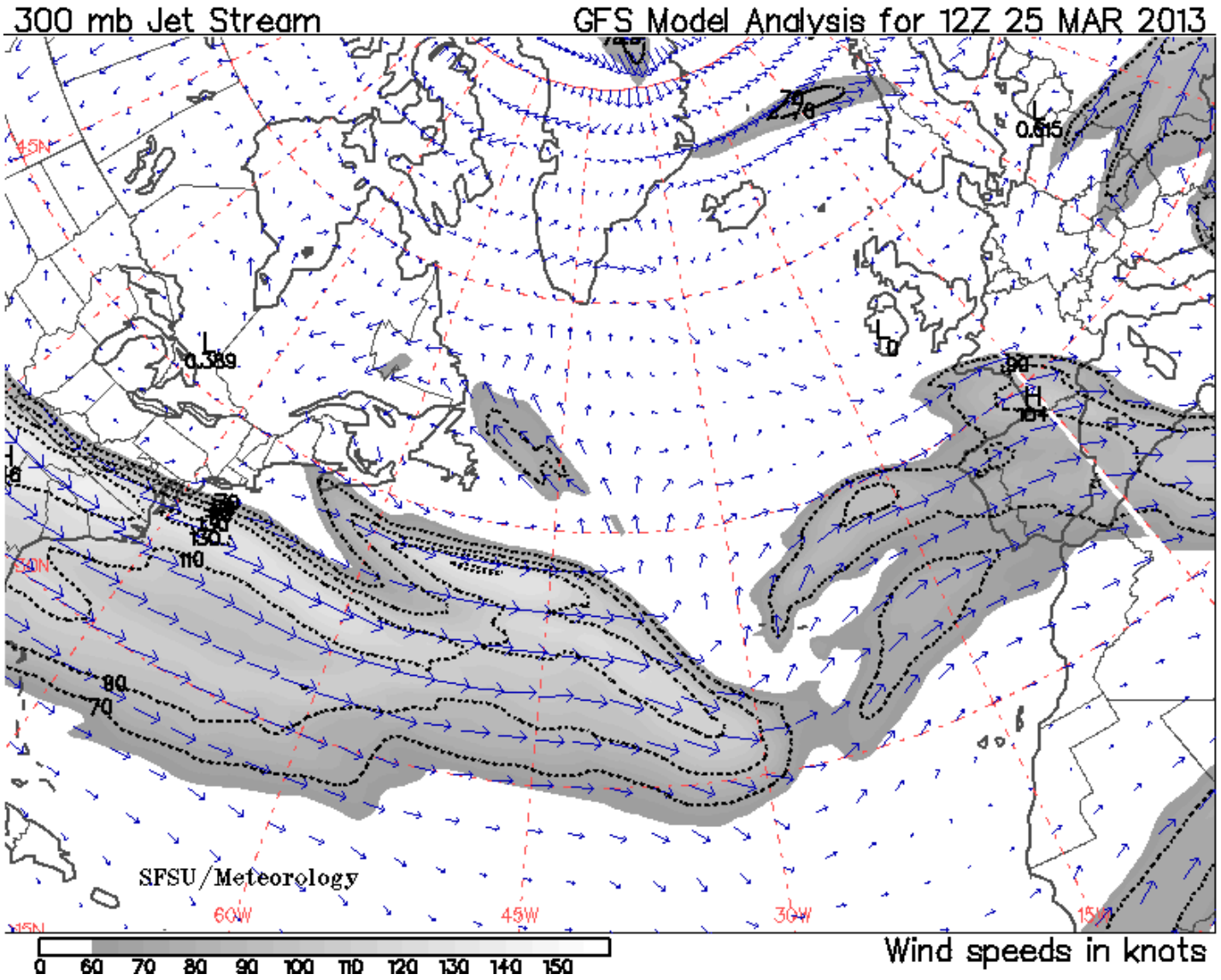
300 mb Jet Stream GFS Model Analysis for 12Z 21 MAR 2013

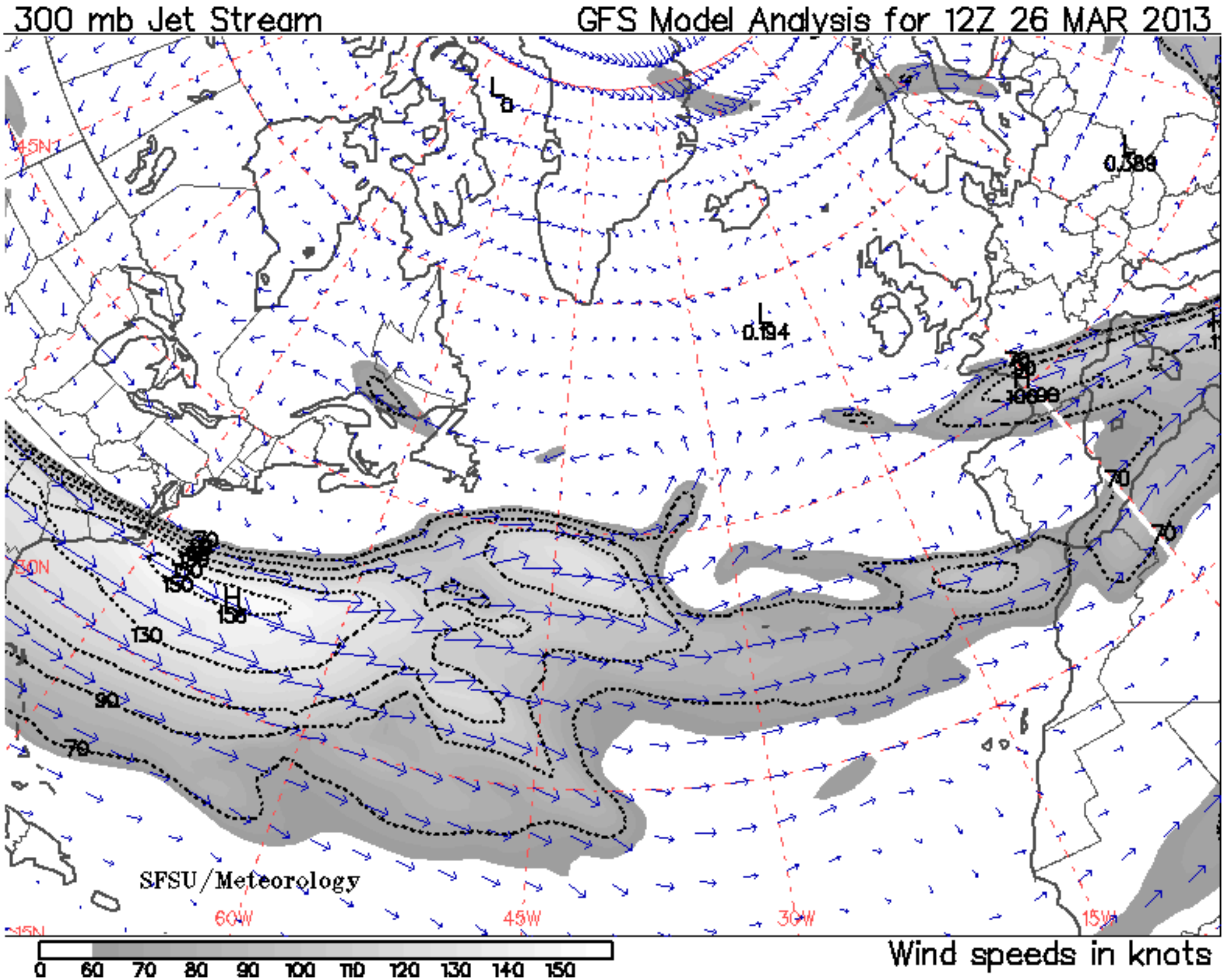


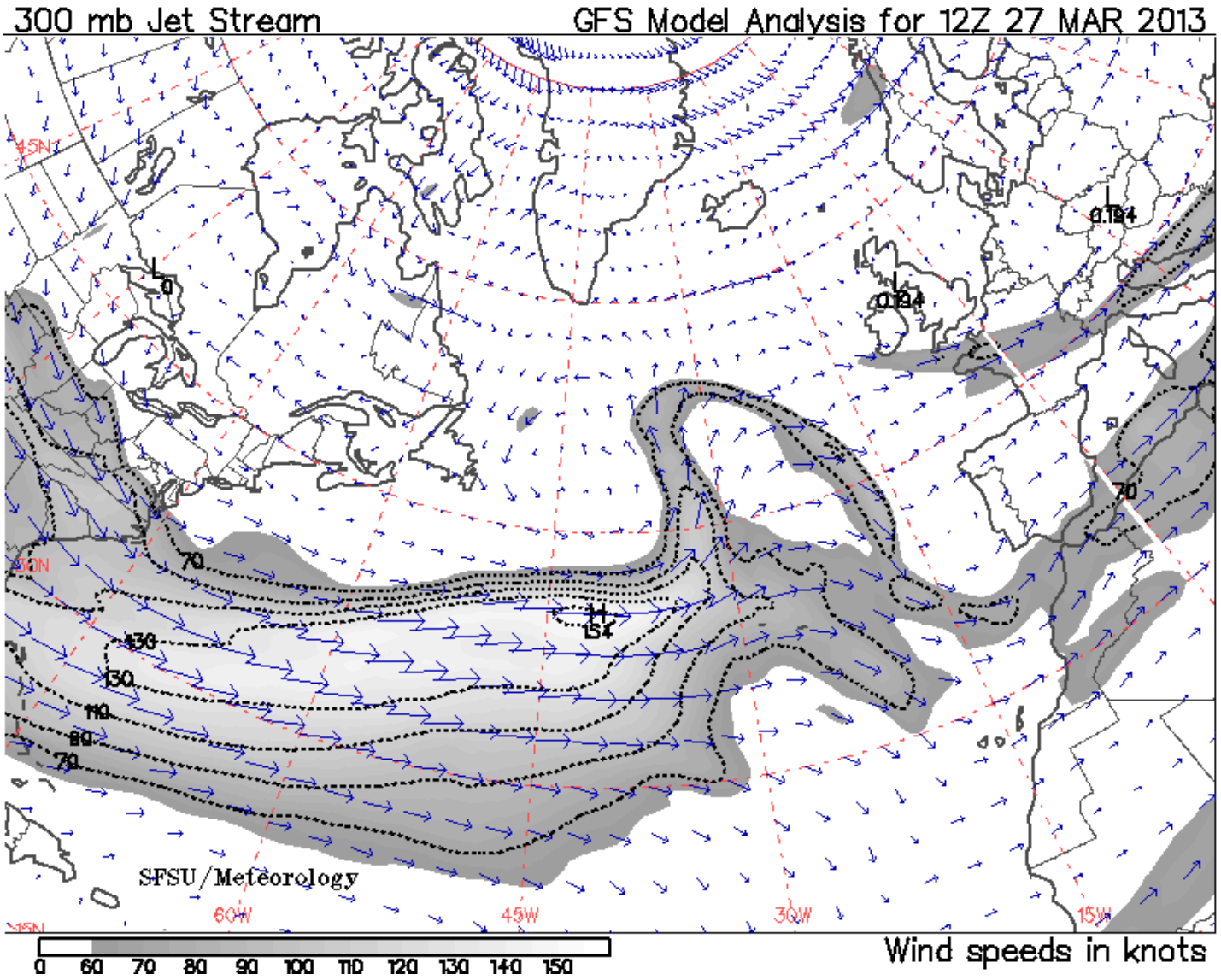

300 mb Jet Stream
GFS Model Analysis for 12Z 22 MAR 2013
SFSU/Meteorology
60W
45W
30W
15W
30N
45N
110
110
110
110
90
70
70
0
60
70
80
90
100
110
120
130
140
150
Wind speeds in knots

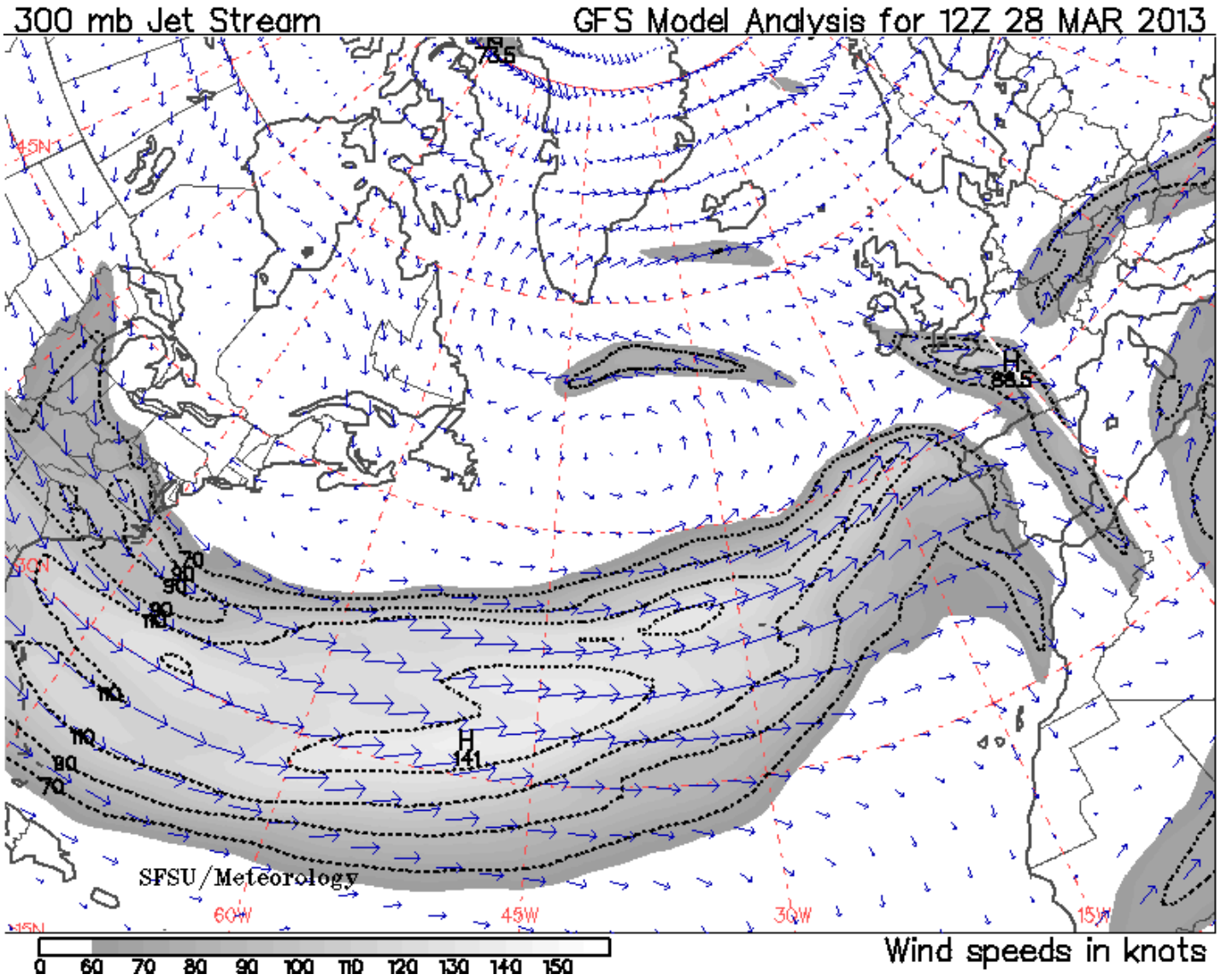

300 mb Jet Stream
GFS Model Analysis for 12Z 23 MAR 2013
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

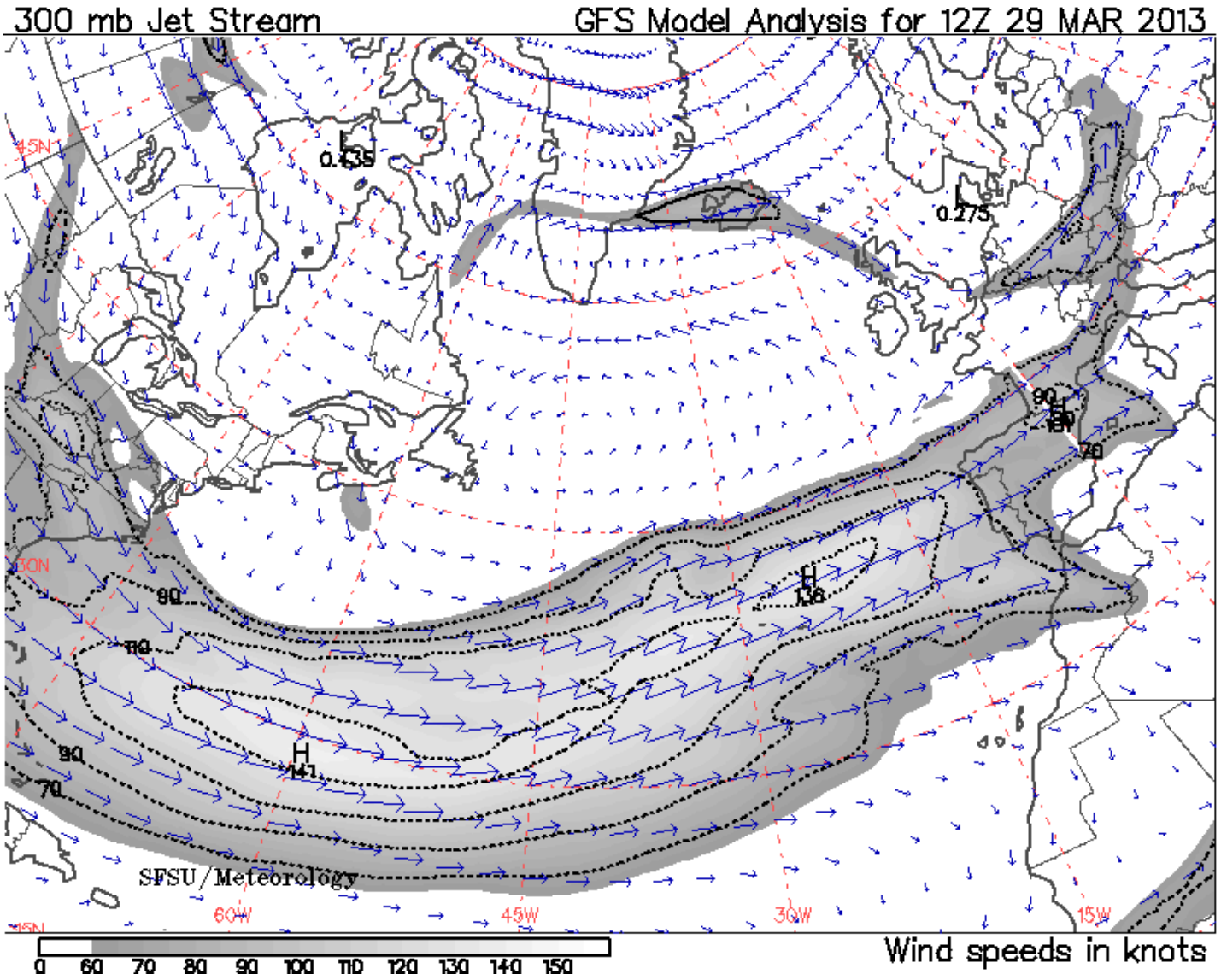

300 mb Jet Stream
GFS Model Analysis for 12Z 24 MAR 2013
0.275
0.701
0.275
130
110
90
70
SFSU/Meteorology
60W
45W
30W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

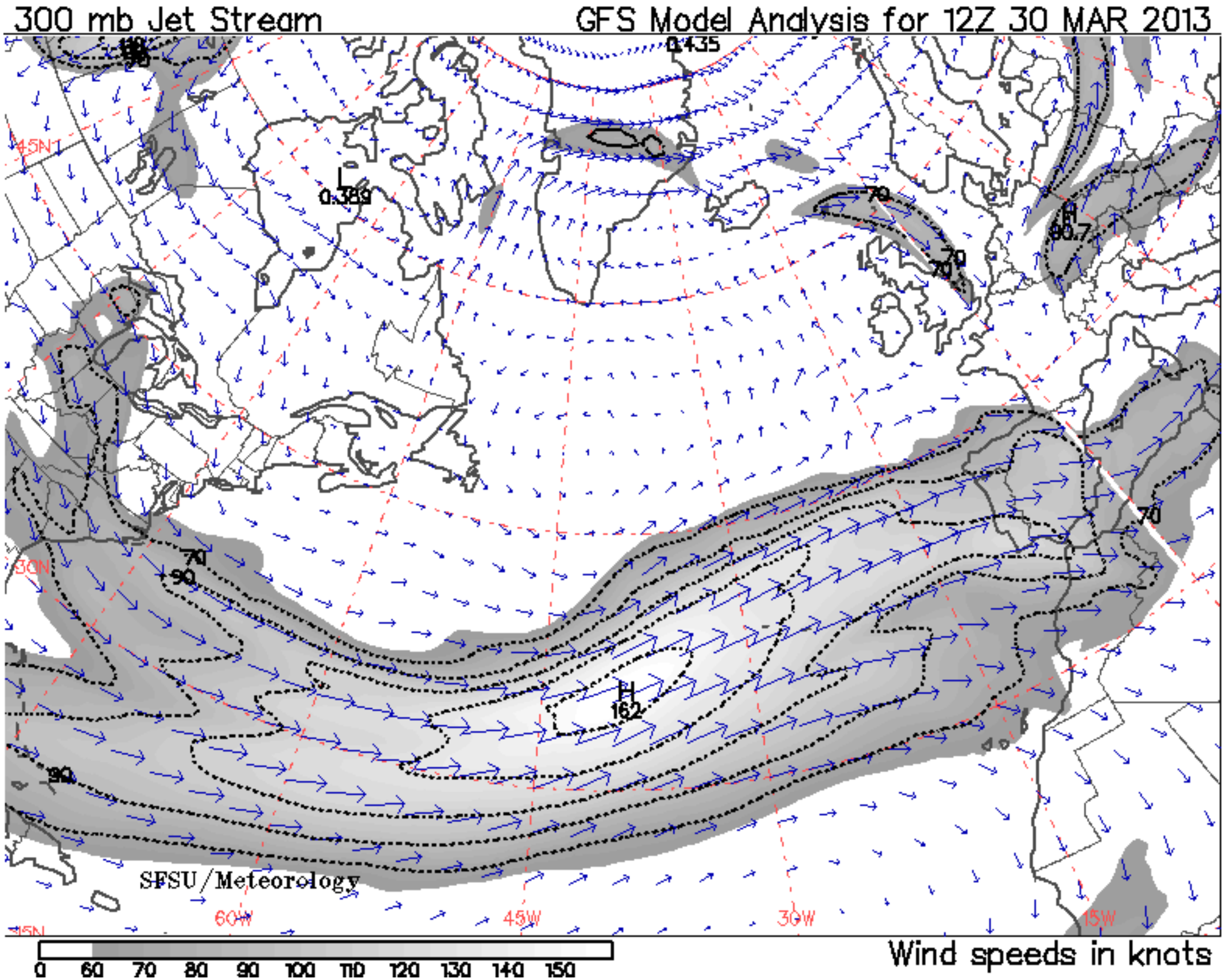

300 mb Jet Stream
GFS Model Analysis for 12Z 25 MAR 2013
SFSU/Meteorology
60W
45W
30W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

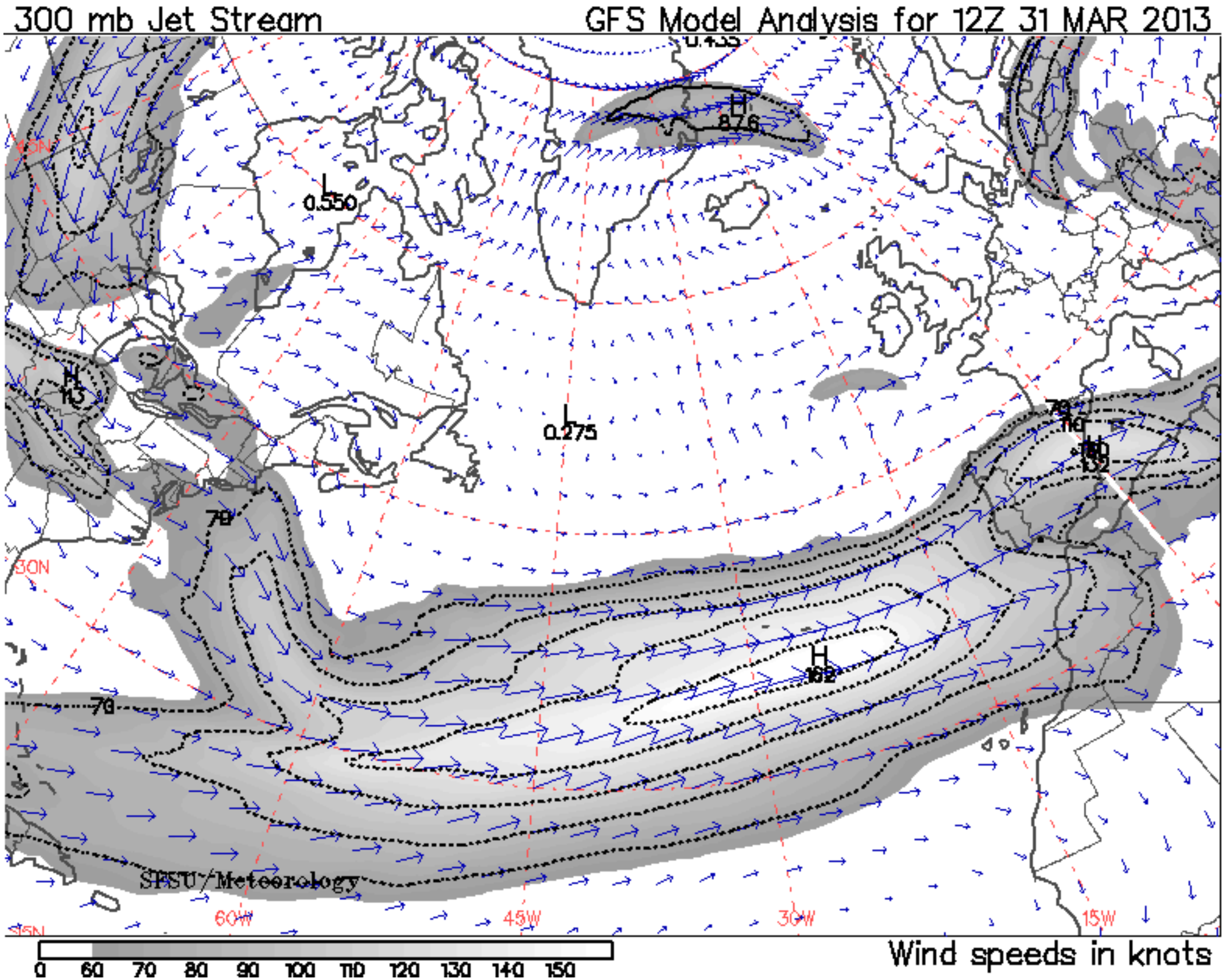

300 mb Jet Stream
GFS Model Analysis for 12Z 26 MAR 2013
SFSU/Meteorology
60W
45W
30W
15W
45N
30N
130
150
90
70
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

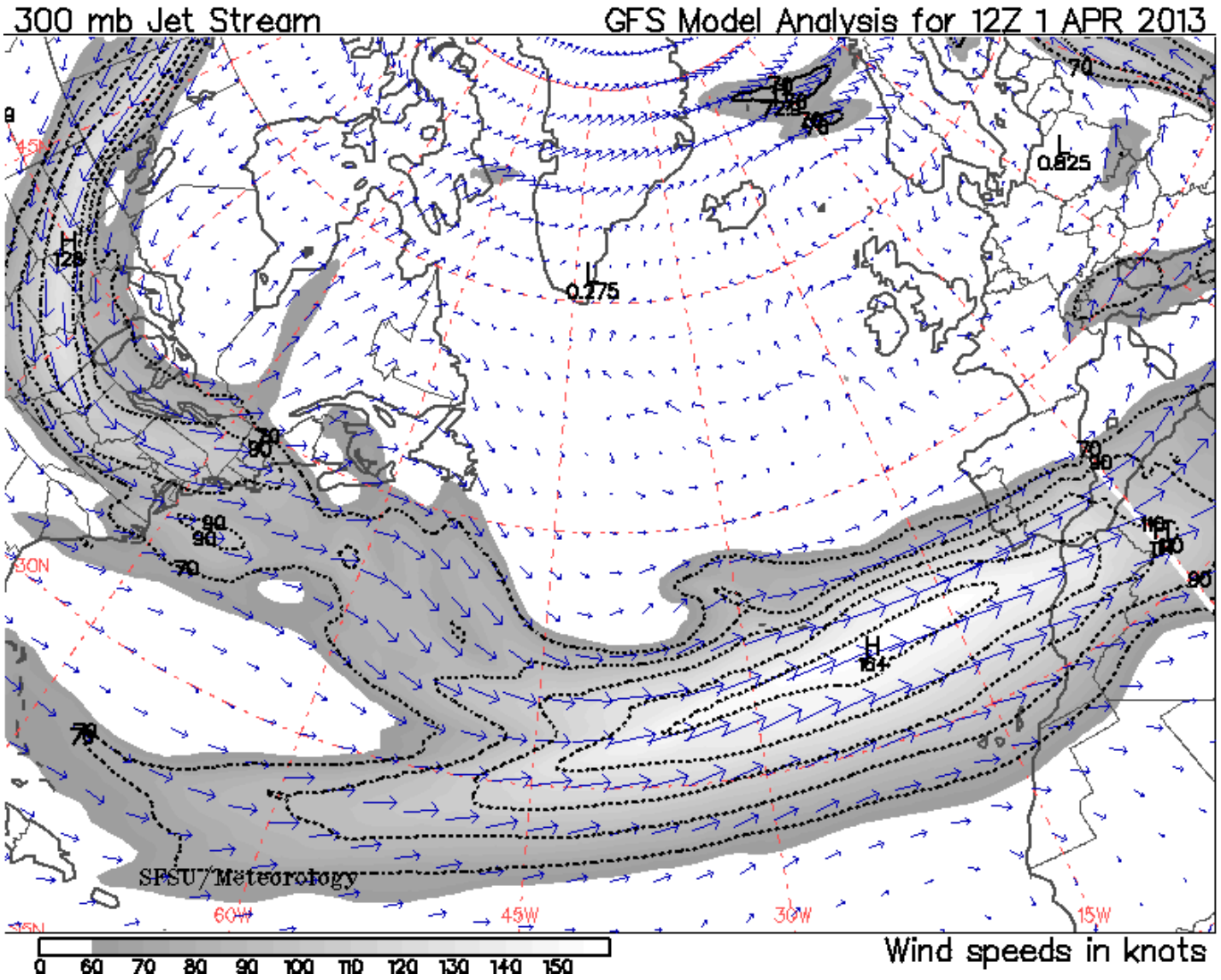

300 mb Jet Stream
GFS Model Analysis for 12Z 27 MAR 2013
45N
30N
15N
60W
45W
30W
15W
L
0
0.194
0.194
70
70
154
130
130
110
90
70
SFSU/Meteorology
0
60
70
80
90
100
110
120
130
140
150
Wind speeds in knots

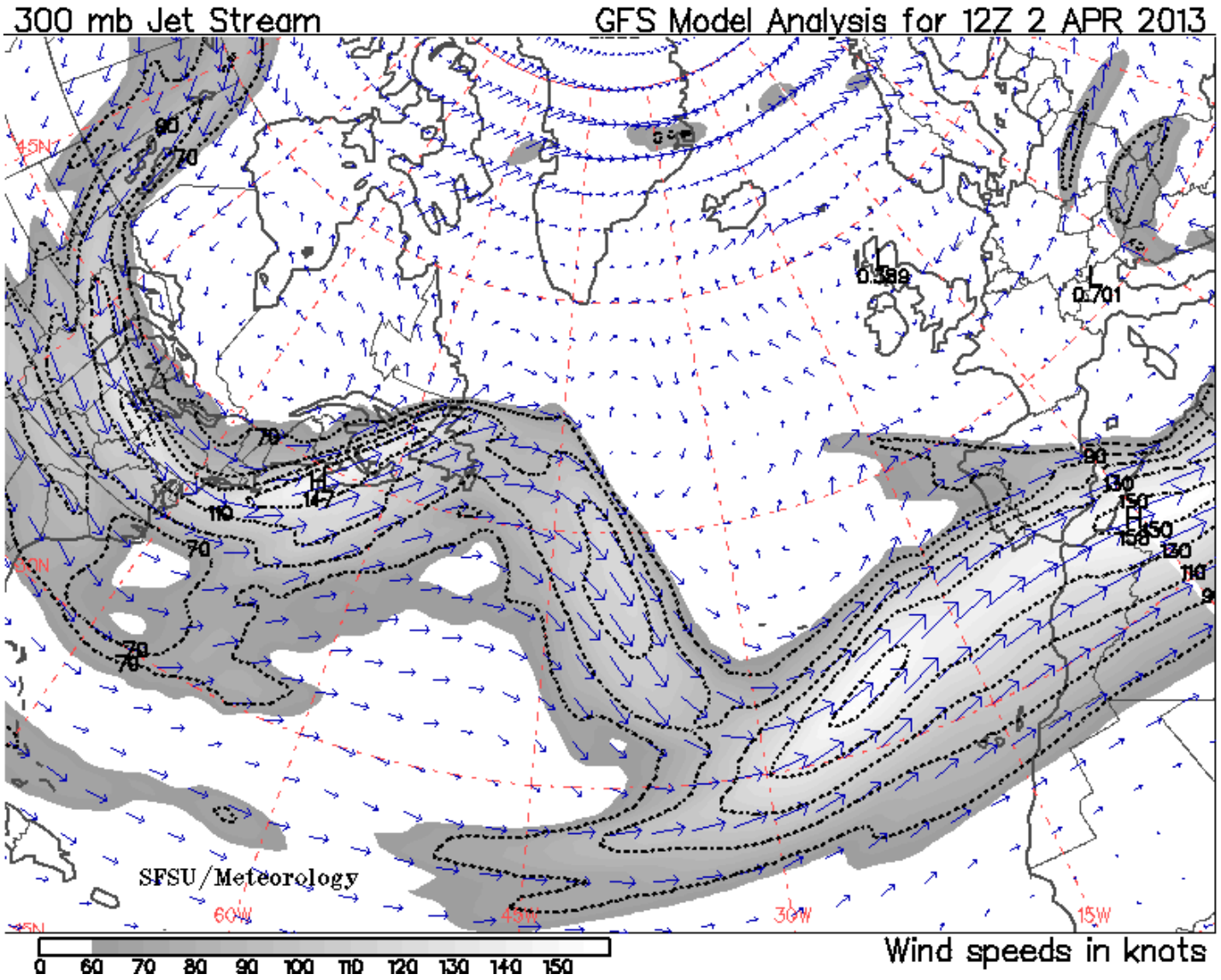

300 mb Jet Stream
GFS Model Analysis for 12Z 28 MAR 2013
H
85.5
H
141
70
90
110
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

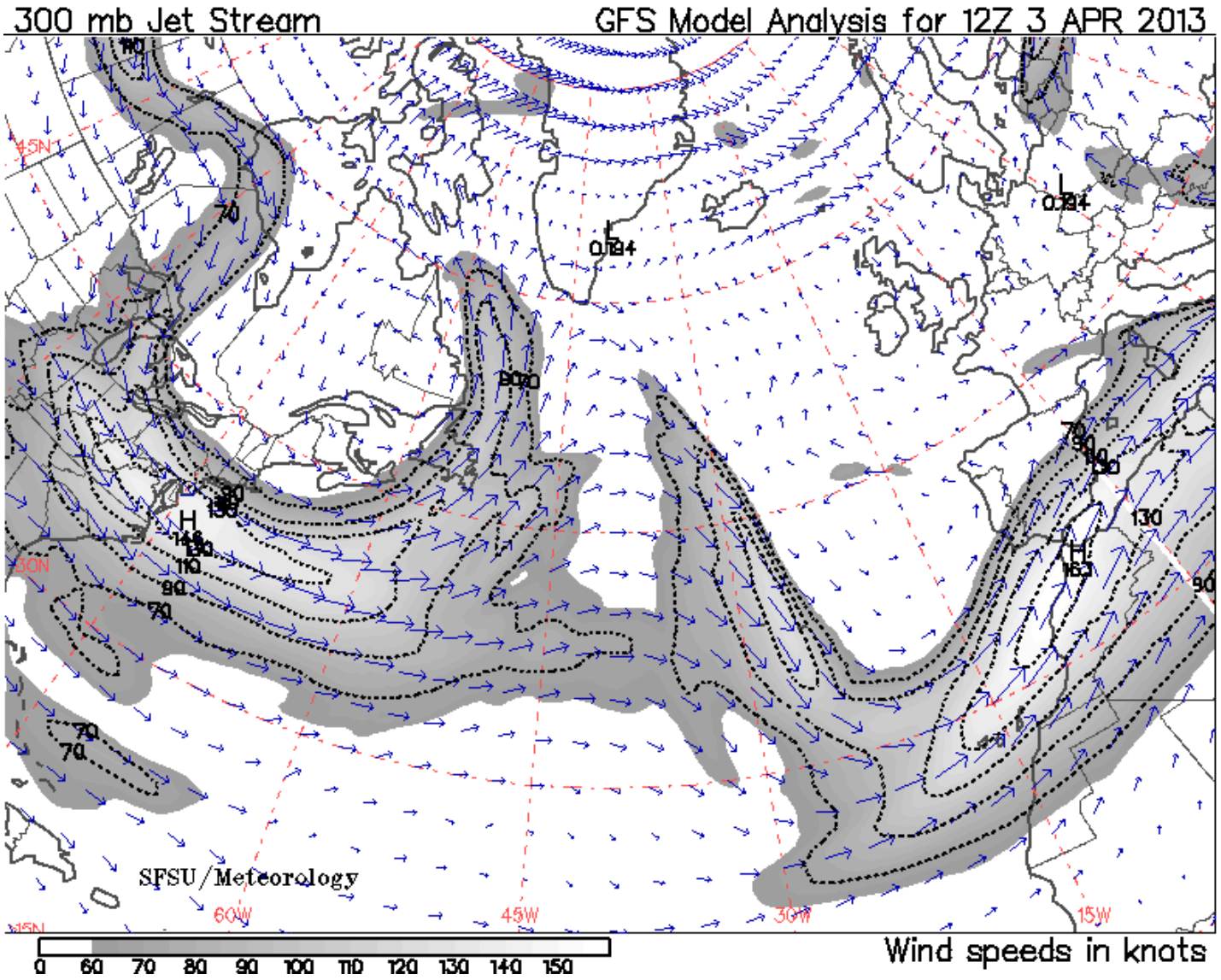

300 mb Jet Stream
GFS Model Analysis for 12Z 29 MAR 2013
45N
30N
L
0.435
L
0.275
90
70
H
136
90
110
90
H
141
70
SFSU/Meteorology
60W
45W
30W
15W
0
60
70
80
90
100
110
120
130
140
150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 30 MAR 2013
L
0.389
0.435
H
90.7
H
162
70
90
45N
30N
60W
45W
30W
15W
SFSU/Meteorology
0
60
70
80
90
100
110
120
130
140
150
Wind speeds in knots

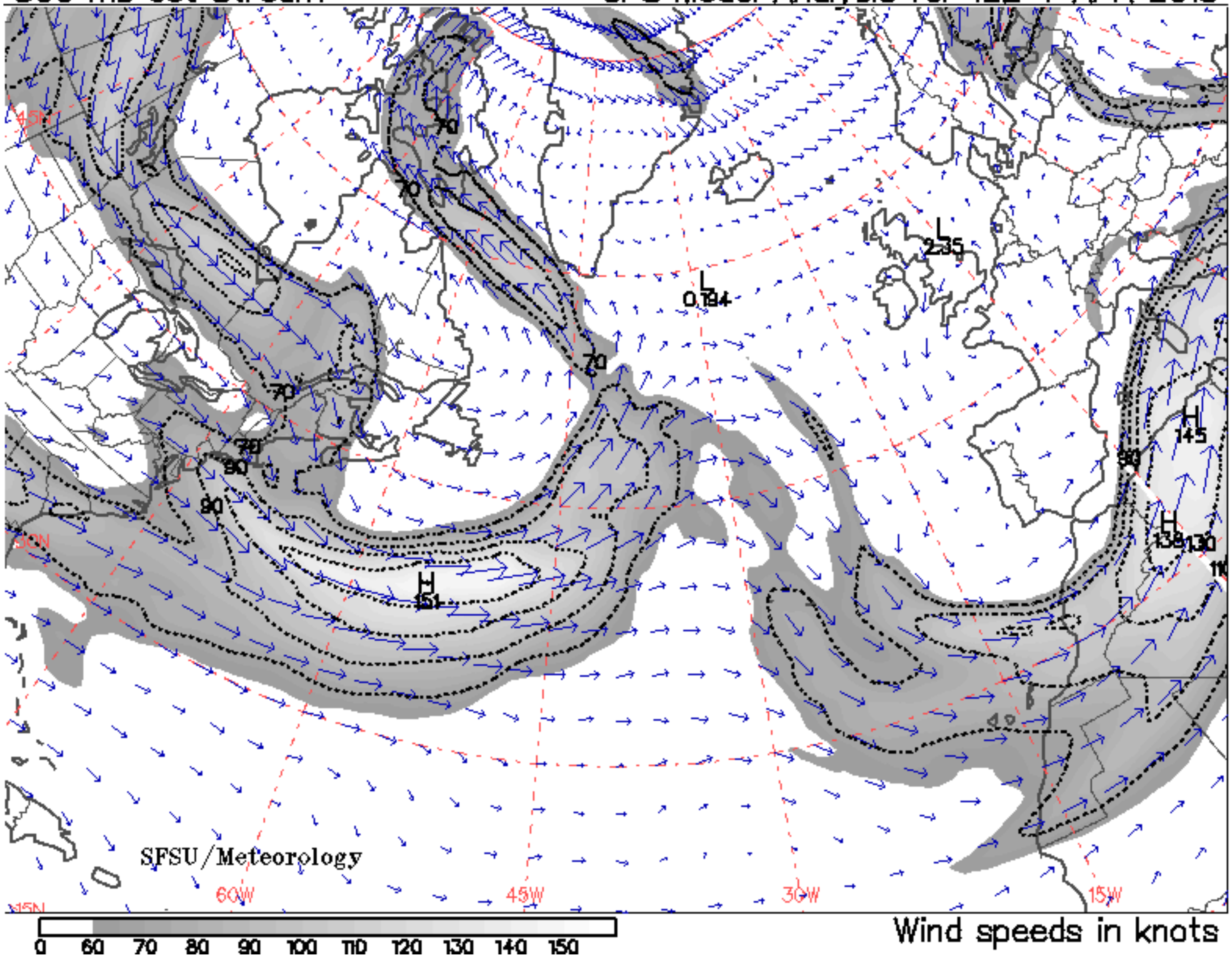

300 mb Jet Stream
GFS Model Analysis for 12Z 31 MAR 2013
SFSU/Meteorology
60W
45W
30W
15W
30N
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

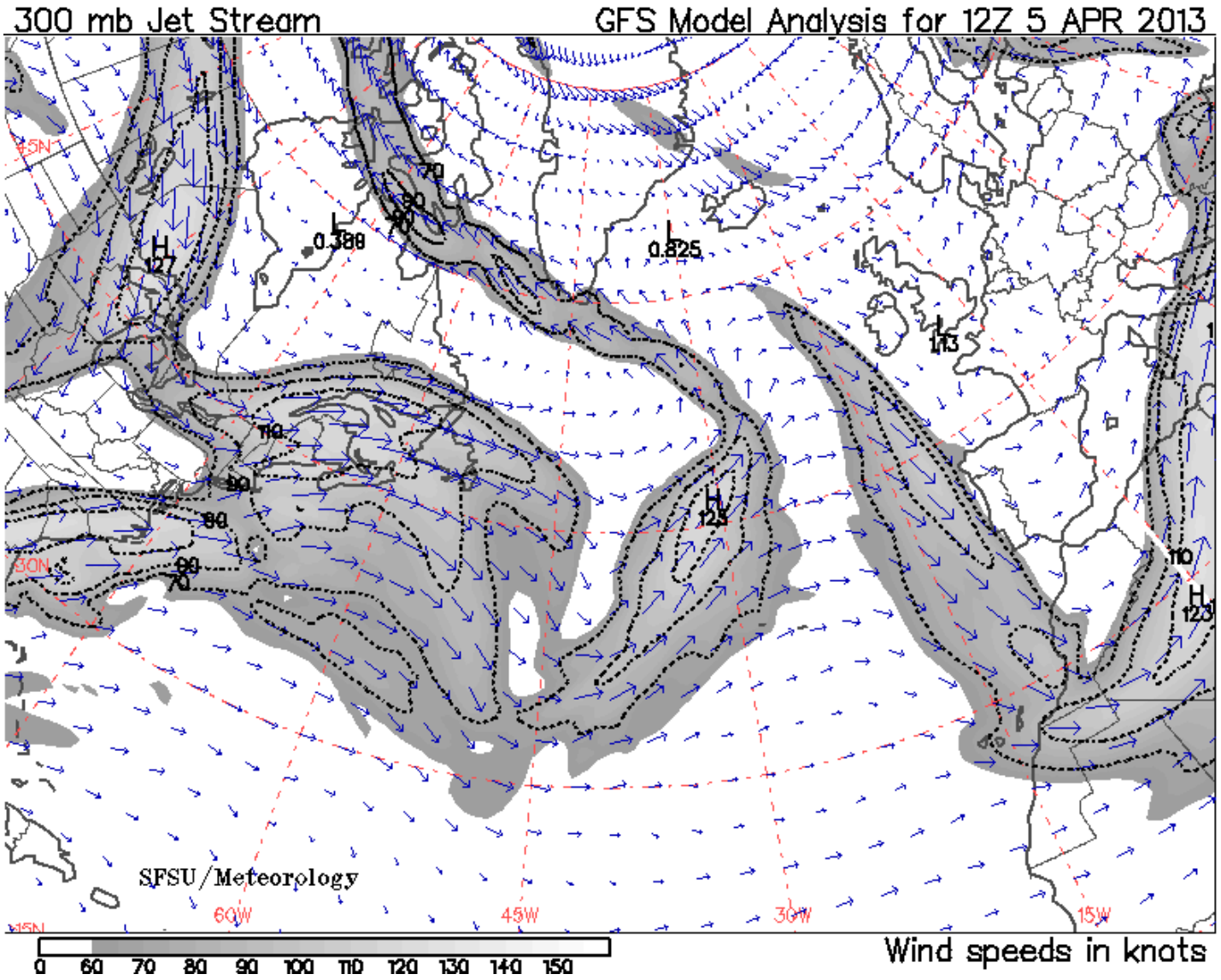

300 mb Jet Stream
GFS Model Analysis for 12Z 1 APR 2013
SPSU/Meteorology
60W
45W
30W
15W
30N
45N
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

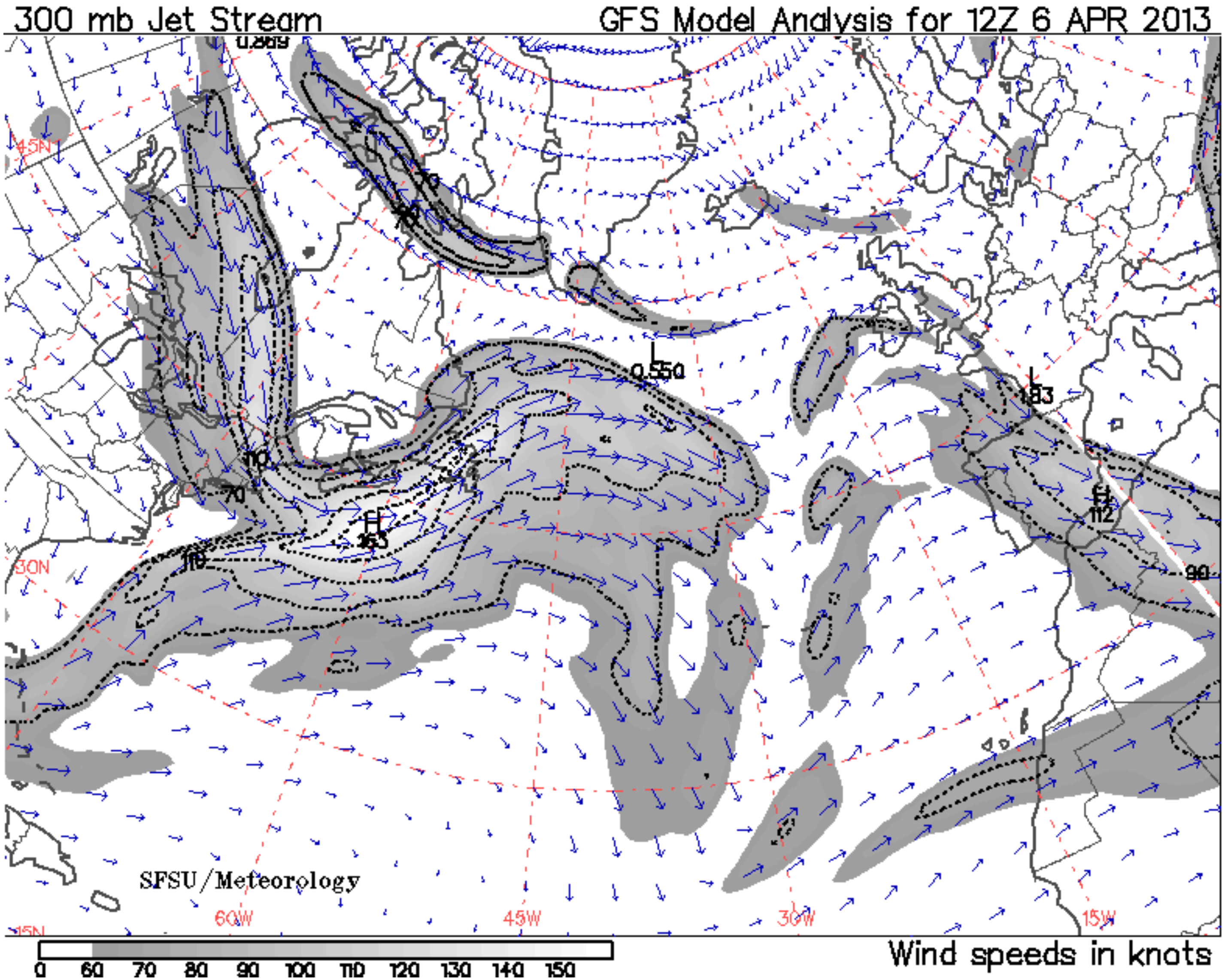

300 mb Jet Stream
GFS Model Analysis for 12Z 2 APR 2013
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

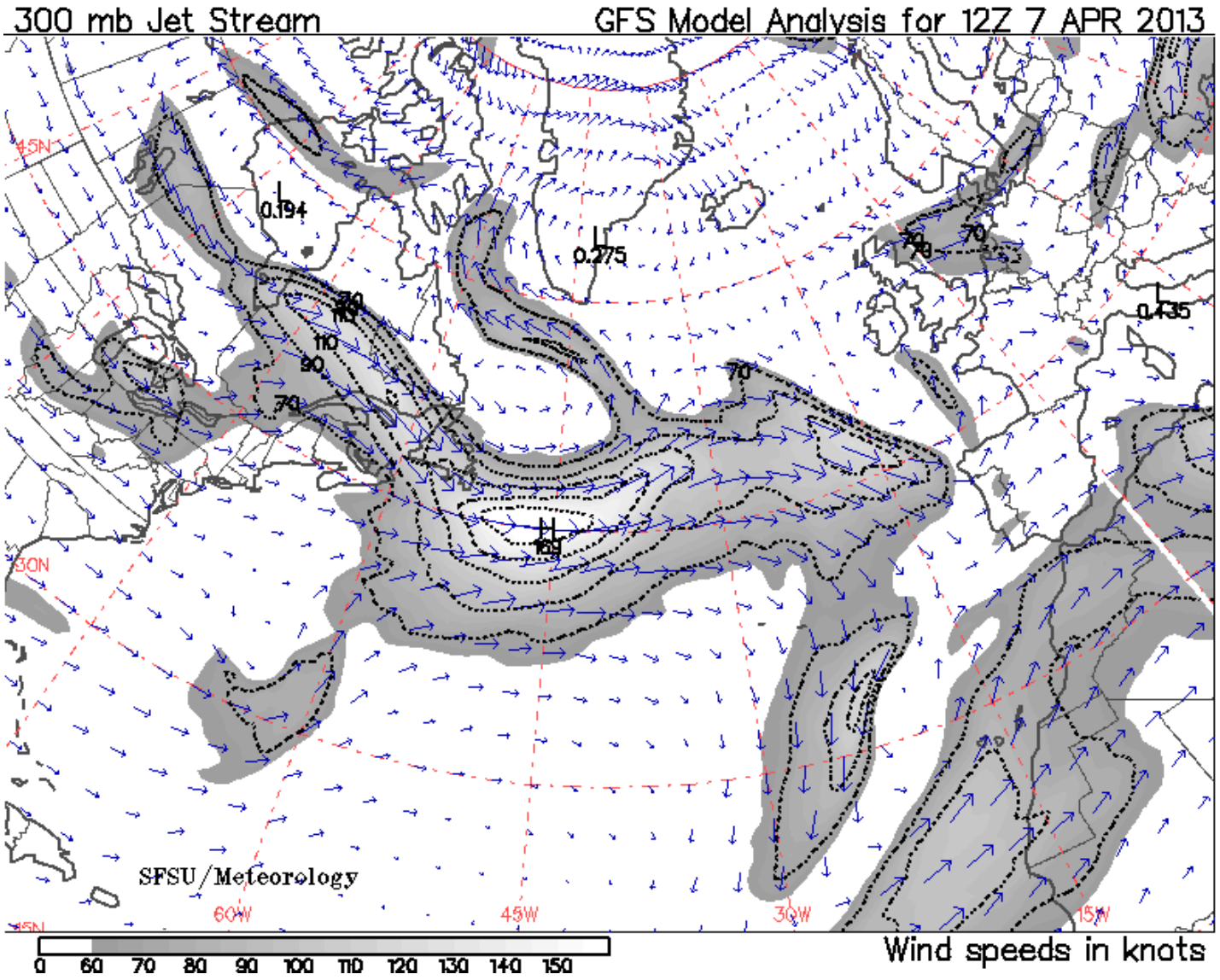

300 mb Jet Stream
GFS Model Analysis for 12Z 3 APR 2013
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

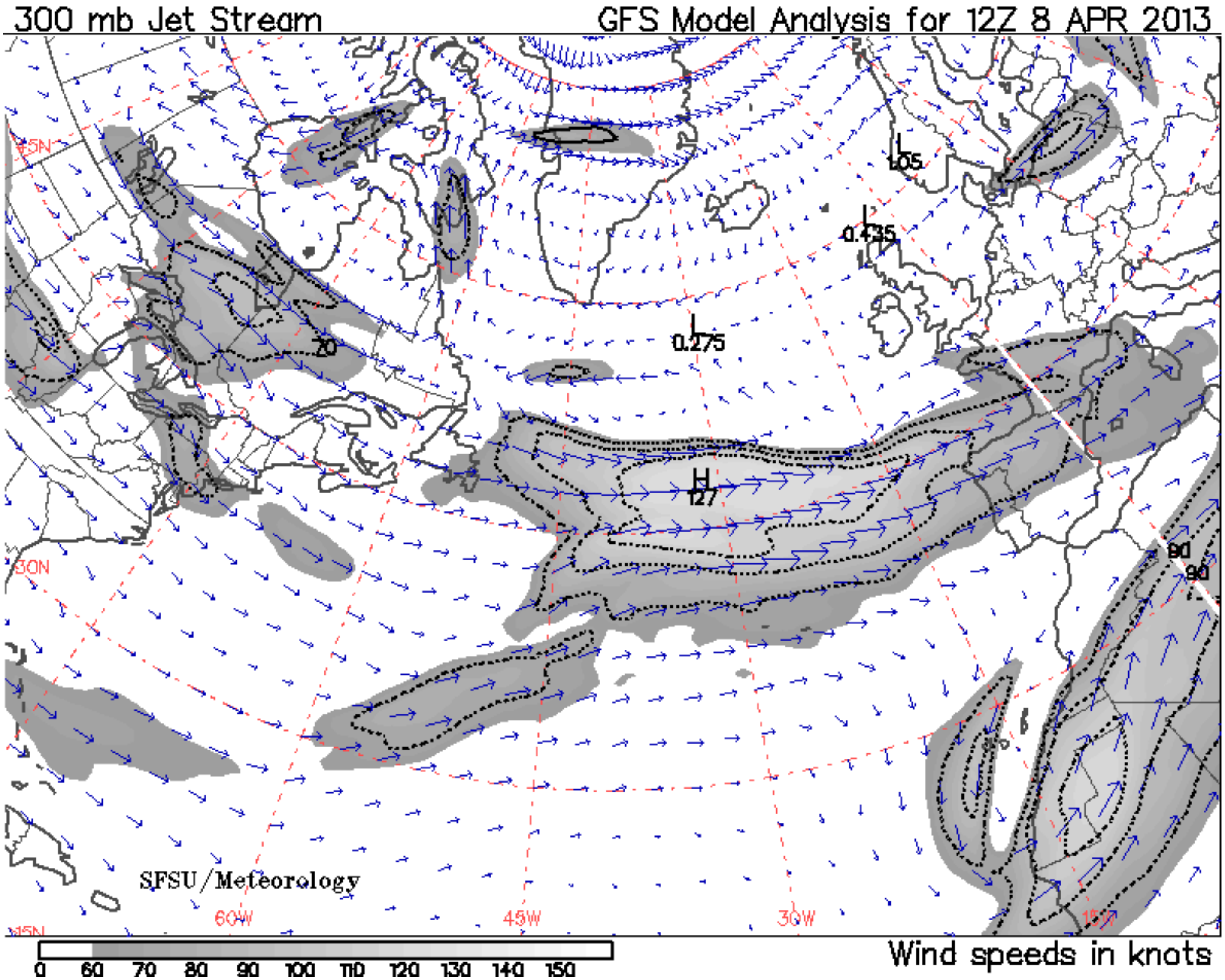
300 mb Jet Stream GFS Model Analysis for 12Z 4 APR 2013



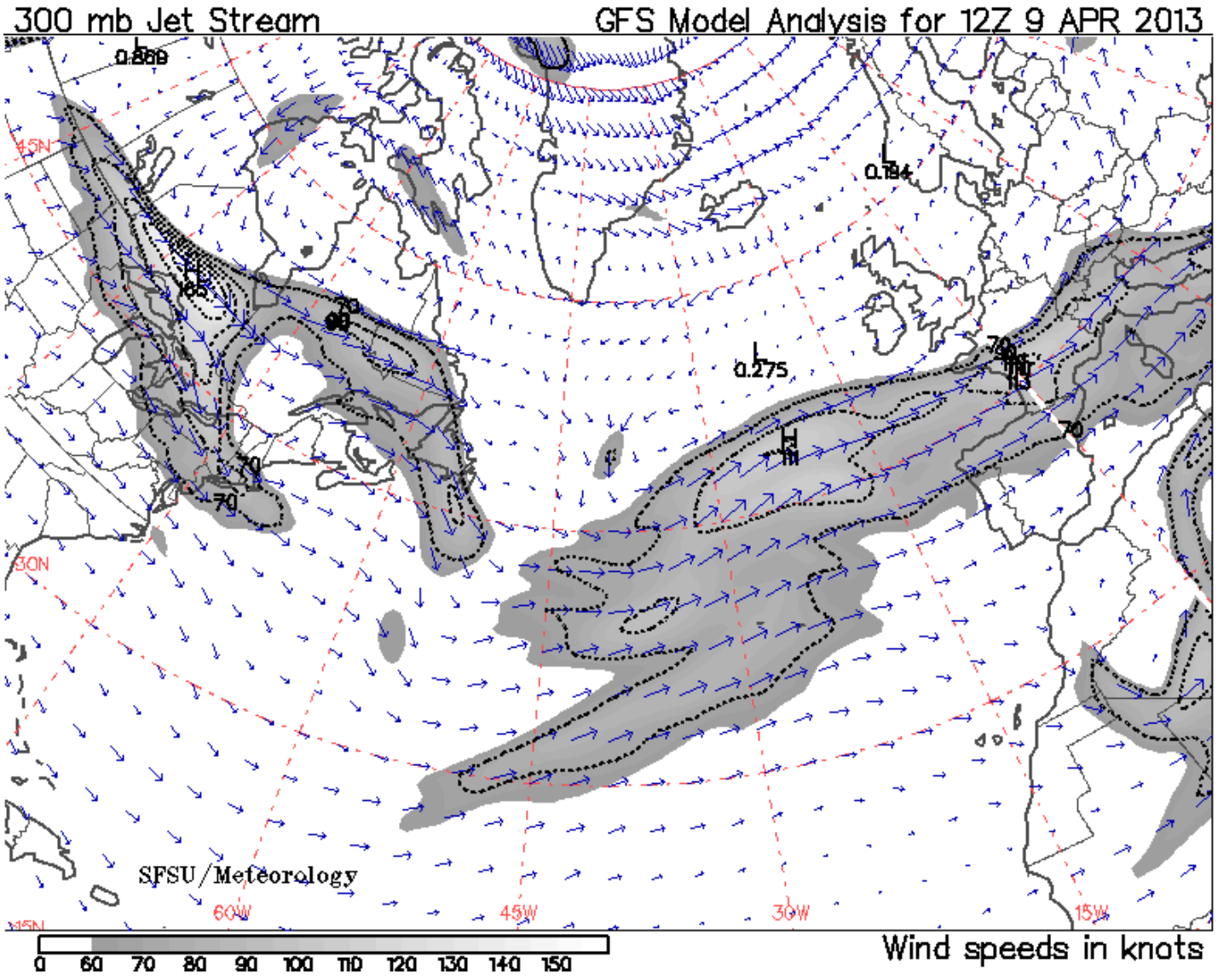

300 mb Jet Stream
GFS Model Analysis for 12Z 5 APR 2013
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

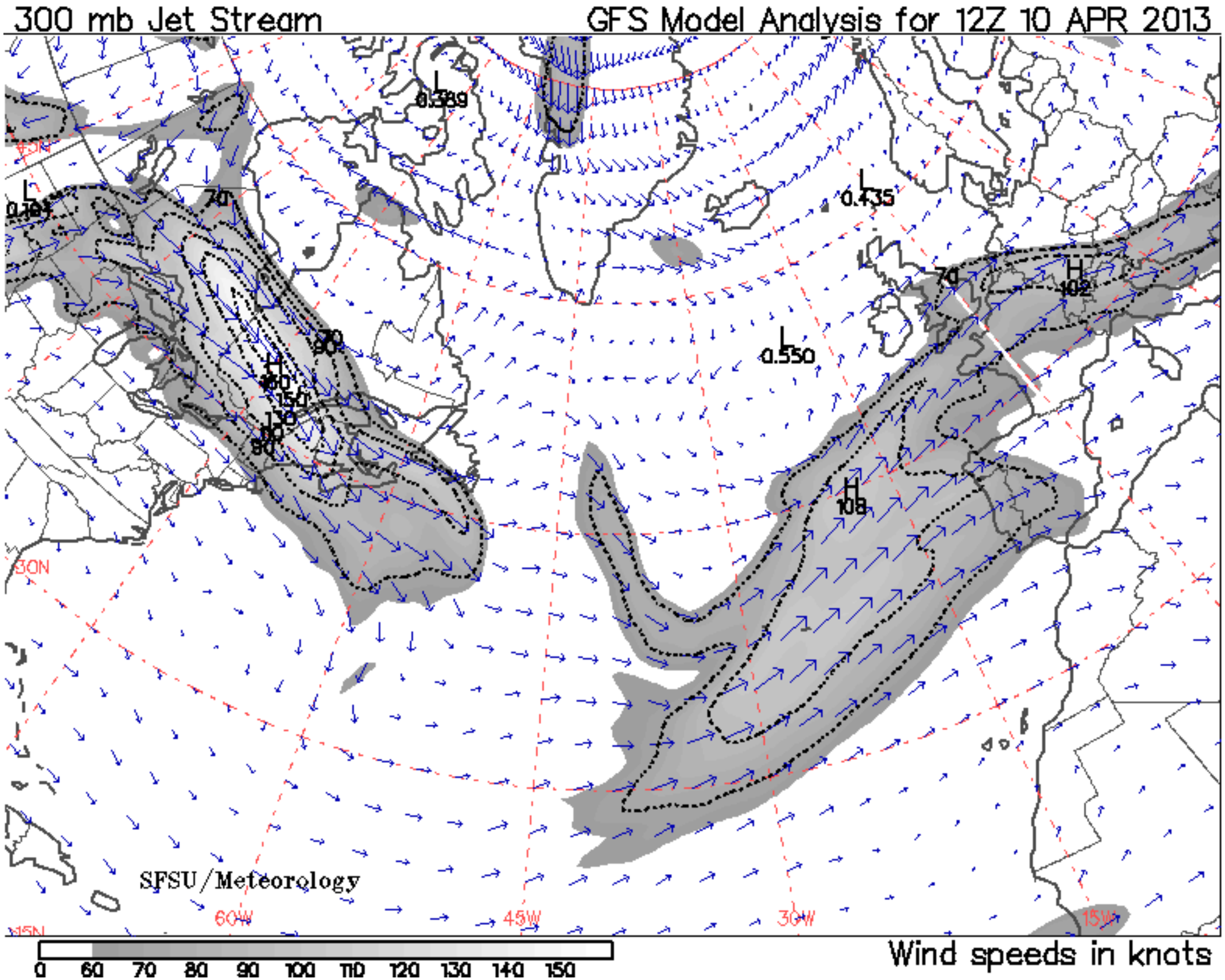

300 mb Jet Stream
GFS Model Analysis for 12Z 6 APR 2013
SFSU/Meteorology
45N
30N
60W
45W
30W
15W
0.550
163
112
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 7 APR 2013
45N
30N
0.194
0.275
0.435
70
90
110
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

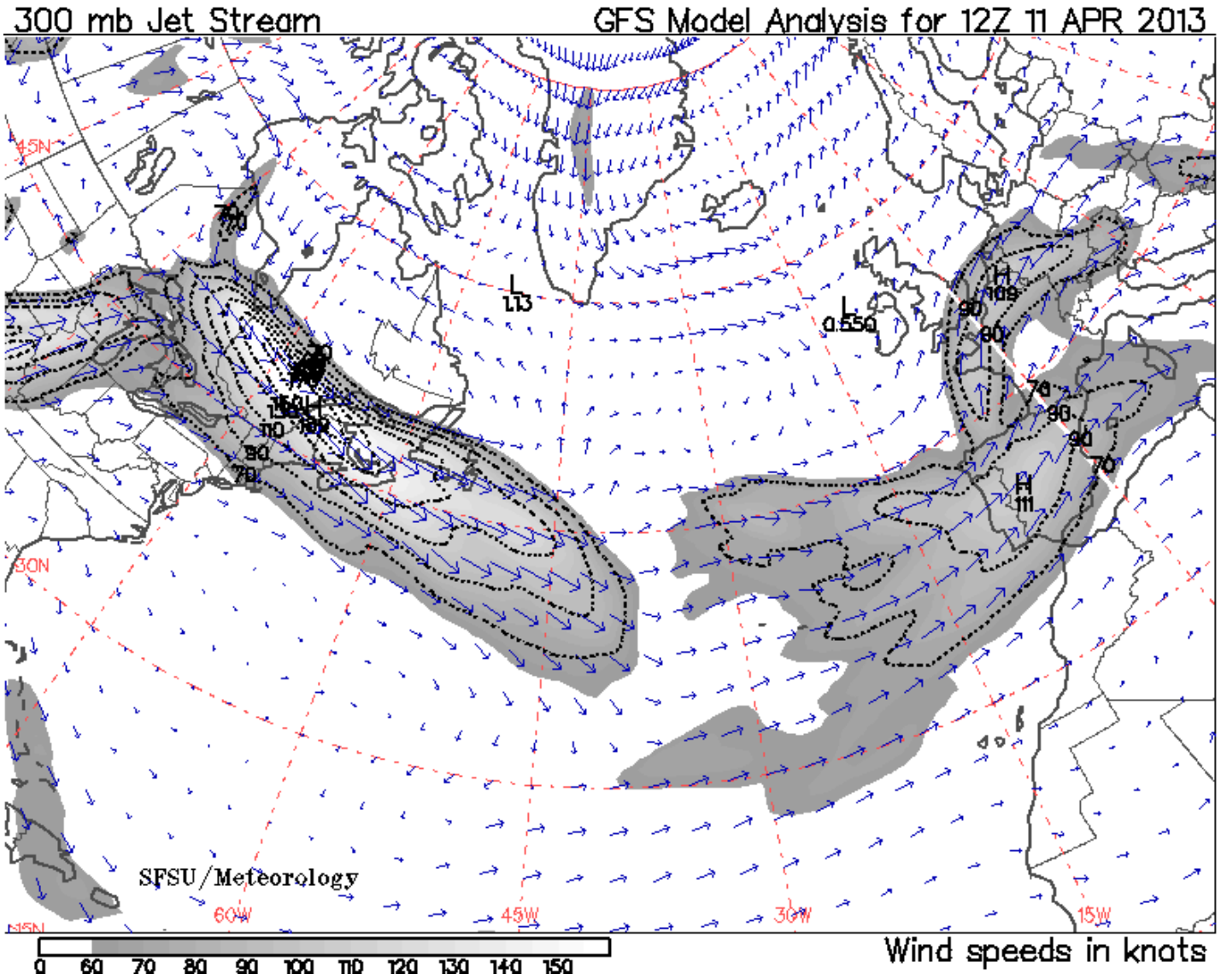


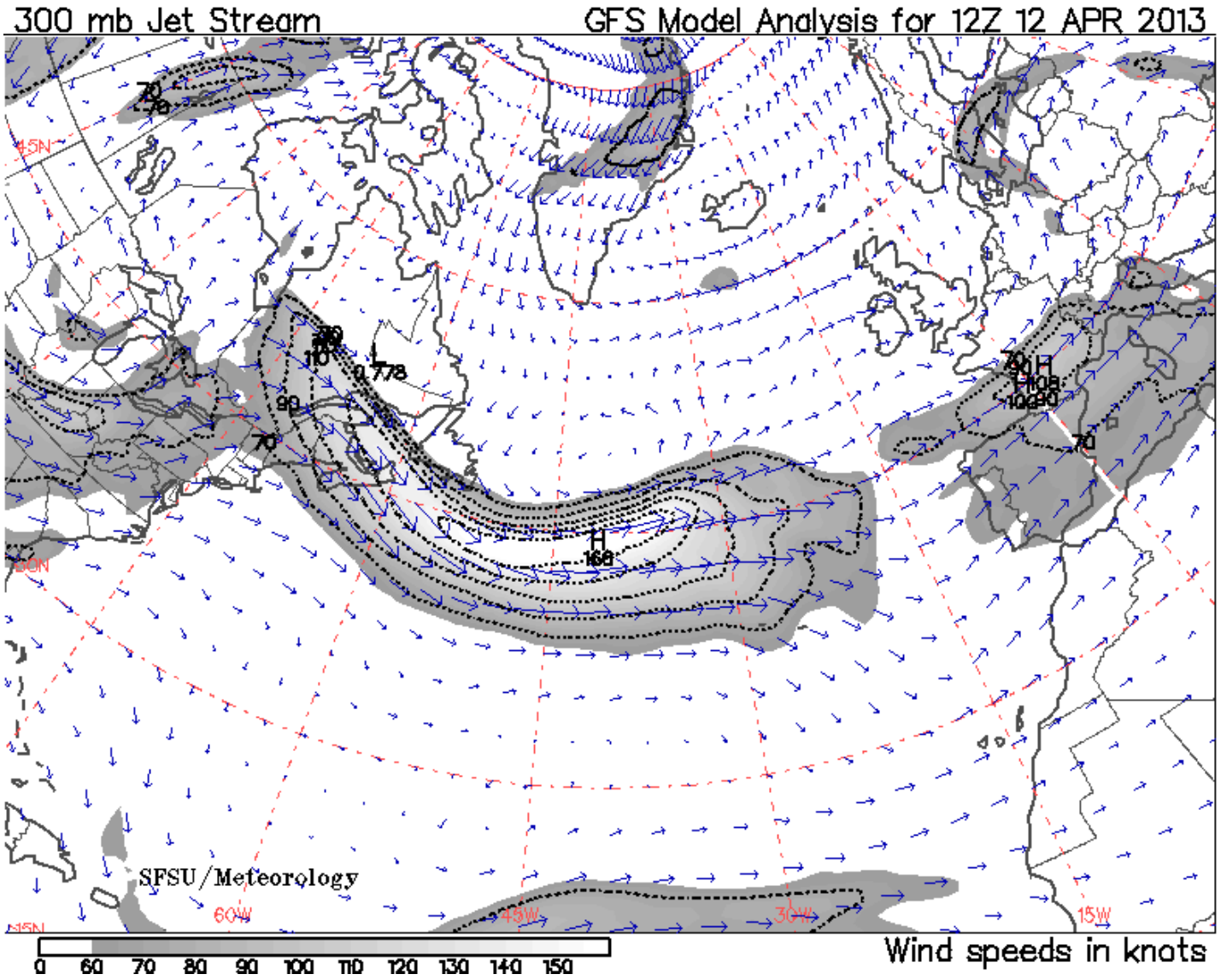
300 mb Jet Stream
GFS Model Analysis for 12Z 8 APR 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150
60W
45W
30W
15W
45N
30N
H 127
L 0.275
L 0.435
L 105
70
90
90

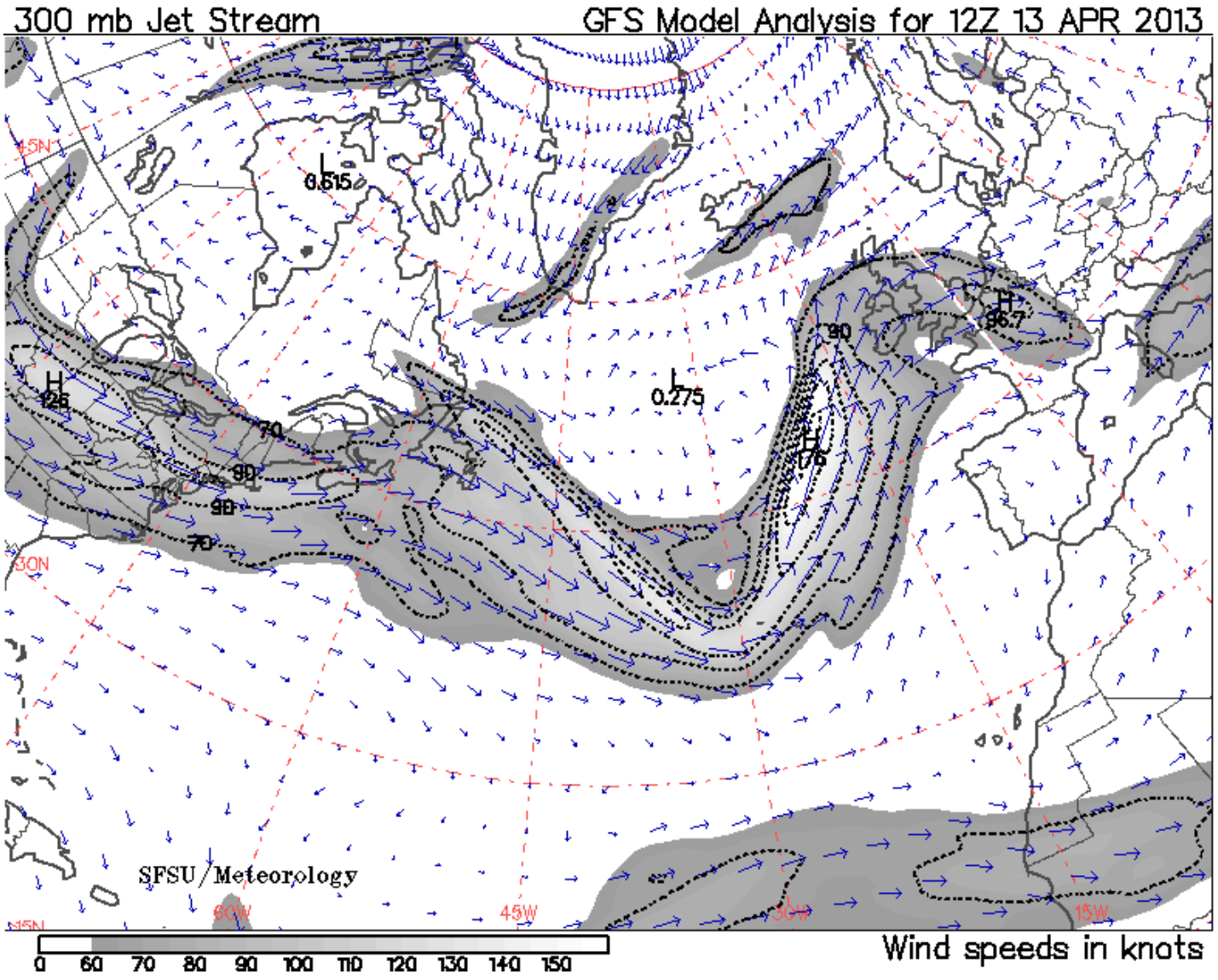

300 mb Jet Stream
GFS Model Analysis for 12Z 9 APR 2013
0.869
0.794
0.275
45N
30N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

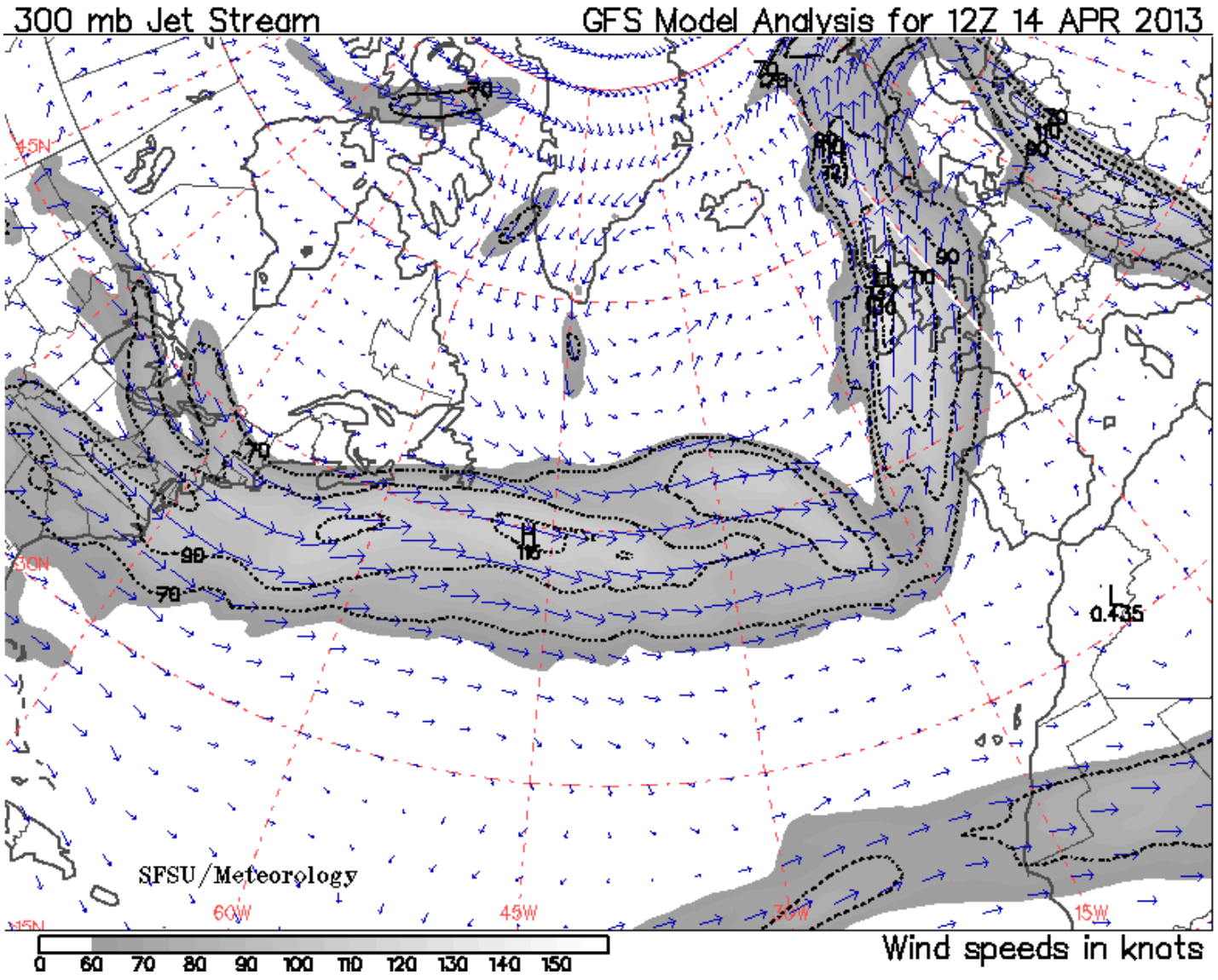


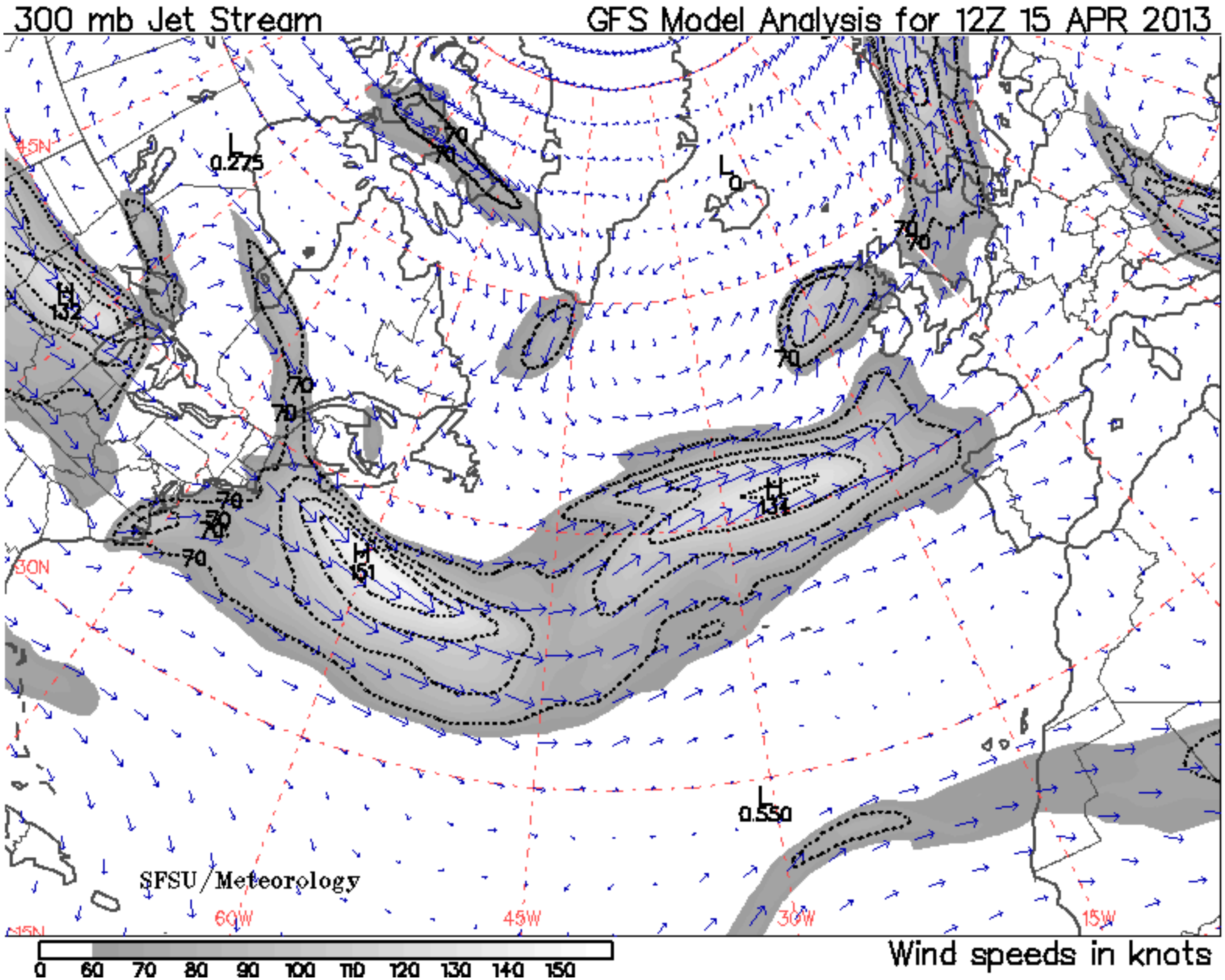
300 mb Jet Stream
GFS Model Analysis for 12Z 10 APR 2013
SFSU/Meteorology
60W
45W
30W
15W
30N
0
60
70
80
90
100
110
120
130
140
150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 11 APR 2013
45N
30N
15N
60W
45W
30W
15W
L
1013
L
0550
H
1089
H
1111
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

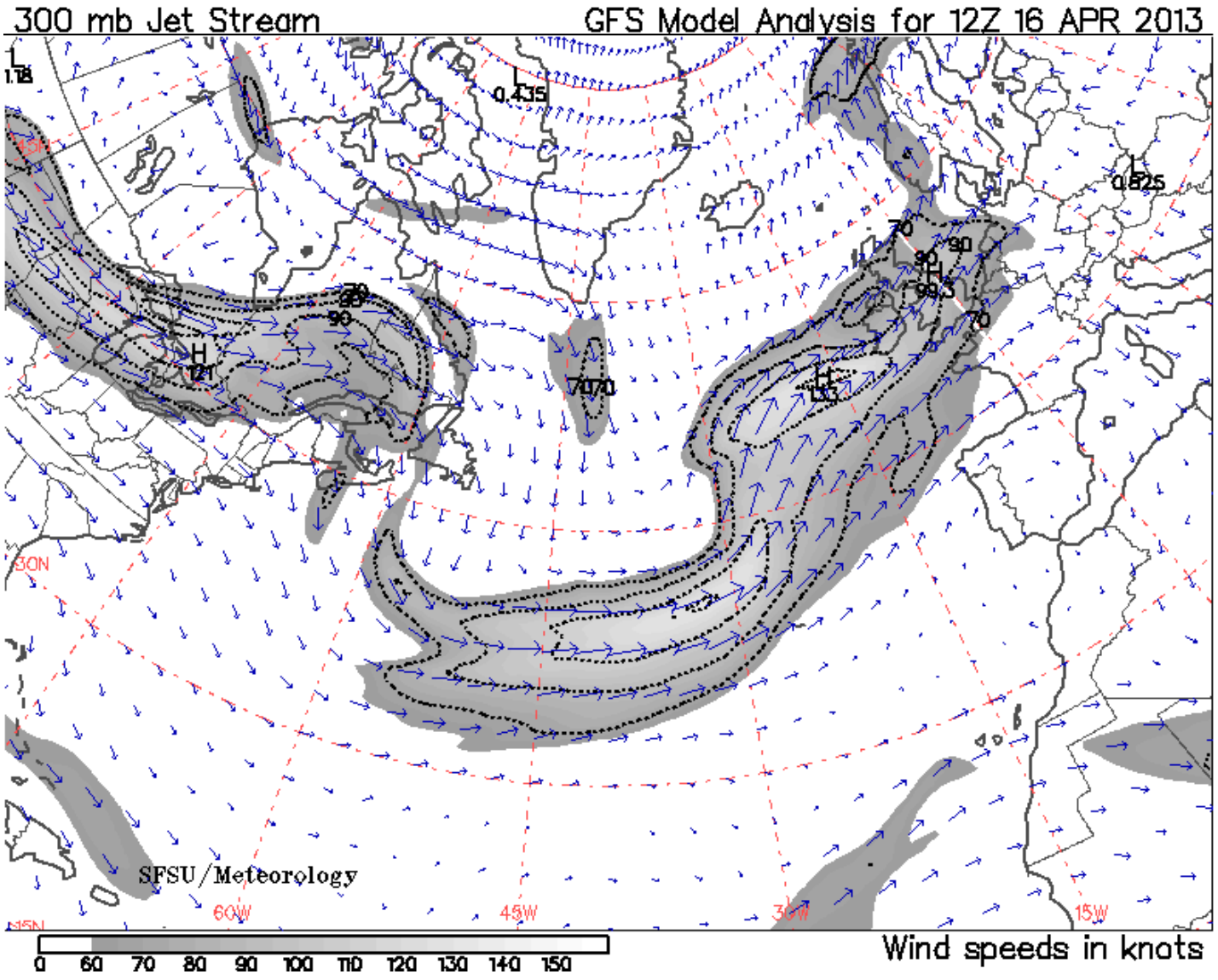

300 mb Jet Stream
GFS Model Analysis for 12Z 12 APR 2013
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

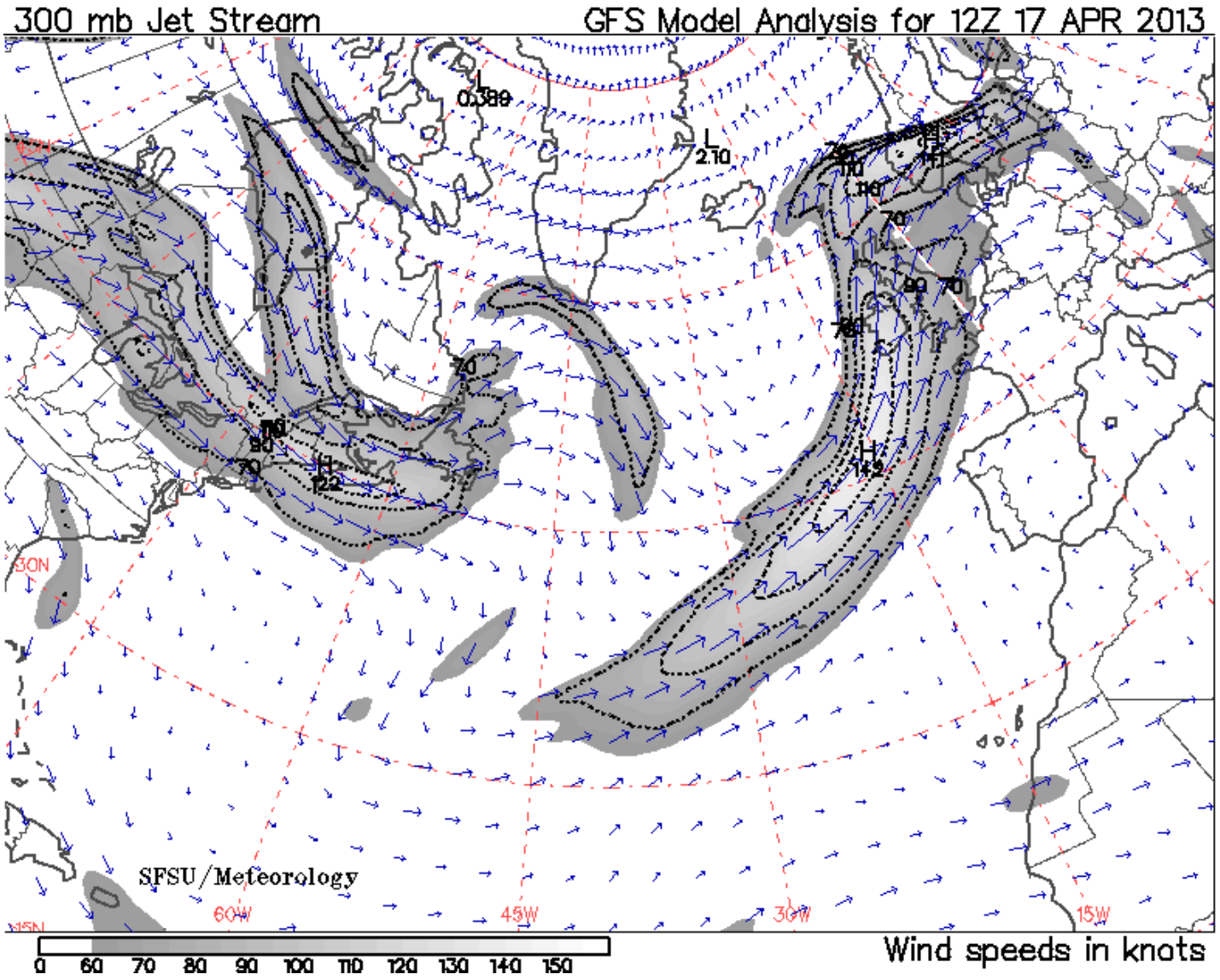

300 mb Jet Stream
GFS Model Analysis for 12Z 13 APR 2013
45N
30N
60W
45W
30W
15W
L
0.515
L
0.275
H
126
H
96.7
H
976
90
70
90
90
70
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

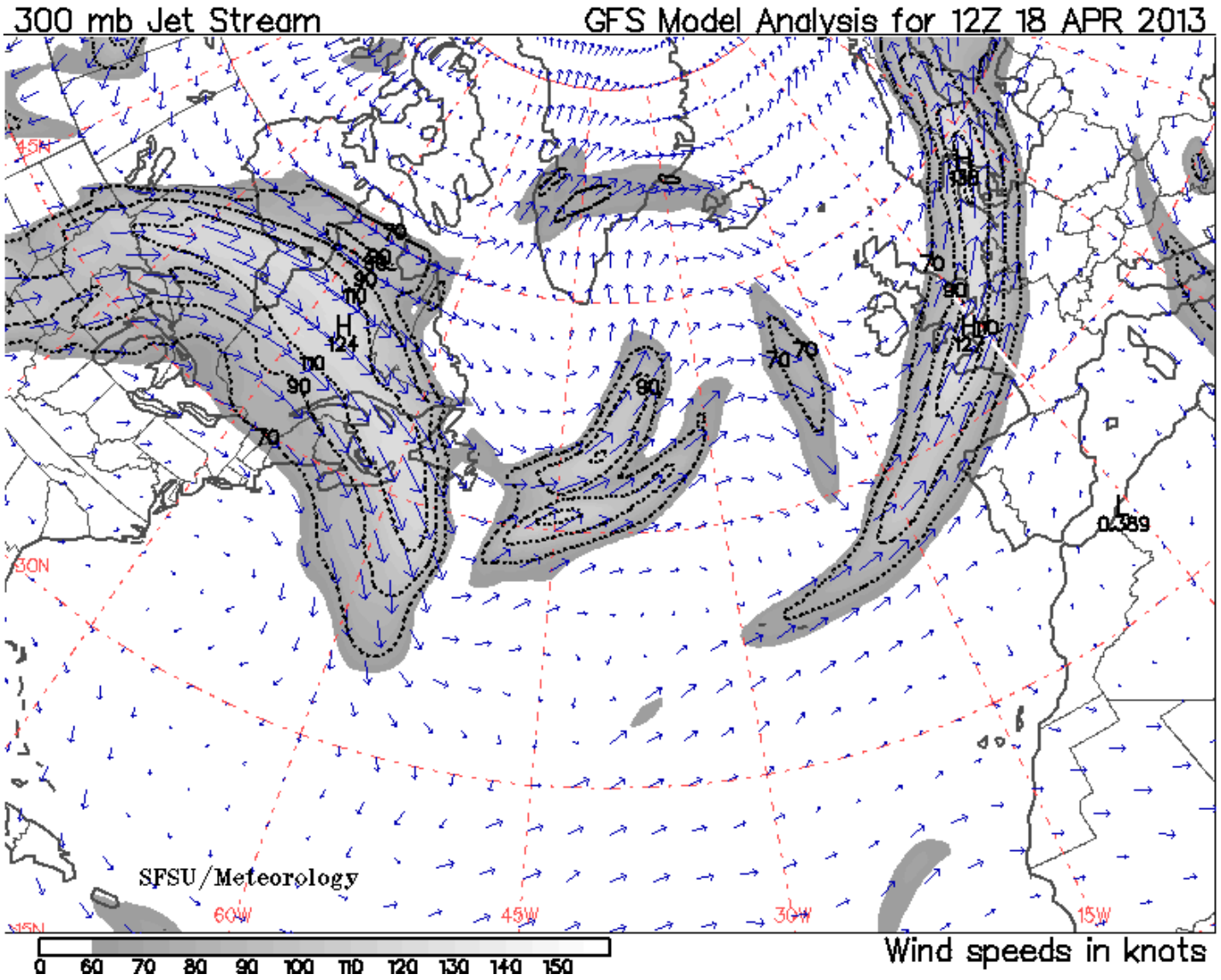

300 mb Jet Stream
GFS Model Analysis for 12Z 14 APR 2013
45N
30N
60W
45W
15W
70
90
110
H
L
0.435
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

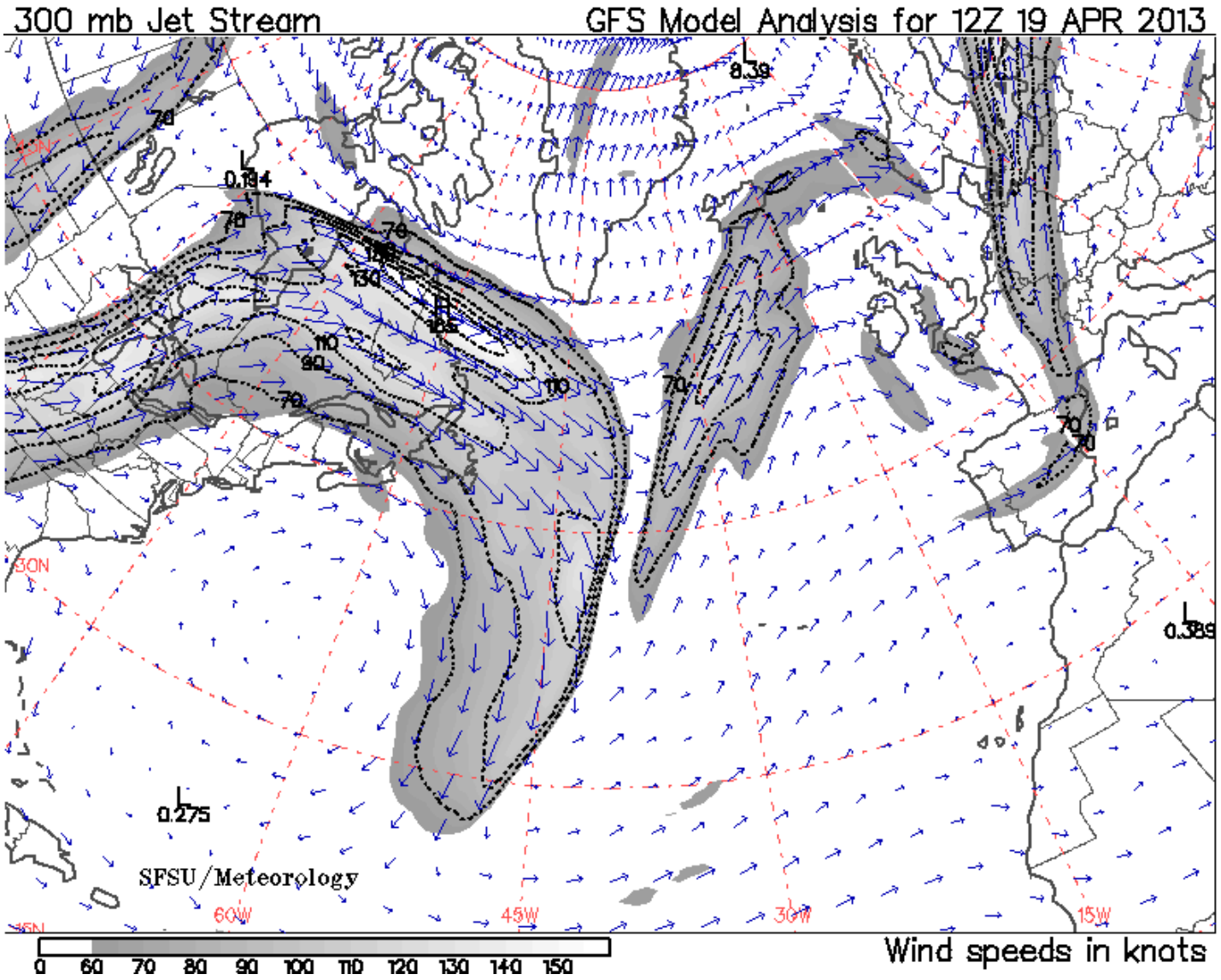


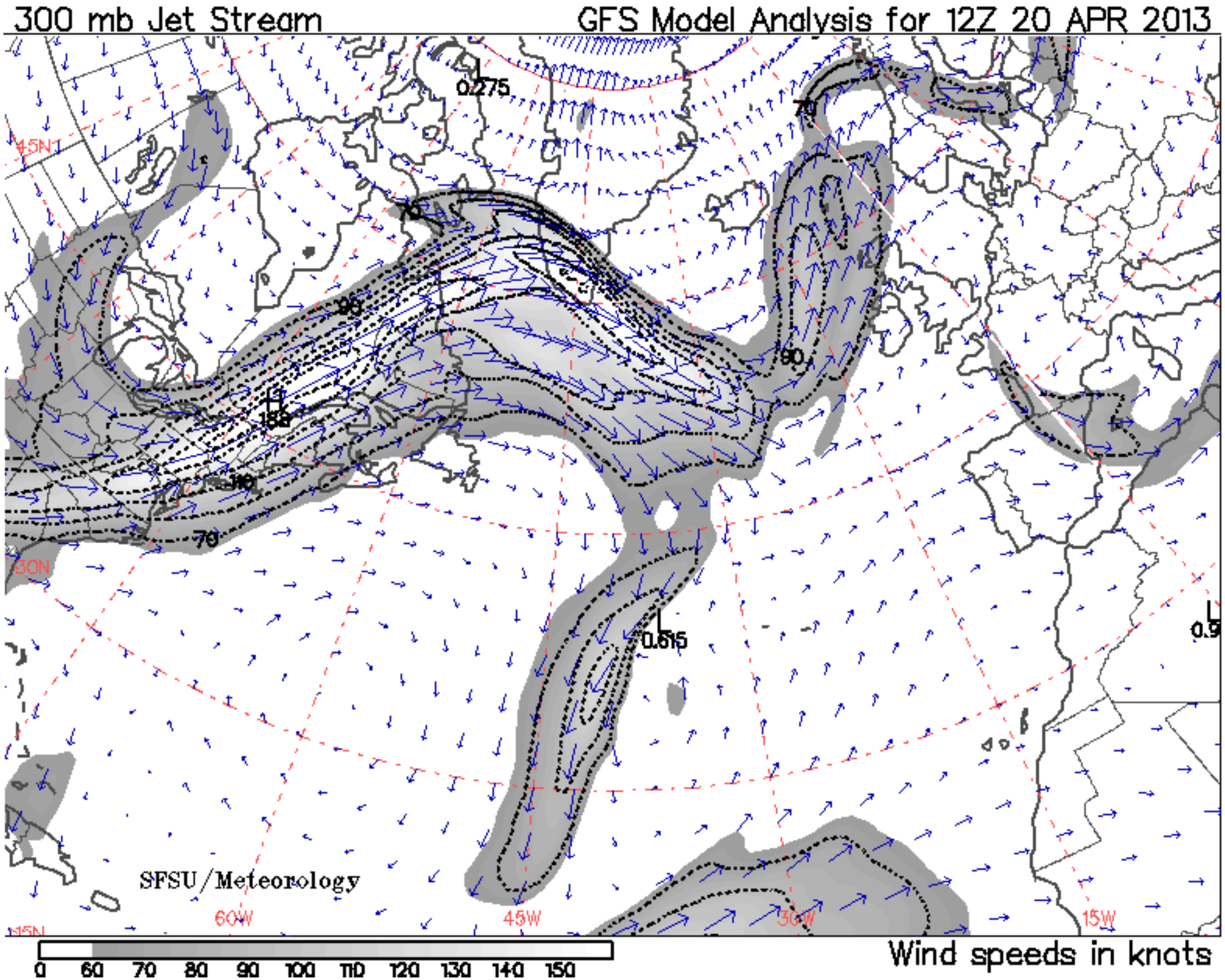
300 mb Jet Stream
GFS Model Analysis for 12Z 15 APR 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150
60W
45W
30W
15W
30N
H 151
H 134
H 132
L 0.275
L 0.550

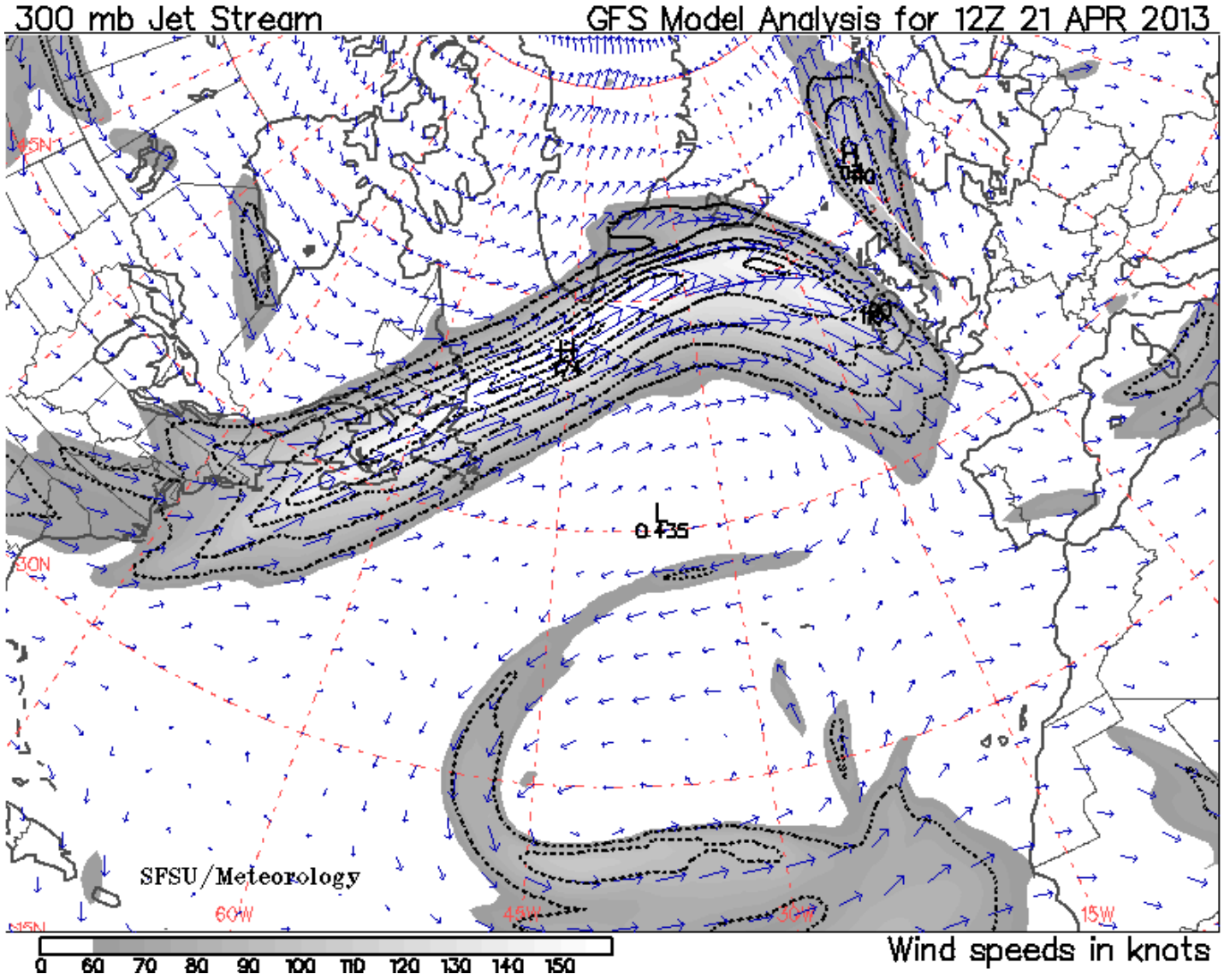

300 mb Jet Stream
GFS Model Analysis for 12Z 16 APR 2013
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

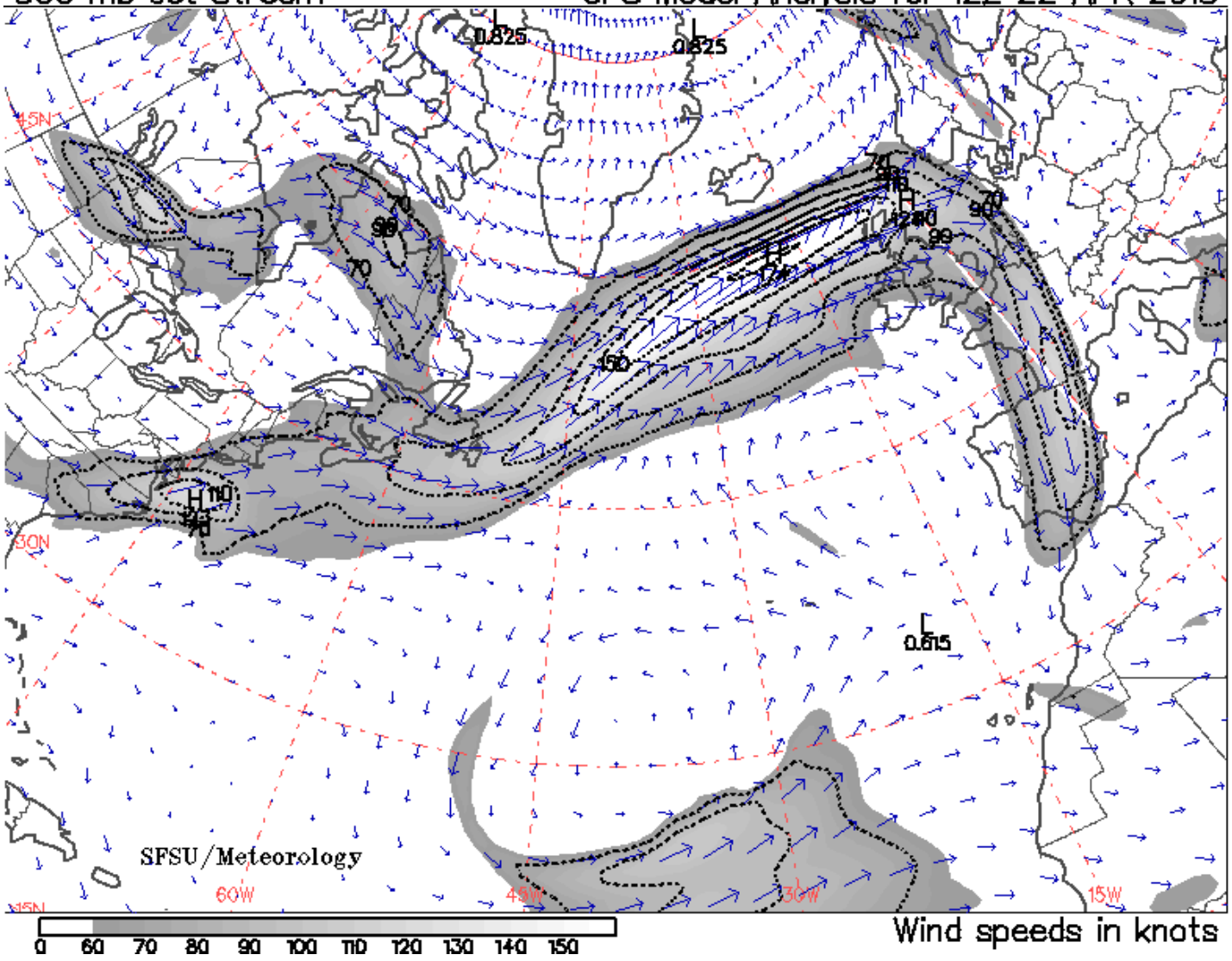

300 mb Jet Stream
GFS Model Analysis for 12Z 17 APR 2013
SFSU/Meteorology
60W
45W
30W
15W
30N
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

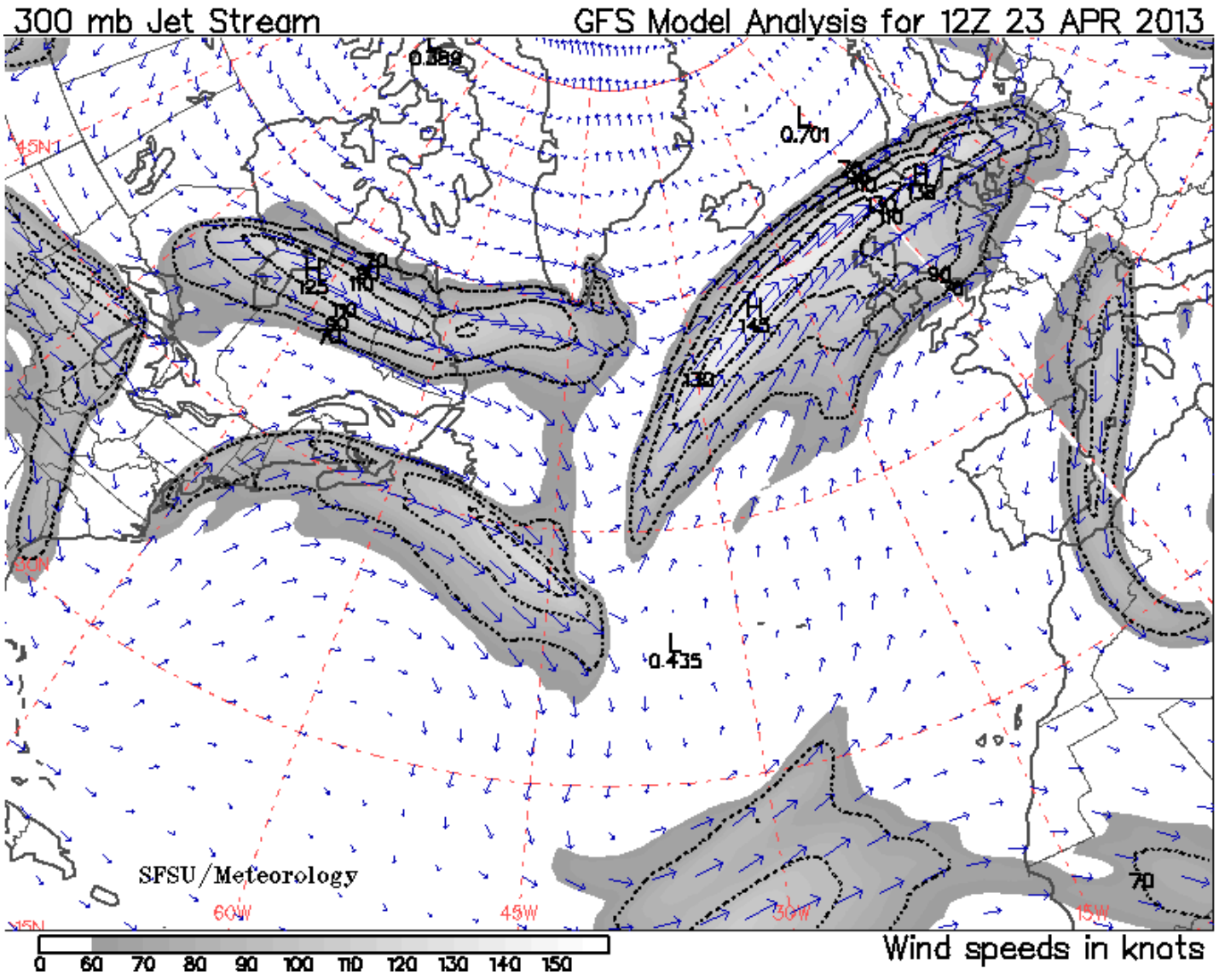

300 mb Jet Stream
GFS Model Analysis for 12Z 18 APR 2013
45N
30N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

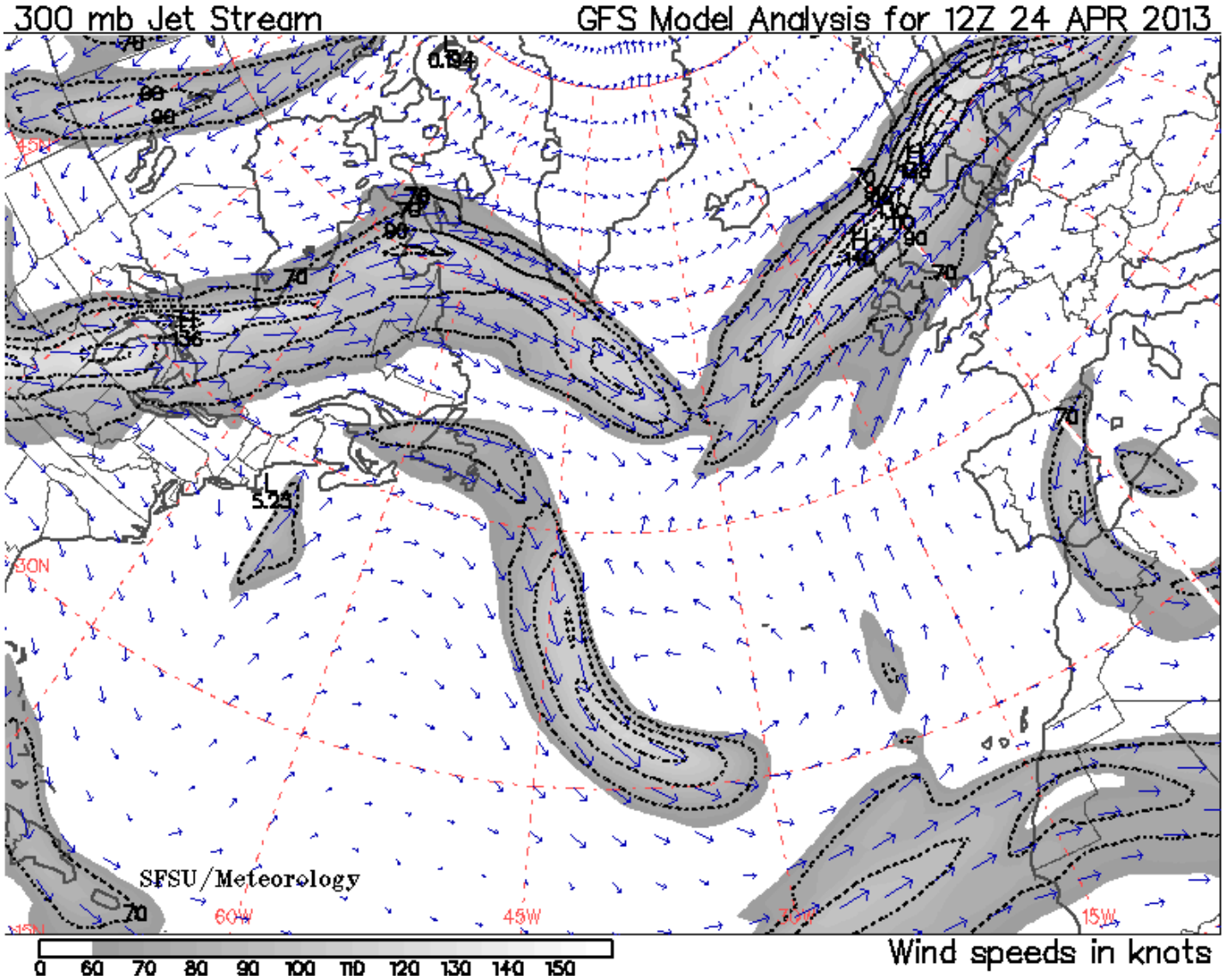

300 mb Jet Stream
GFS Model Analysis for 12Z 19 APR 2013
0.394
0.194
0.275
0.389
70
90
110
130
30N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

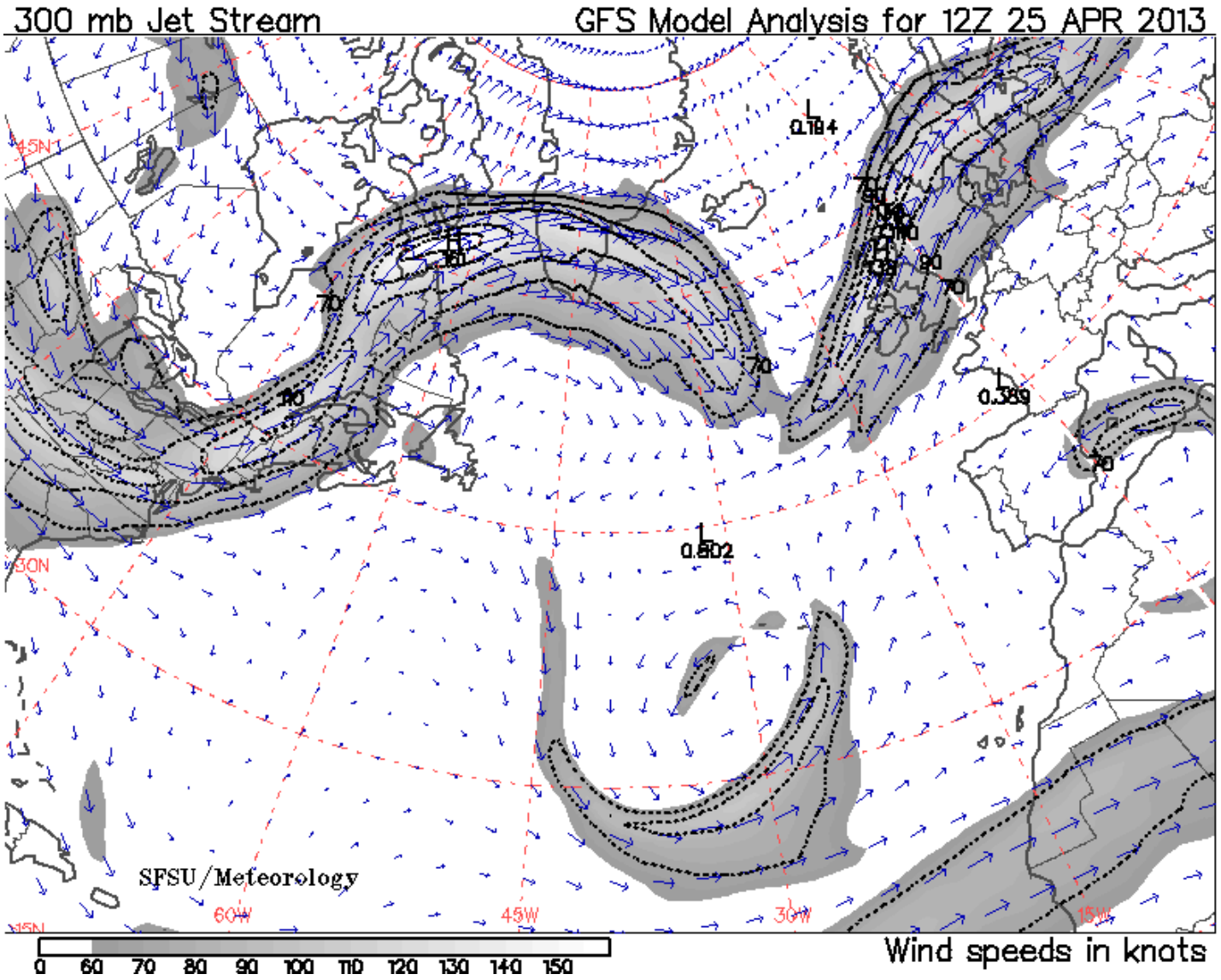

300 mb Jet Stream
GFS Model Analysis for 12Z 20 APR 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150
60W
45W
30W
15W
30N
45N

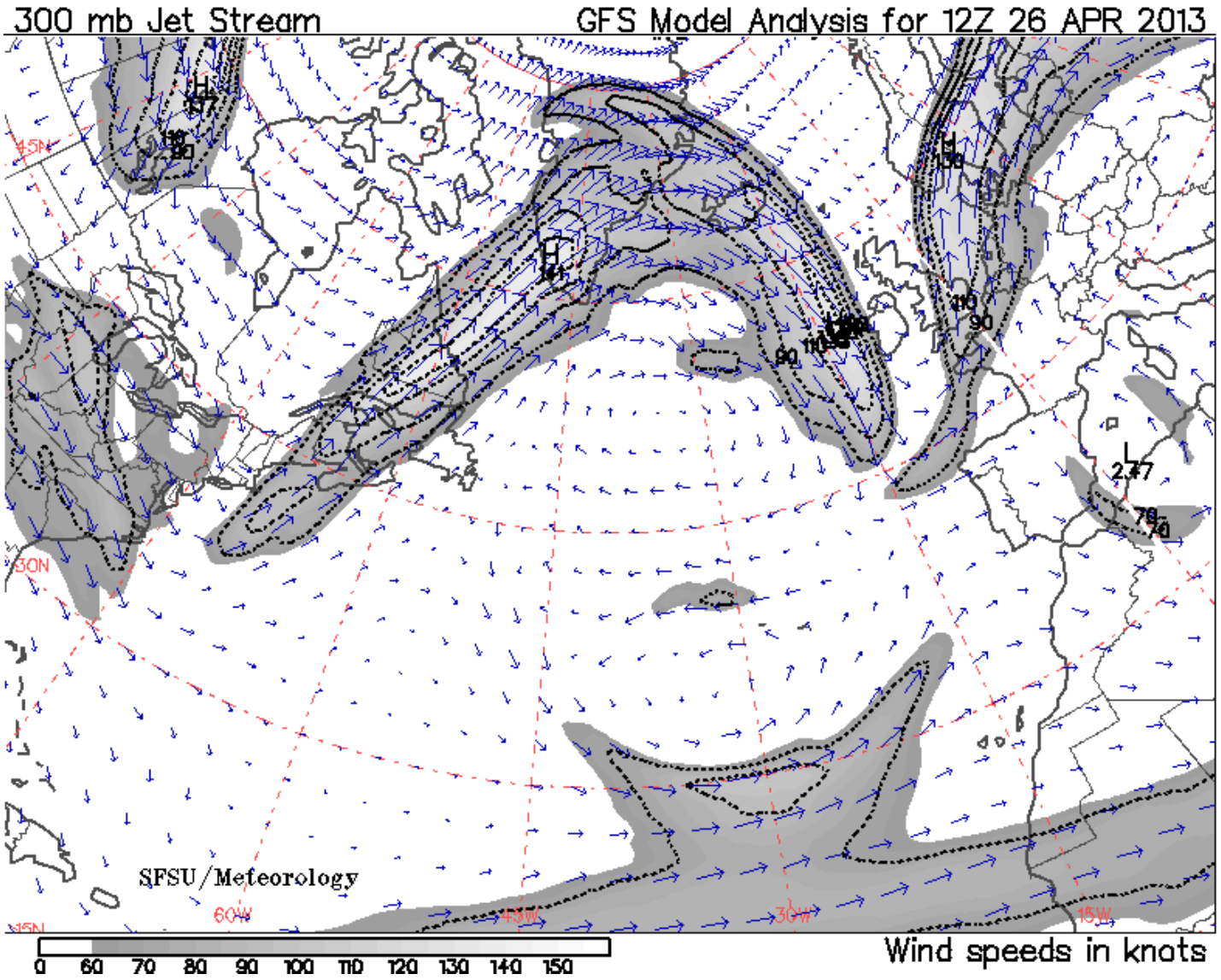

300 mb Jet Stream
GFS Model Analysis for 12Z 21 APR 2013
45N
30N
15N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

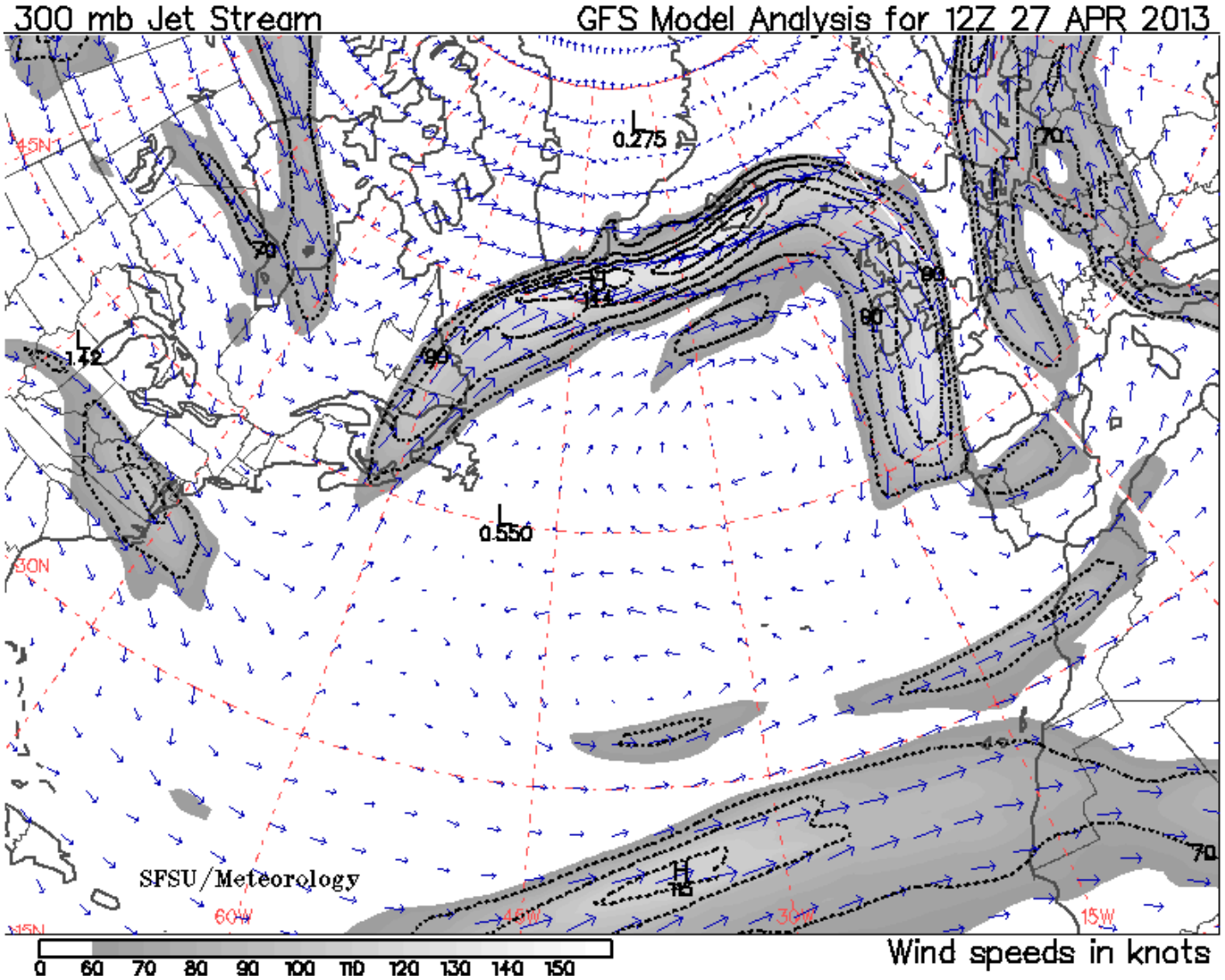

300 mb Jet Stream
GFS Model Analysis for 12Z 22 APR 2013
0.825
0.825
0.815
45N
30N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

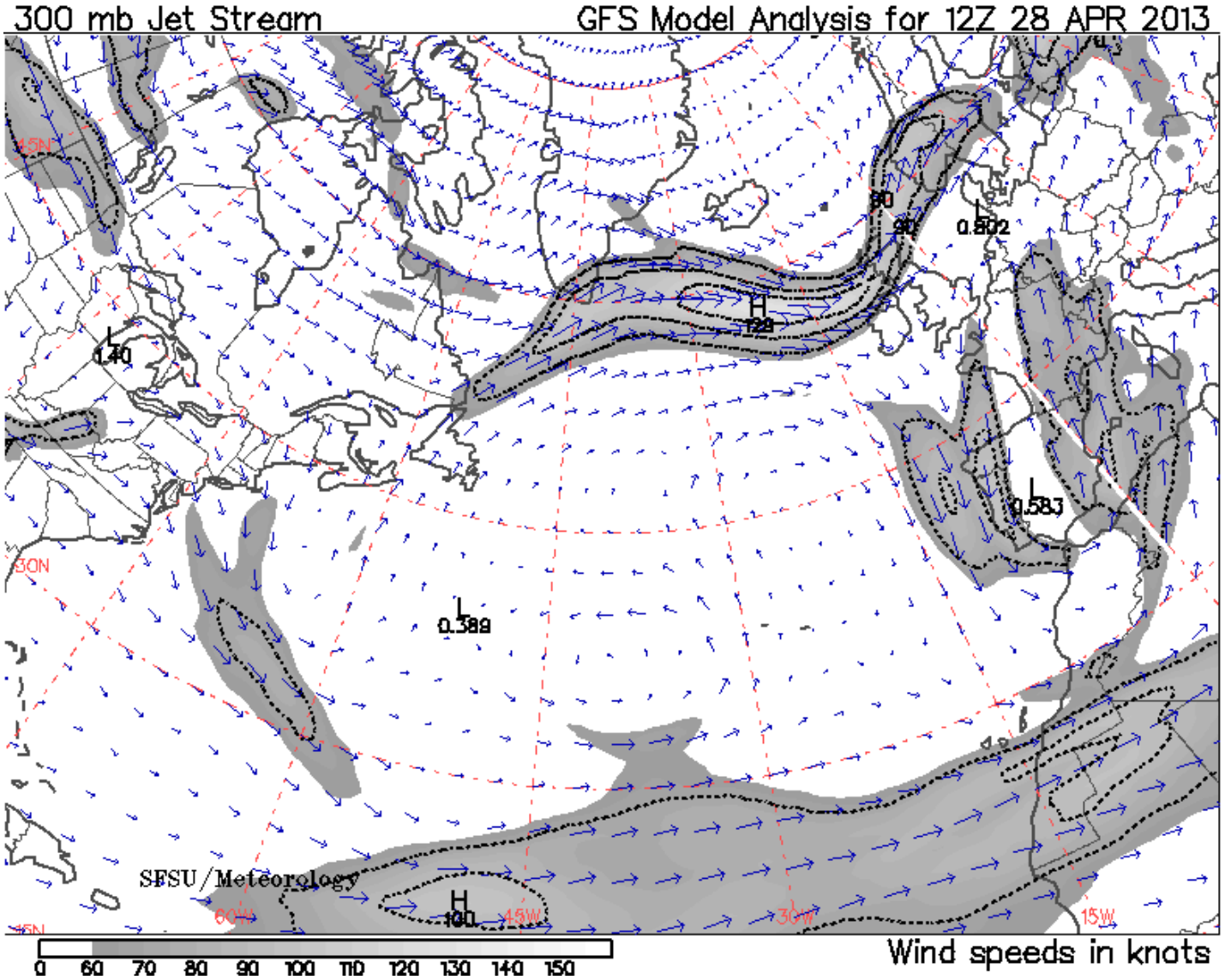

300 mb Jet Stream
GFS Model Analysis for 12Z 23 APR 2013
0.701
0.435
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

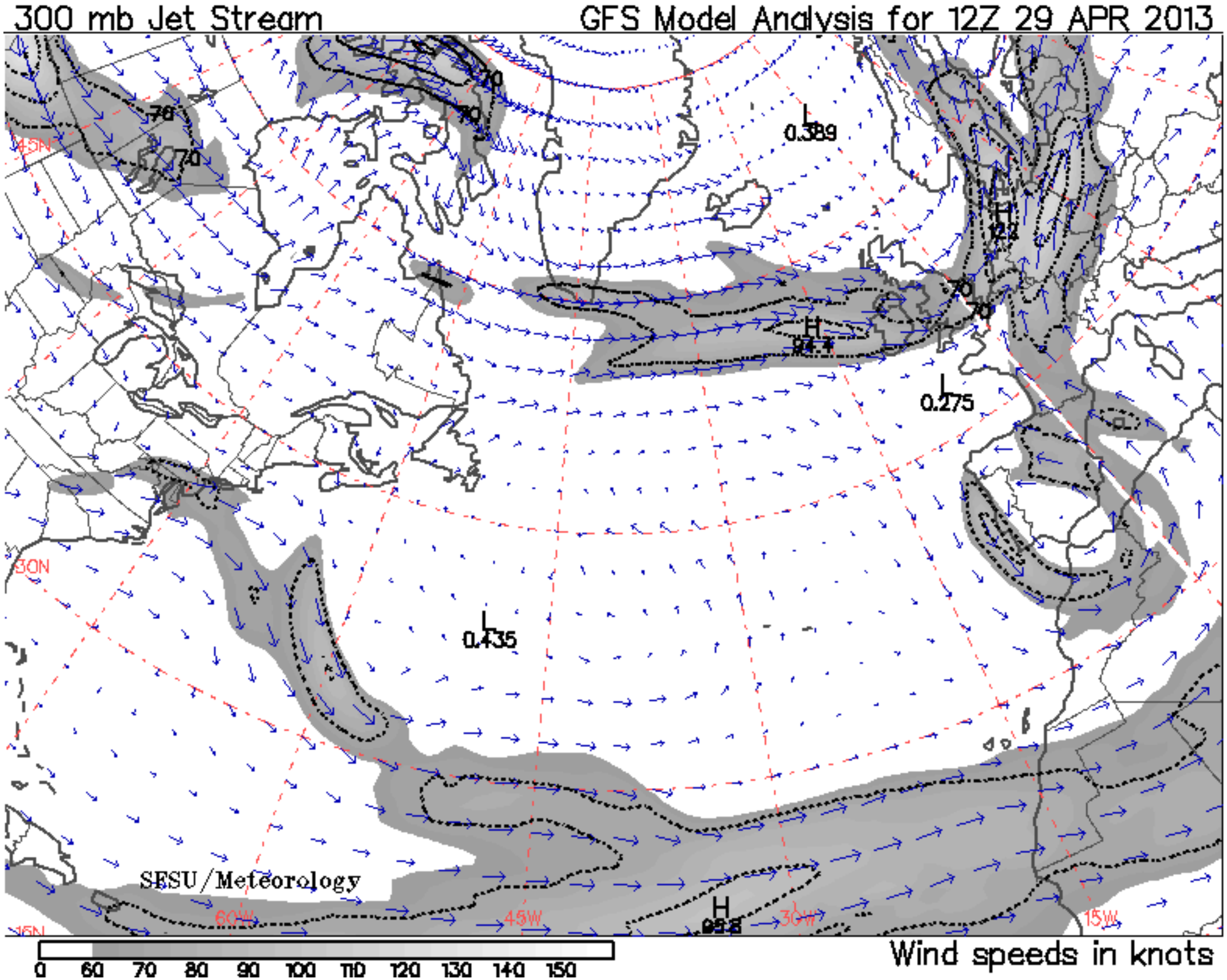

300 mb Jet Stream
GFS Model Analysis for 12Z 24 APR 2013
SFSU/Meteorology
60W
45W
30N
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

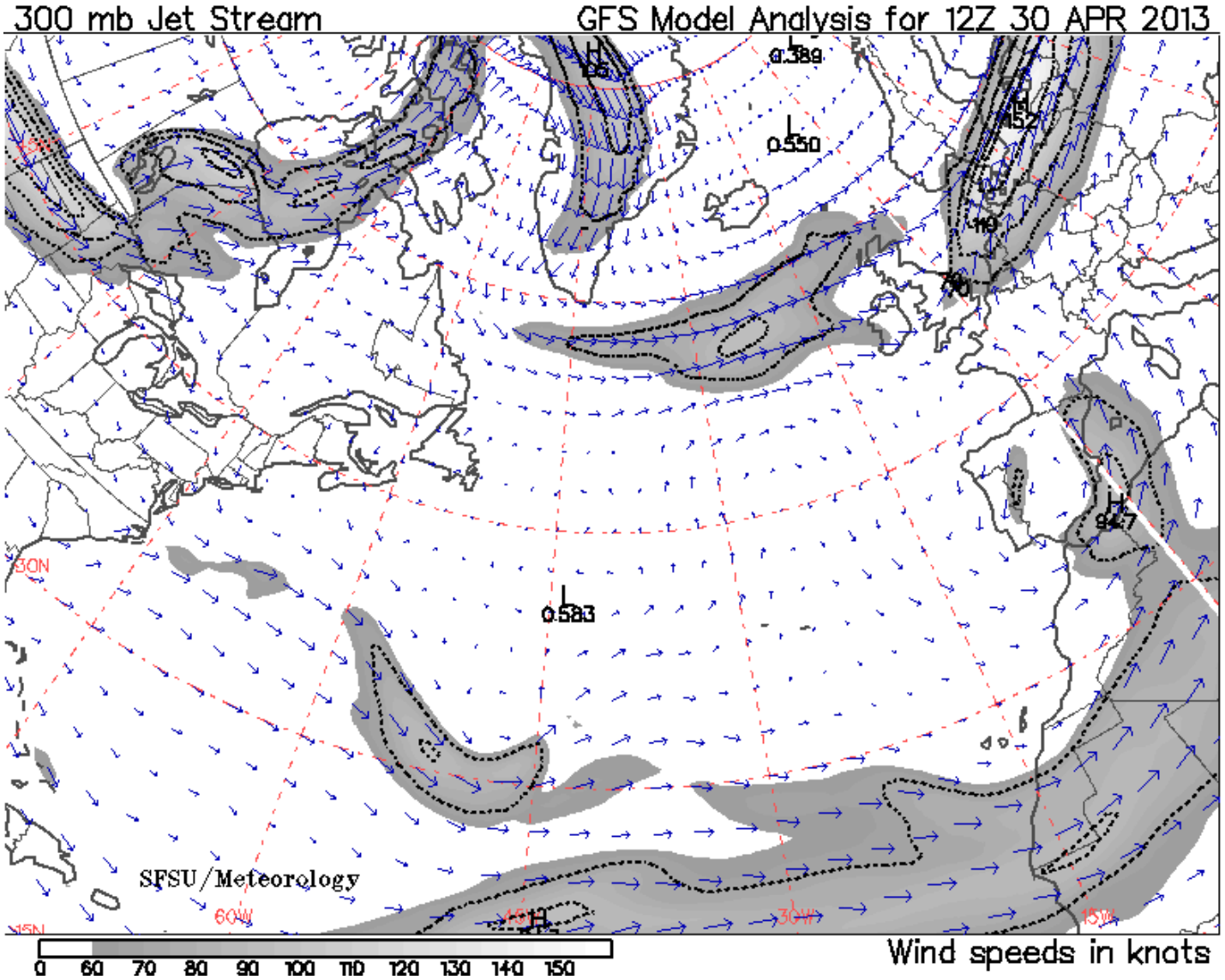

300 mb Jet Stream
GFS Model Analysis for 12Z 25 APR 2013
45N
30N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

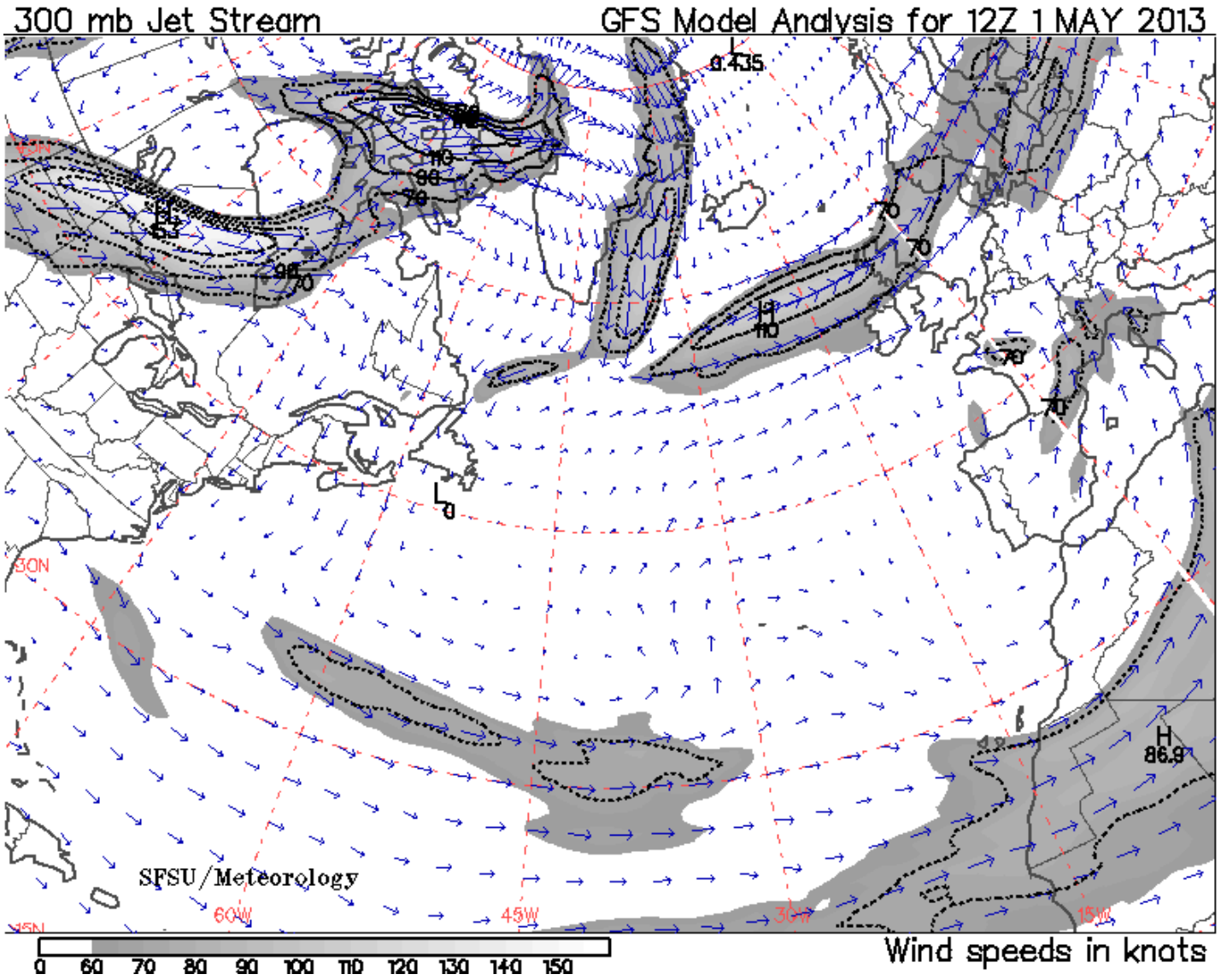

300 mb Jet Stream
GFS Model Analysis for 12Z 26 APR 2013
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

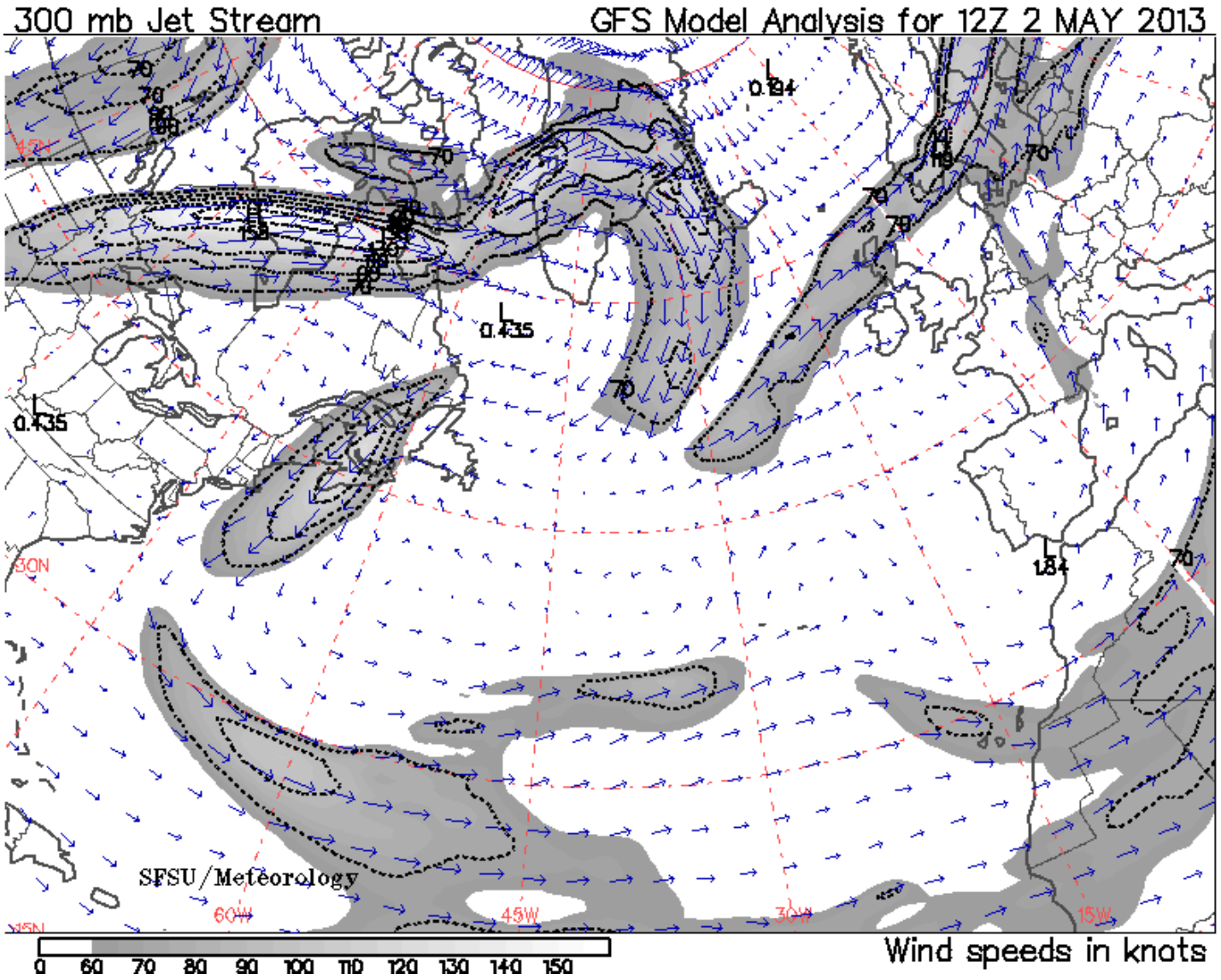

300 mb Jet Stream
GFS Model Analysis for 12Z 27 APR 2013
0.275
0.550
45N
30N
15N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

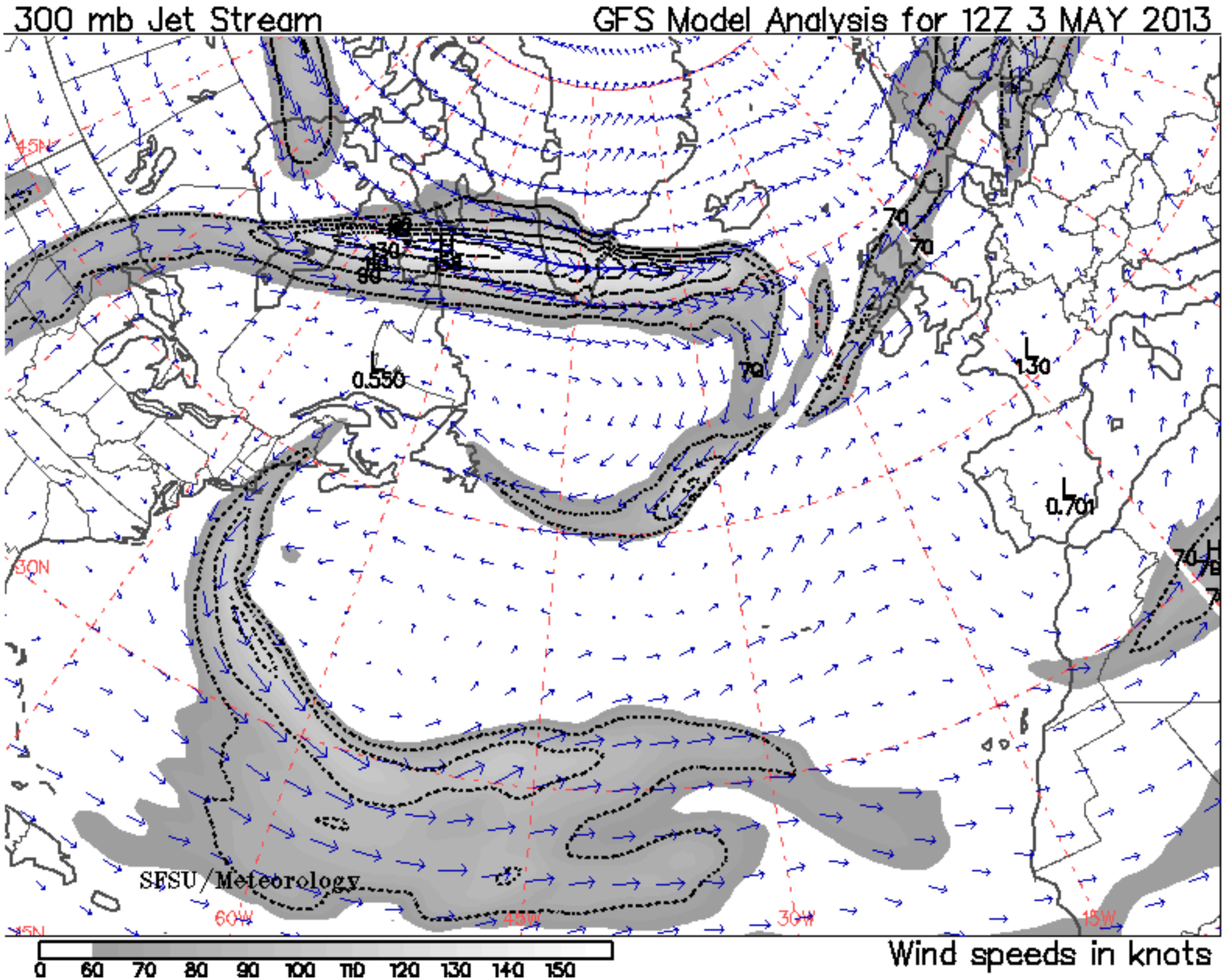

300 mb Jet Stream
GFS Model Analysis for 12Z 28 APR 2013
45N
30N
15N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

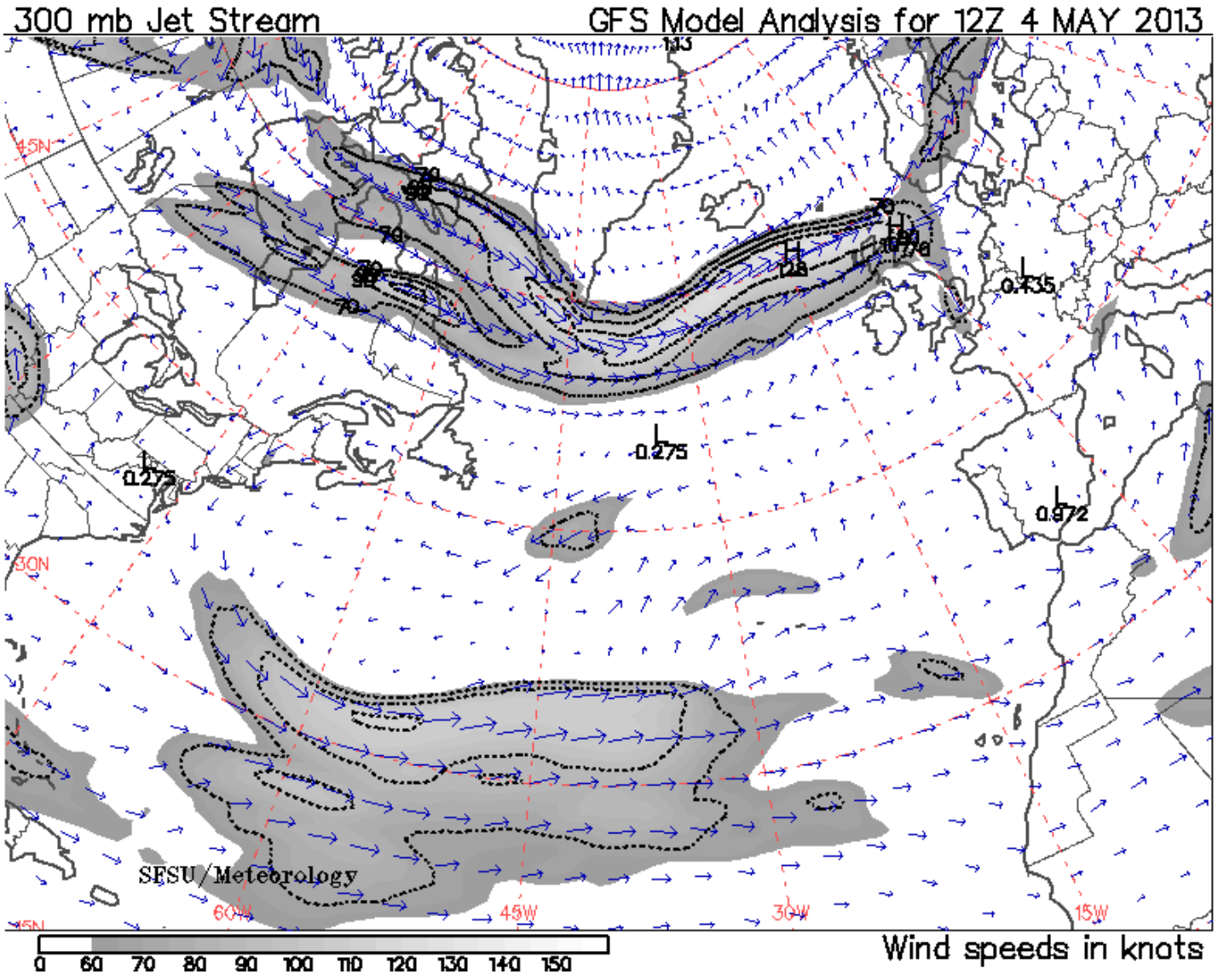

300 mb Jet Stream
GFS Model Analysis for 12Z 29 APR 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150
45N
30N
15N
60W
45W
30W
15W
L 0.389
L 0.275
L 0.435
H 122
H 94.4
70

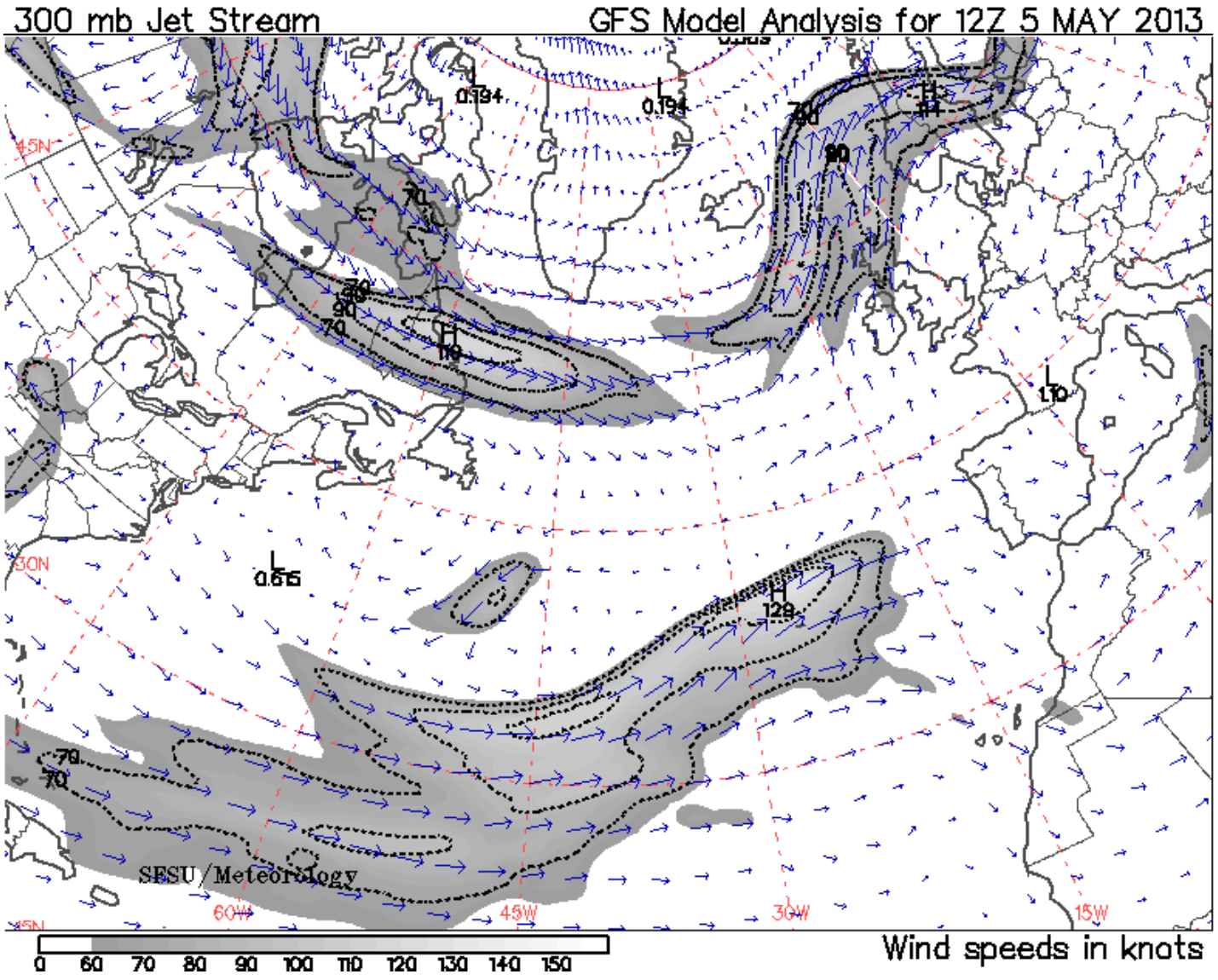

300 mb Jet Stream
GFS Model Analysis for 12Z 30 APR 2013
0550
0583
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

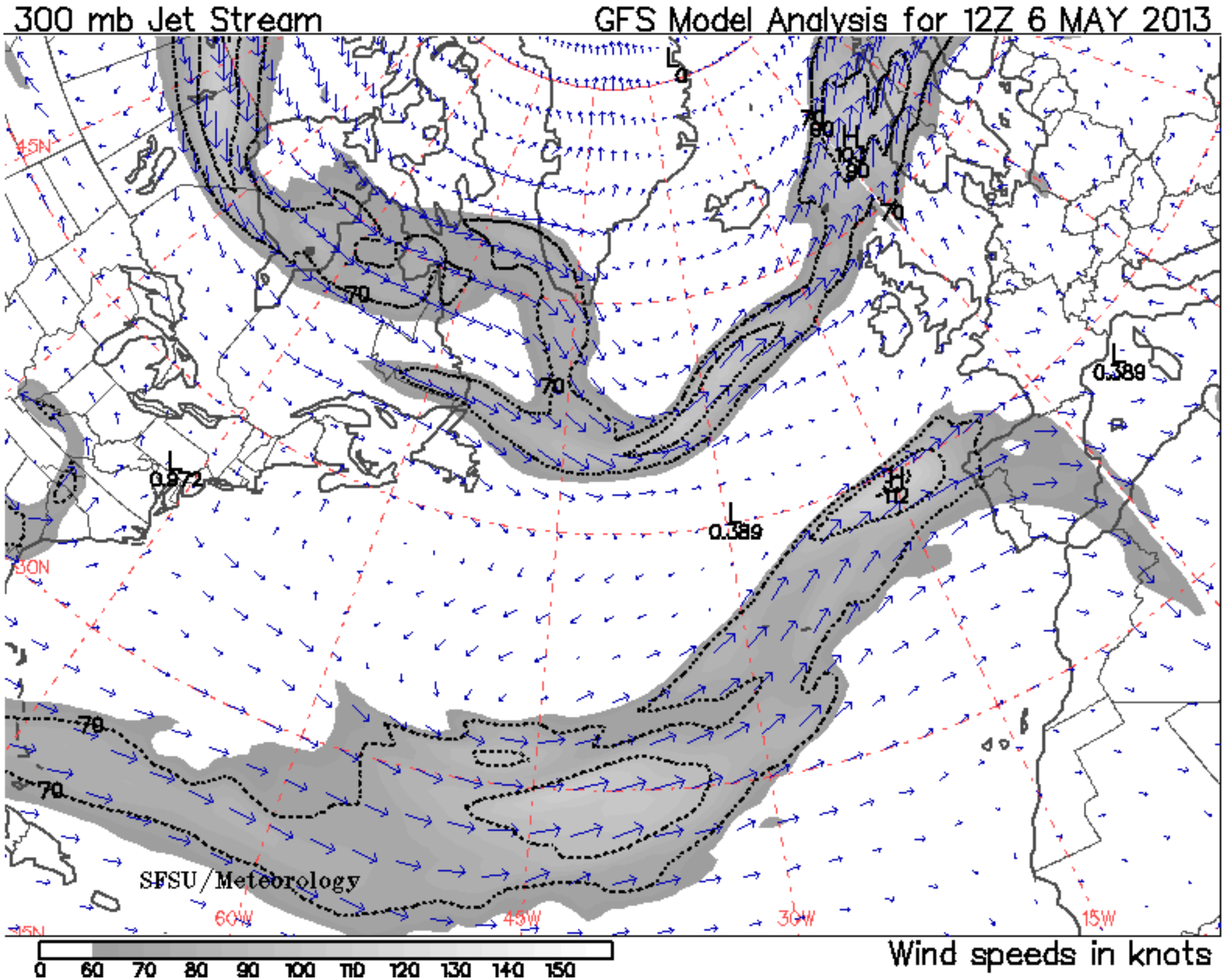

300 mb Jet Stream
GFS Model Analysis for 12Z 1 MAY 2013
SFSU/Meteorology
60W
45W
30W
15W
30N
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 2 MAY 2013
SFSU/Meteorology
60W
45W
30W
15W
30N
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

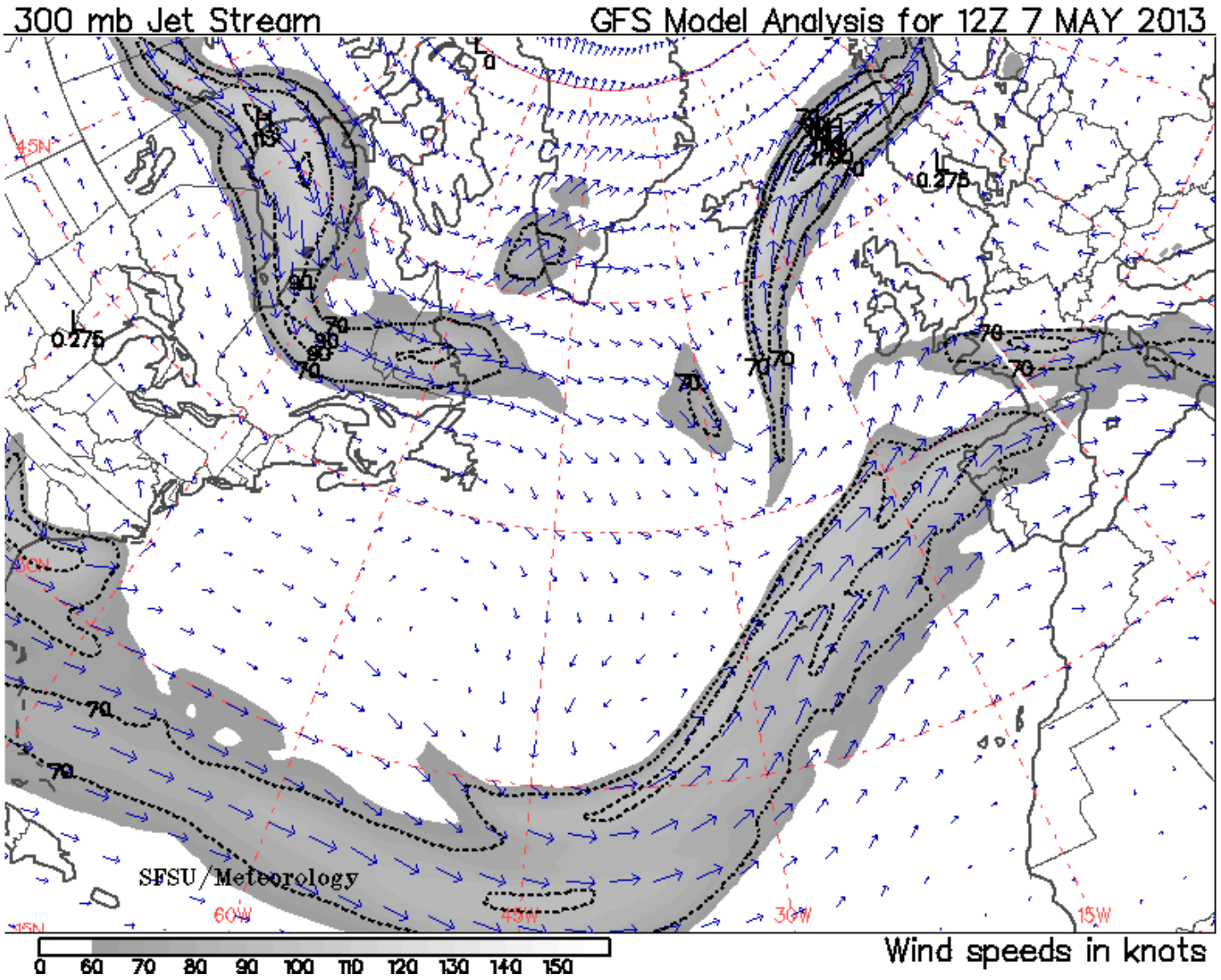

300 mb Jet Stream
GFS Model Analysis for 12Z 3 MAY 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150

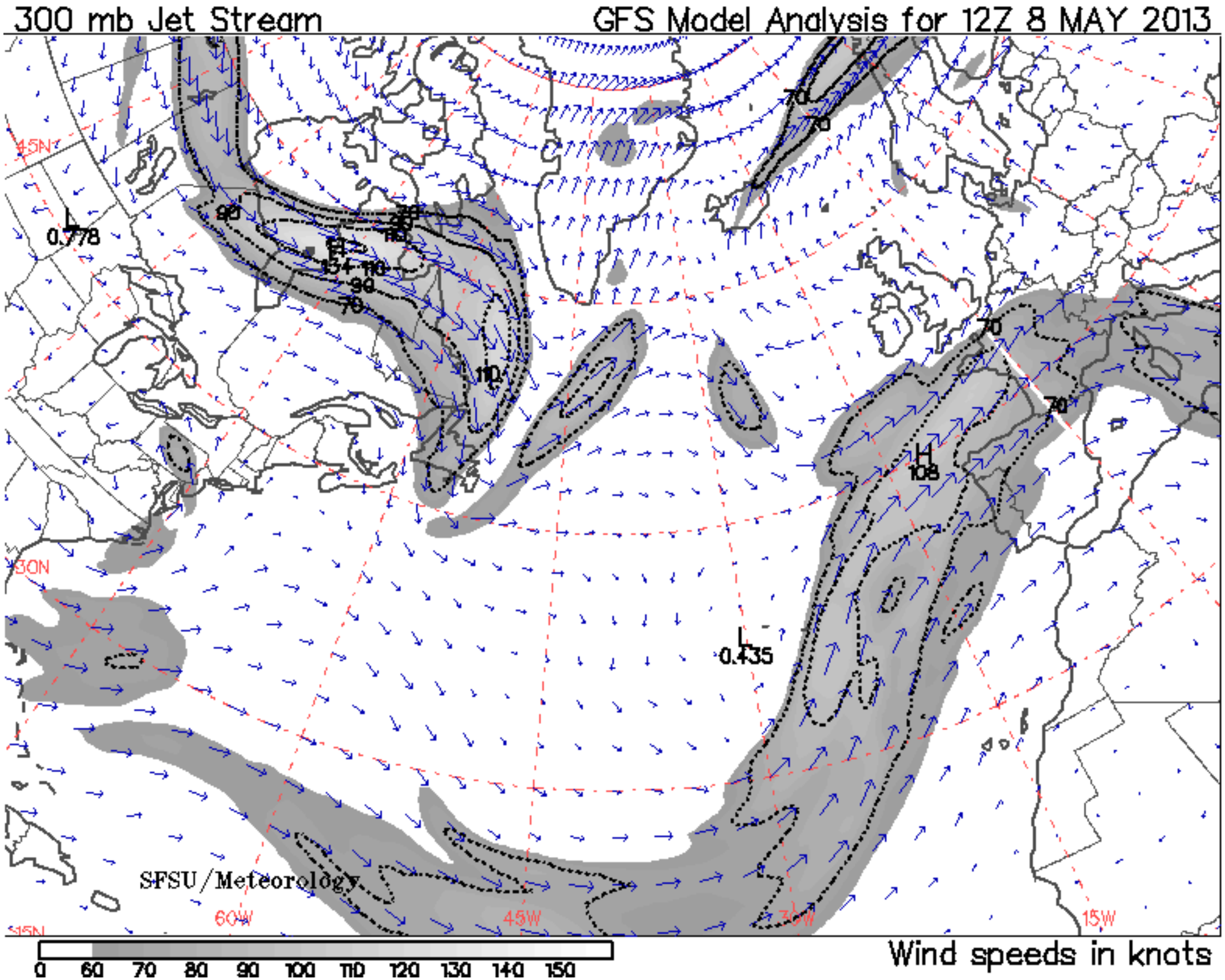

300 mb Jet Stream
GFS Model Analysis for 12Z 4 MAY 2013
45N
30N
60W
45W
30W
15W
0.275
0.275
0.435
0.972
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 5 MAY 2013
45N
30N
60W
45W
30W
15W
SESU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

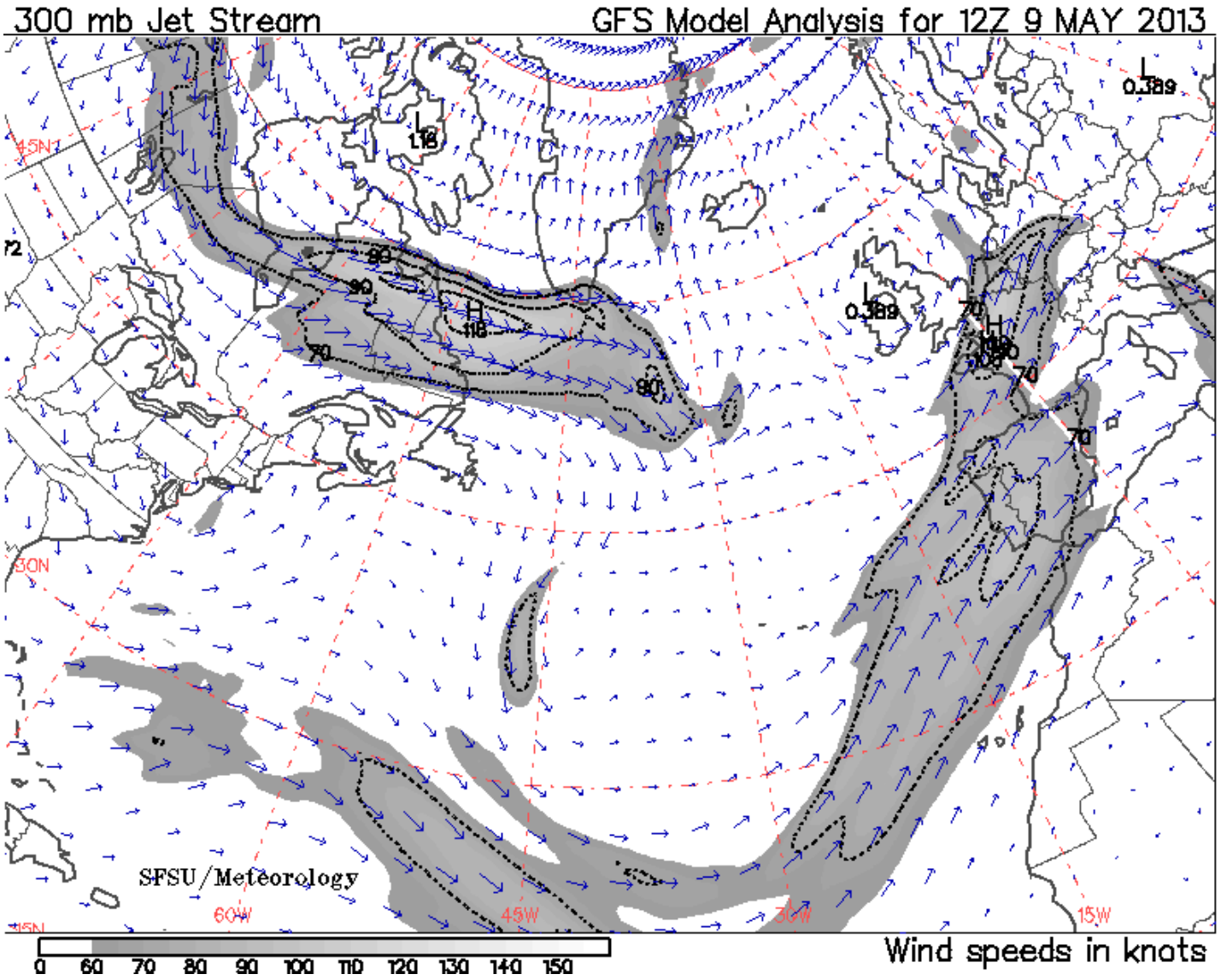


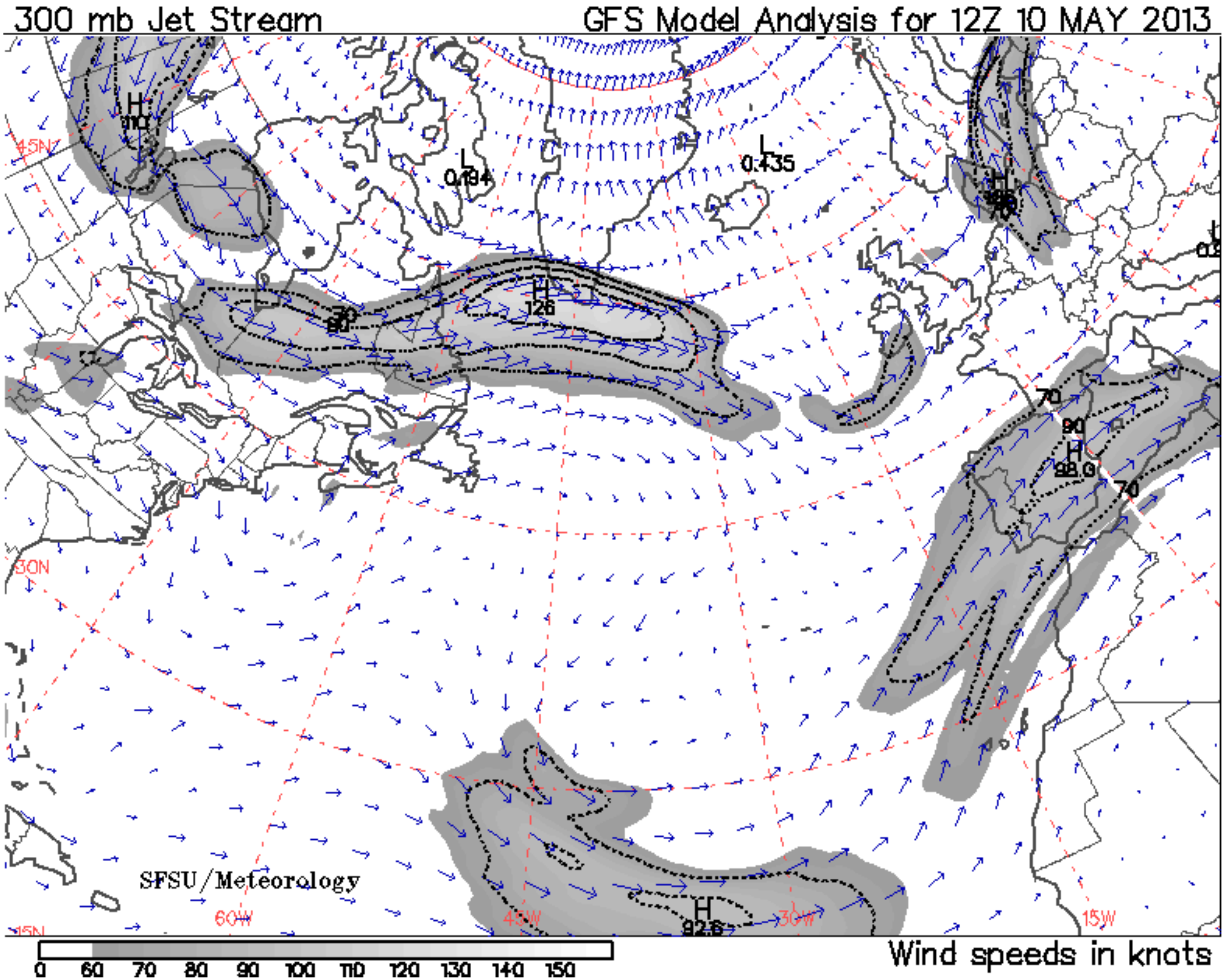
300 mb Jet Stream
GFS Model Analysis for 12Z 6 MAY 2013
SFSU/Meteorology
60W
45W
30W
15W
45N
30N
70
0
60
70
80
90
100
110
120
130
140
150
Wind speeds in knots

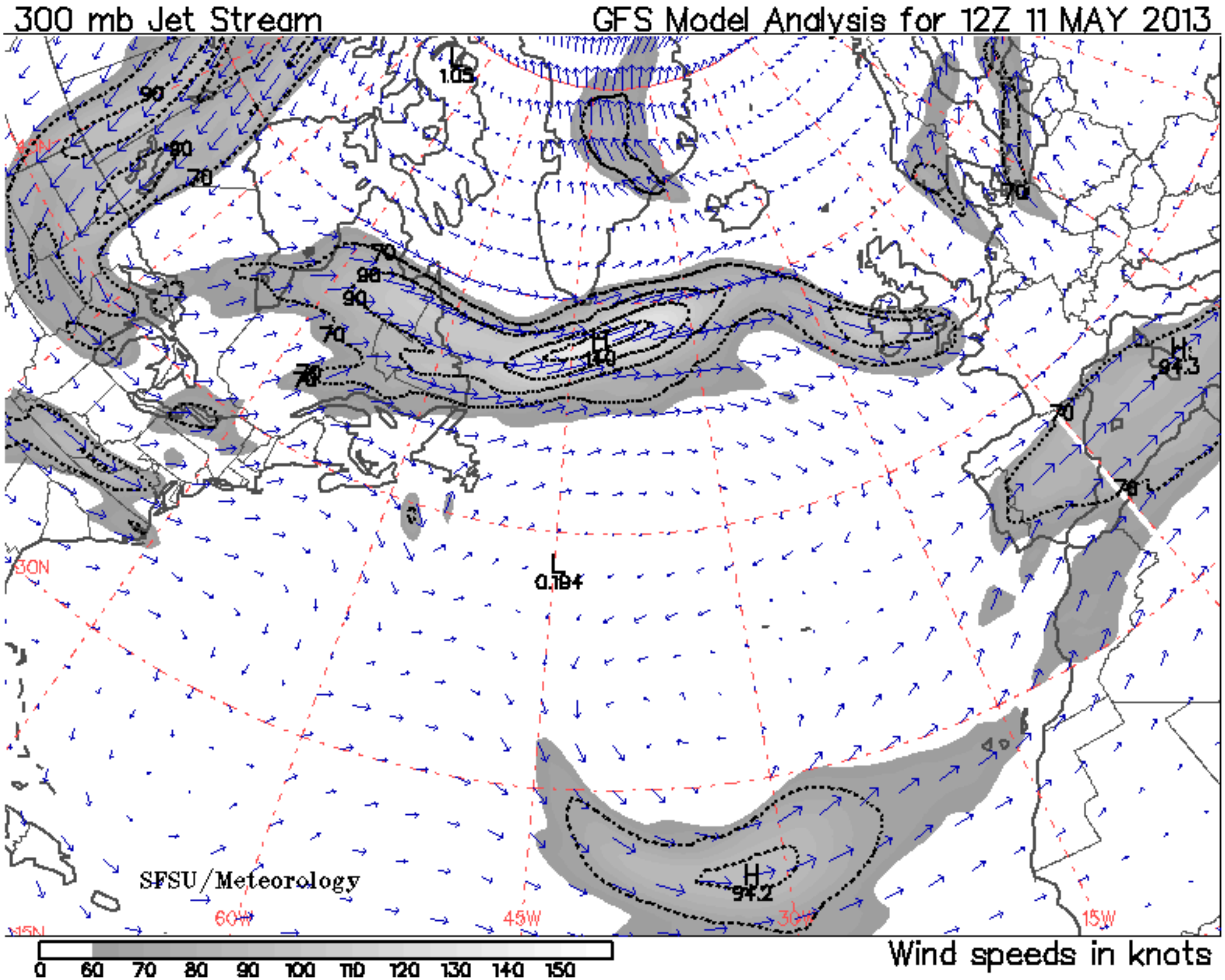

300 mb Jet Stream
GFS Model Analysis for 12Z 7 MAY 2013
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

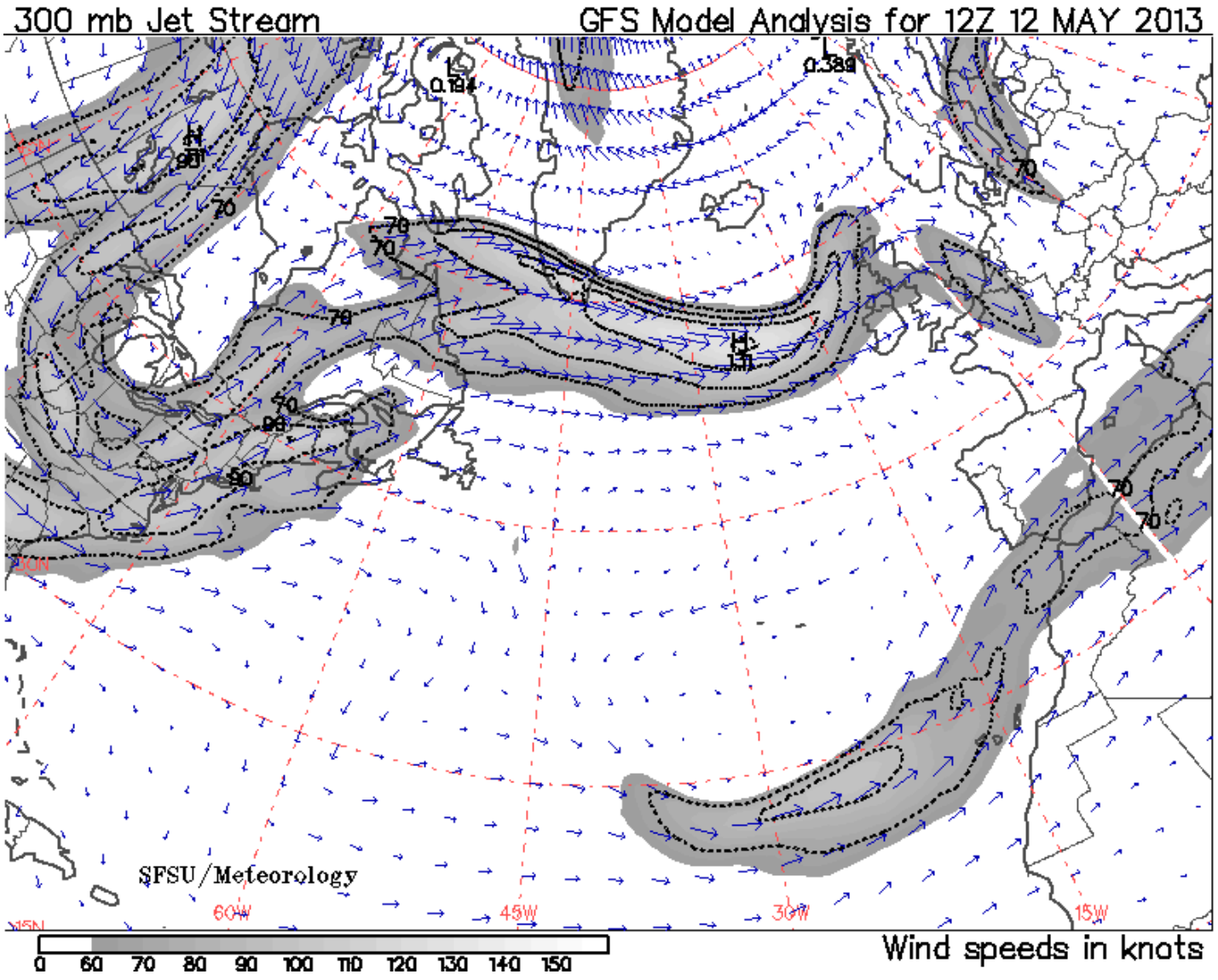


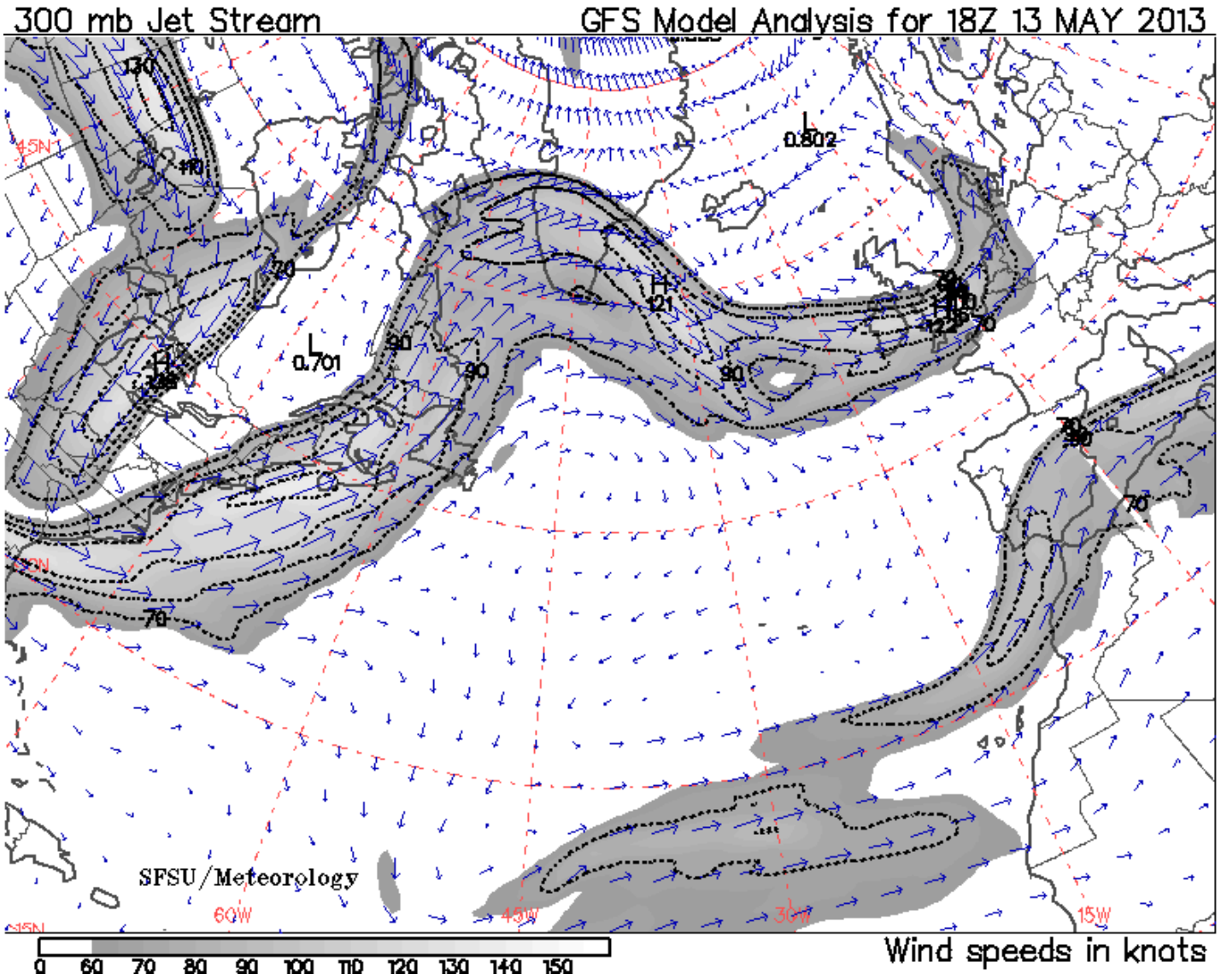
300 mb Jet Stream
GFS Model Analysis for 12Z 8 MAY 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150
45N
30N
15N
60W
45W
30W
15W
0.778
0.435

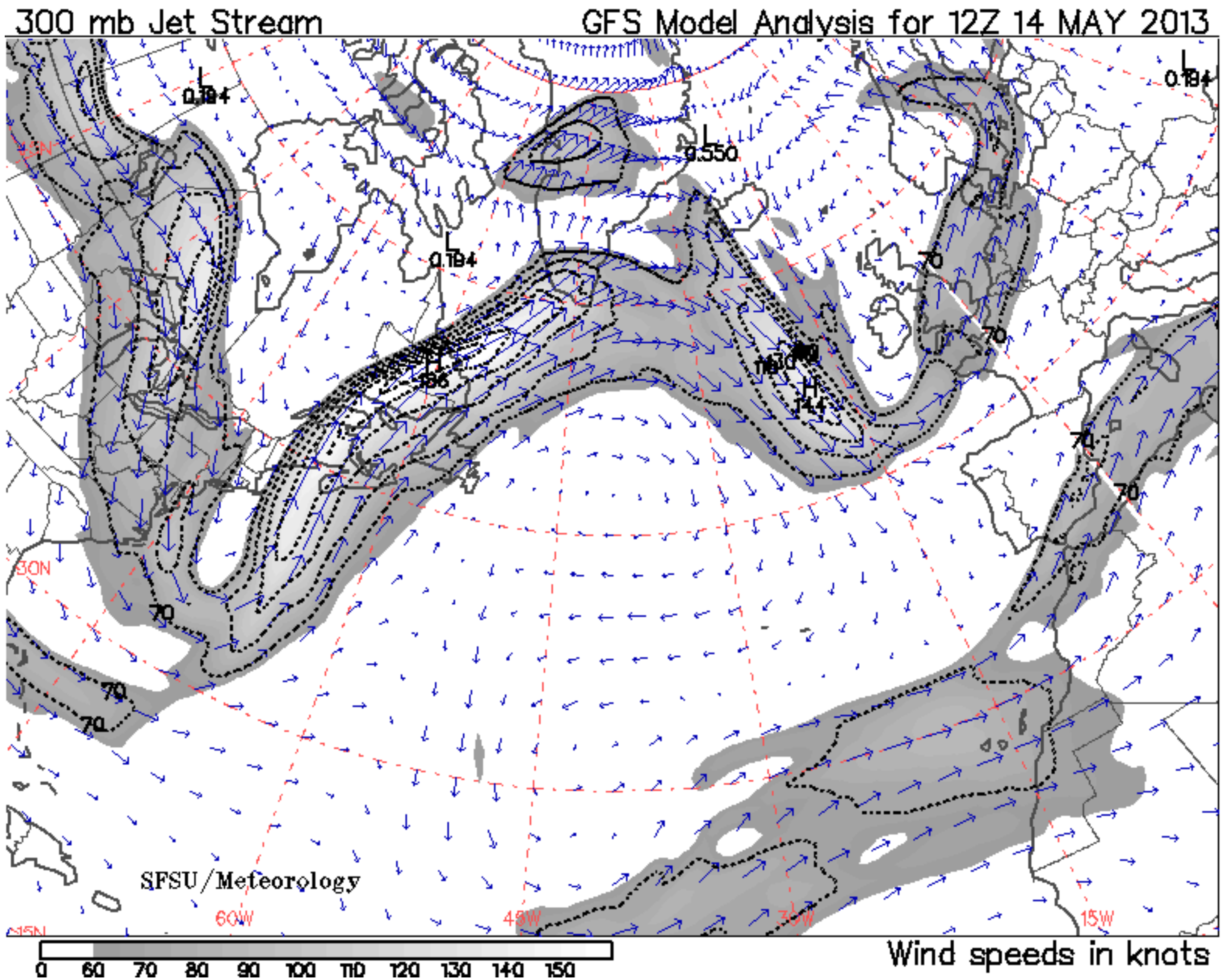

300 mb Jet Stream
GFS Model Analysis for 12Z 9 MAY 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150

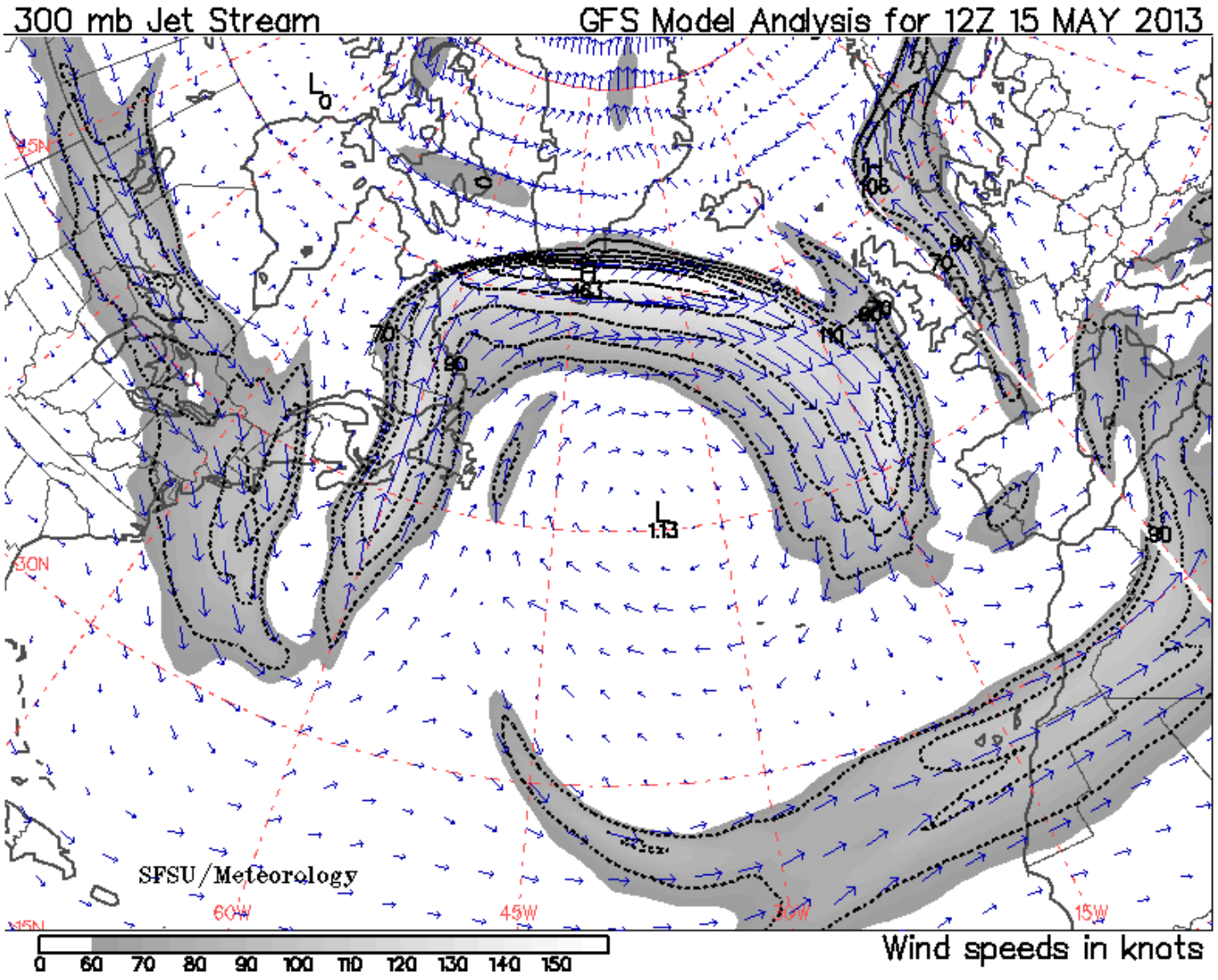

300 mb Jet Stream
GFS Model Analysis for 12Z 10 MAY 2013
SFSU/Meteorology
45N
30N
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

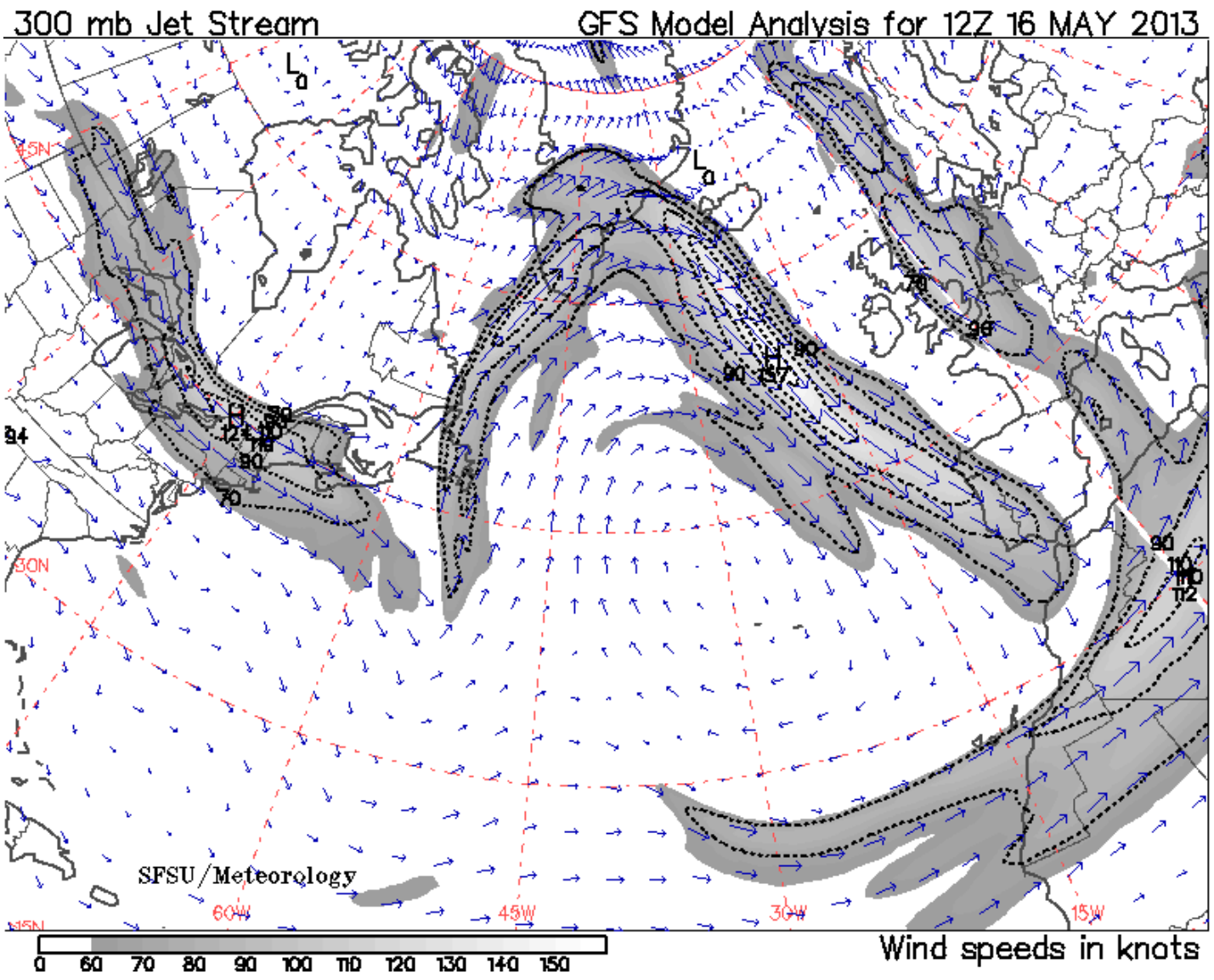

300 mb Jet Stream
GFS Model Analysis for 12Z 11 MAY 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150
30N
60W
45W
30W
15W


300 mb Jet Stream
GFS Model Analysis for 12Z 12 MAY 2013
SFSU/Meteorology
60W
45W
30W
15W
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

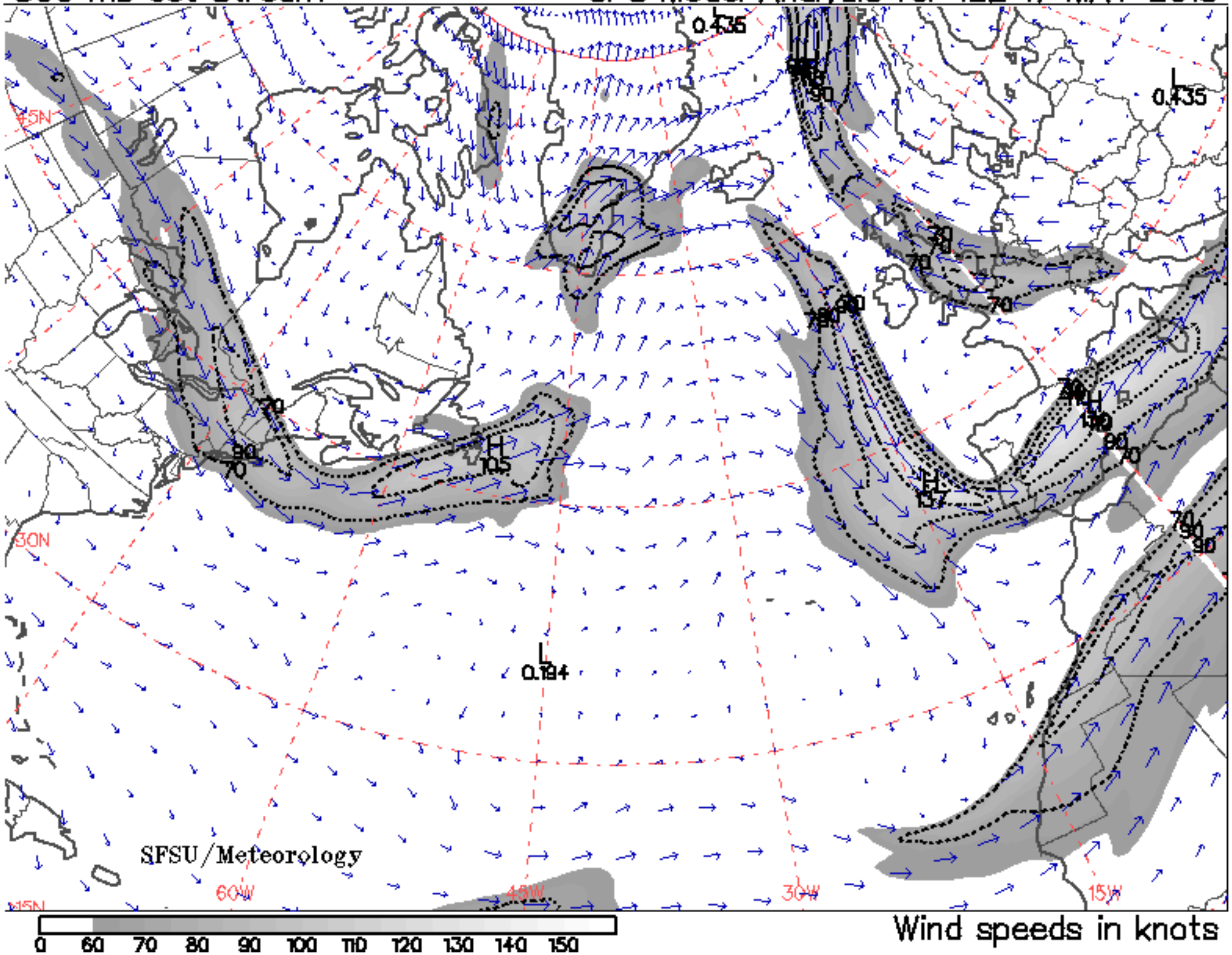

300 mb Jet Stream
GFS Model Analysis for 18Z 13 MAY 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150


300 mb Jet Stream
GFS Model Analysis for 12Z 14 MAY 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150
30N
60W
45W
30W
15W

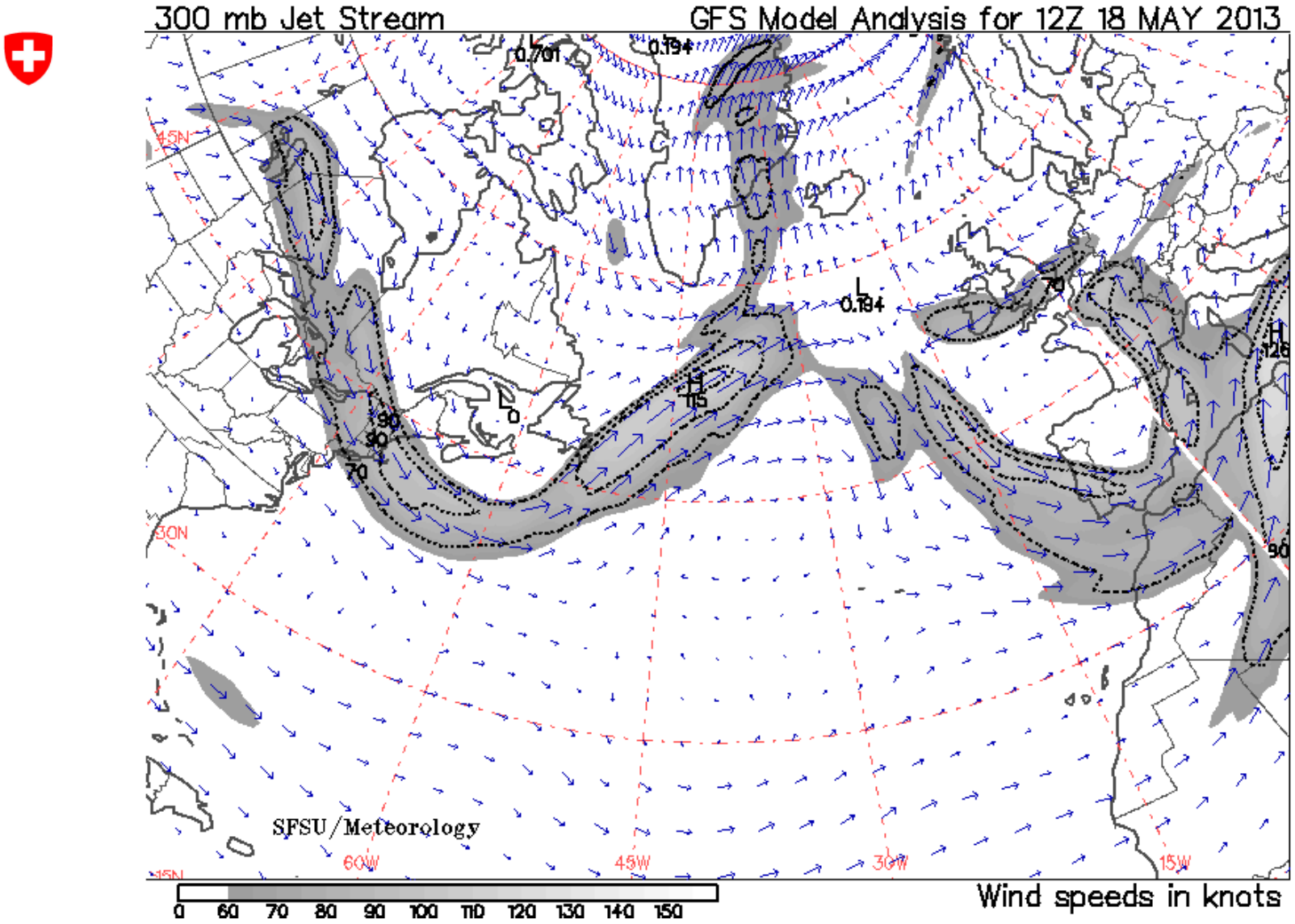

300 mb Jet Stream
GFS Model Analysis for 12Z 15 MAY 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150

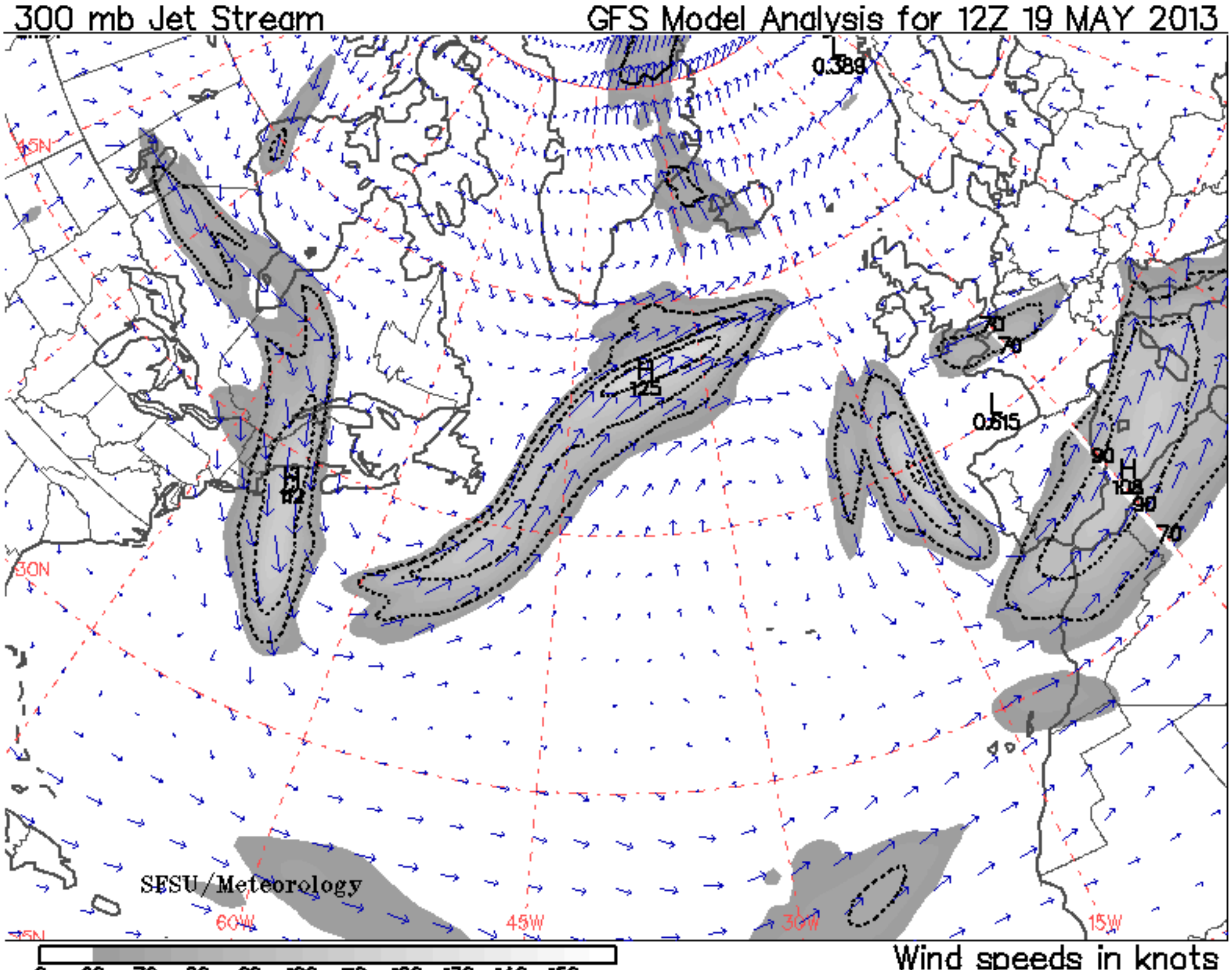

300 mb Jet Stream
GFS Model Analysis for 12Z 16 MAY 2013
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

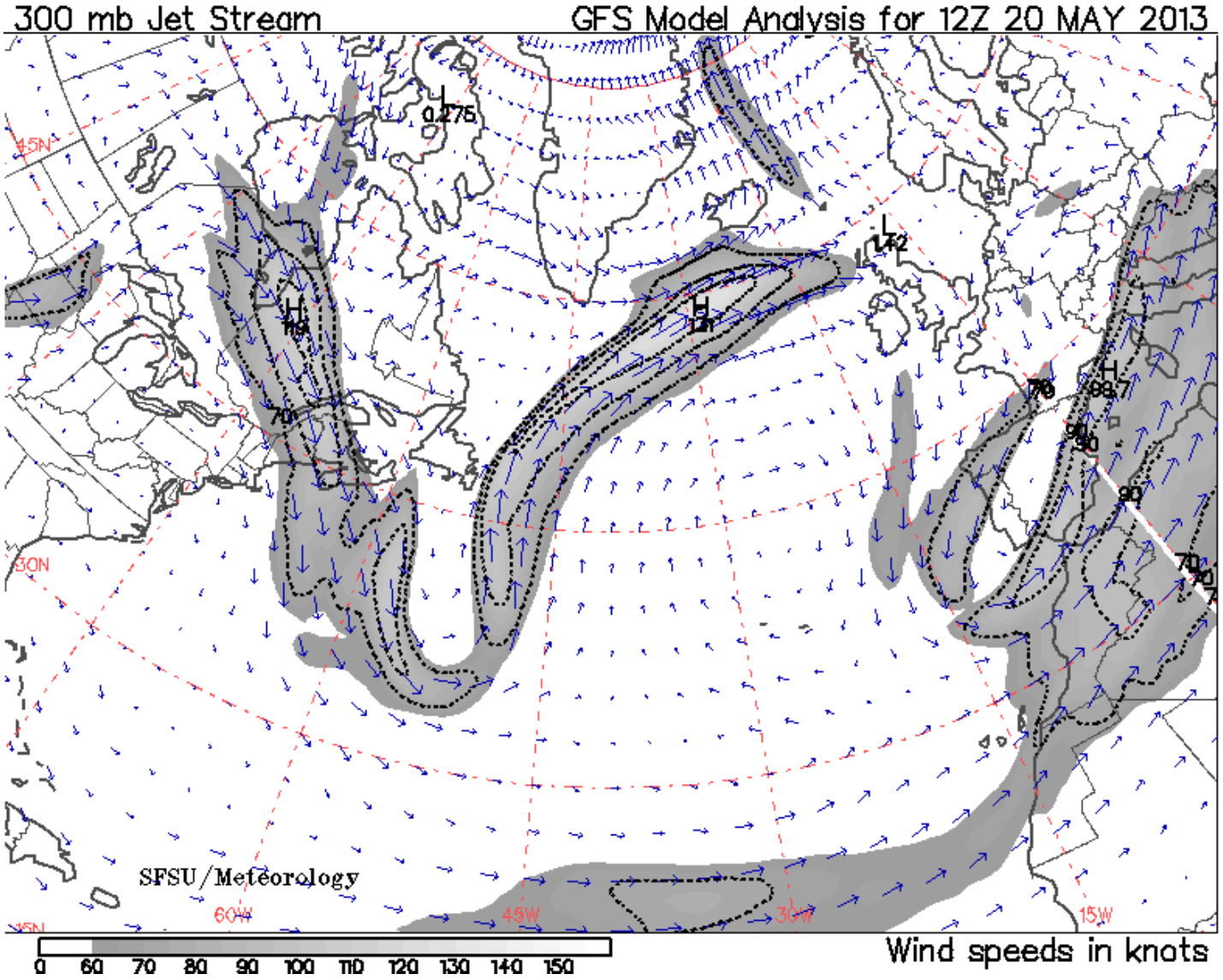
300 mb Jet Stream GFS Model Analysis for 12Z 17 MAY 2013

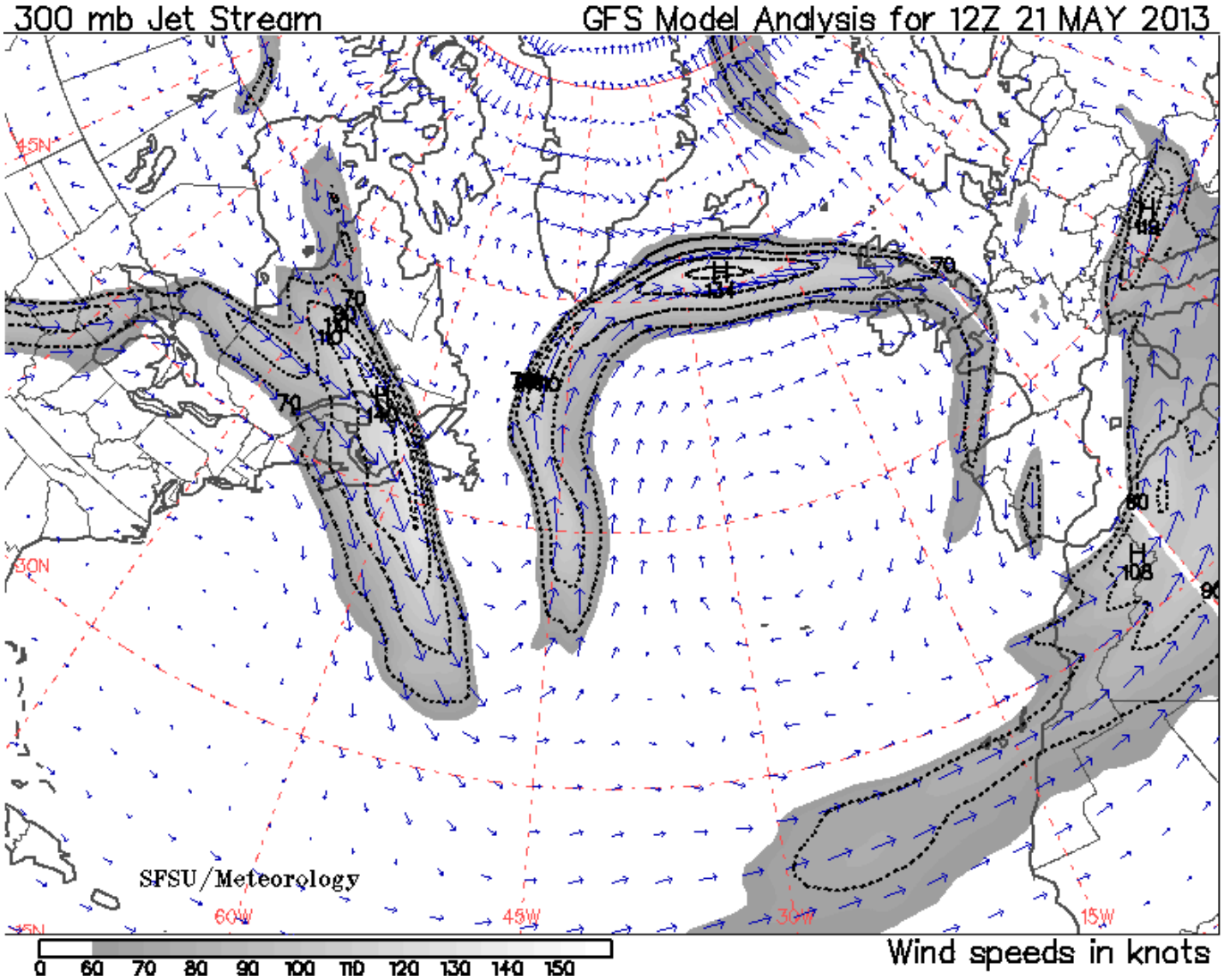


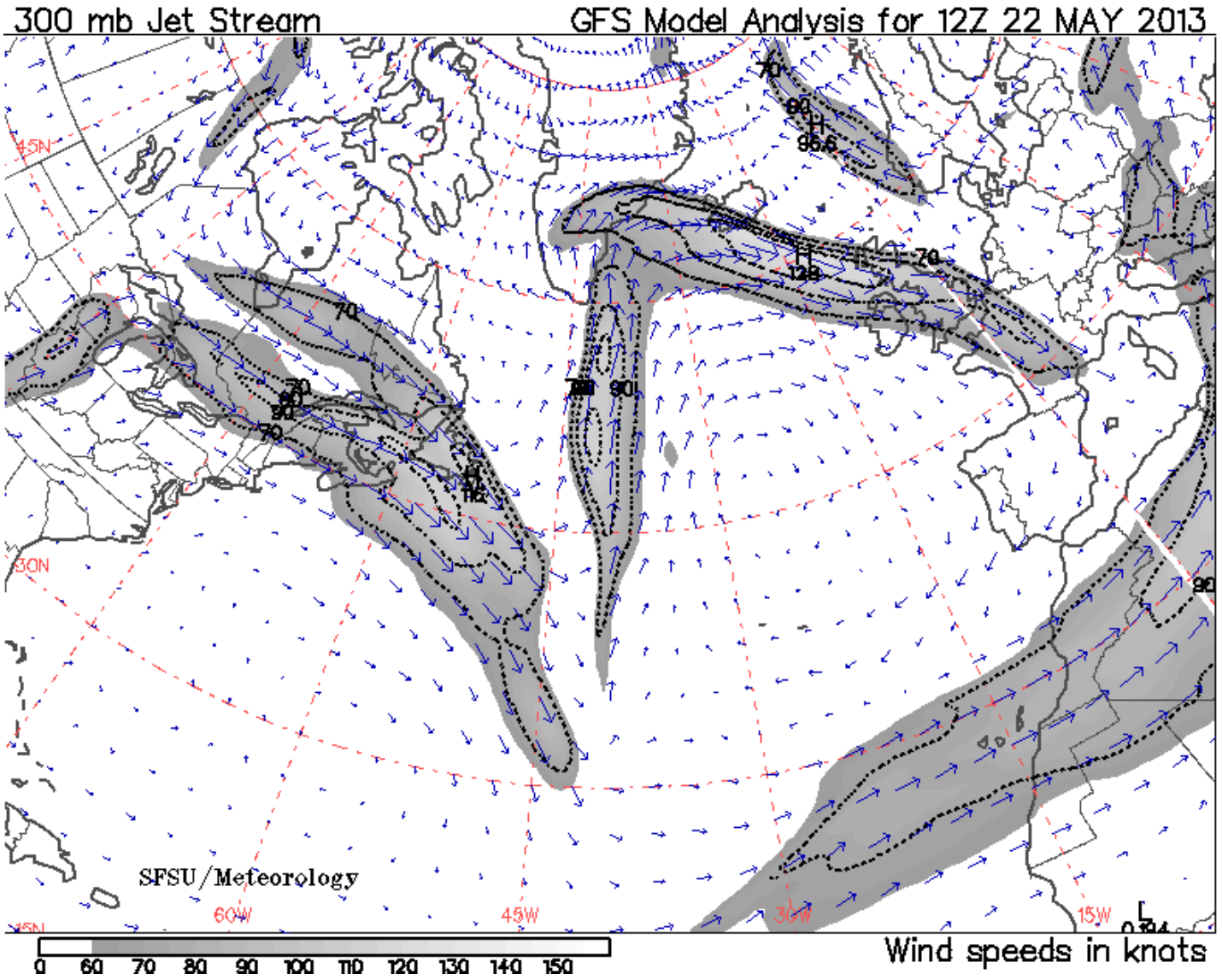
Wind speeds in knots

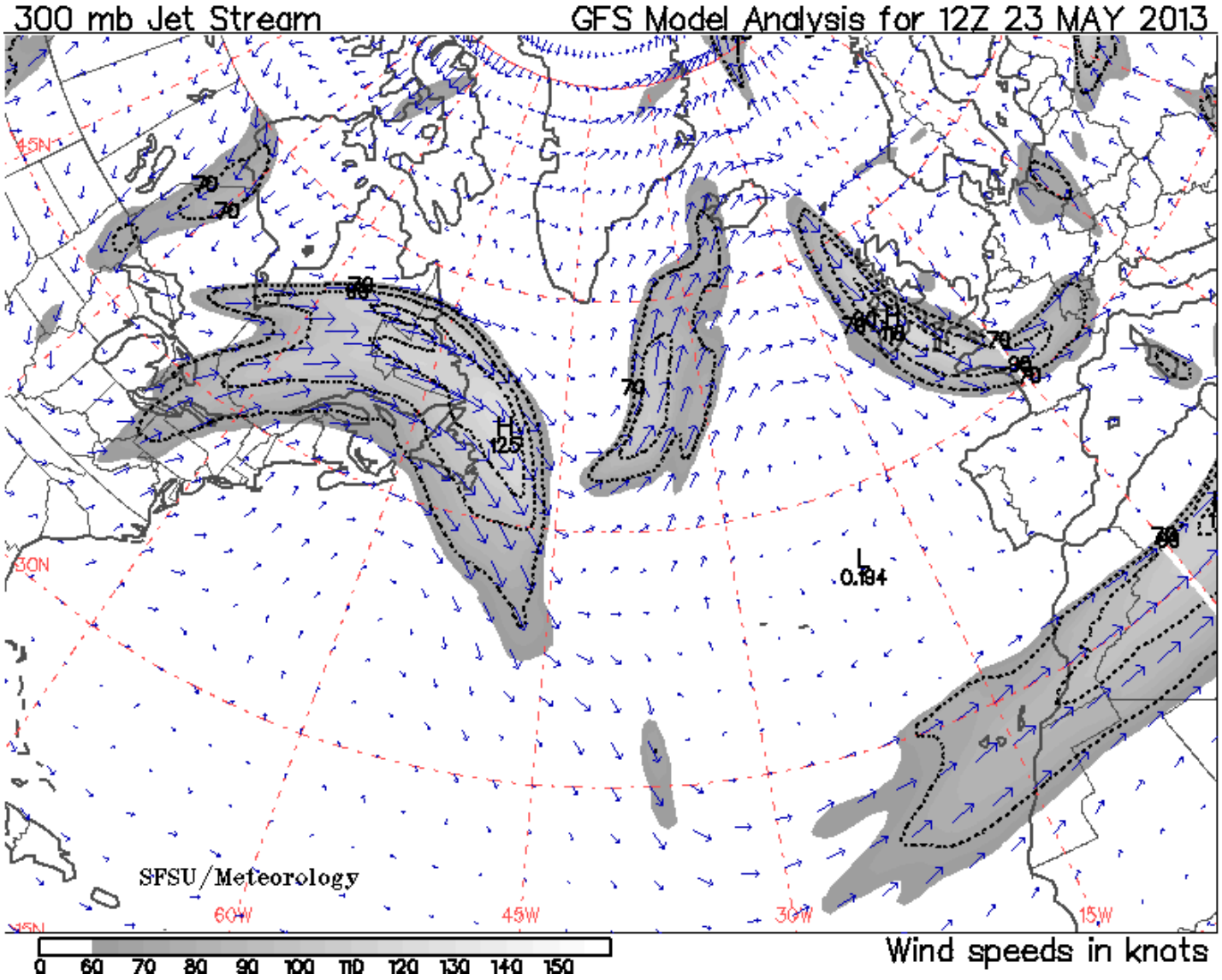

300 mb Jet Stream
GFS Model Analysis for 12Z 18 MAY 2013
0.701
0.194
0.194
65N
30N
15N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

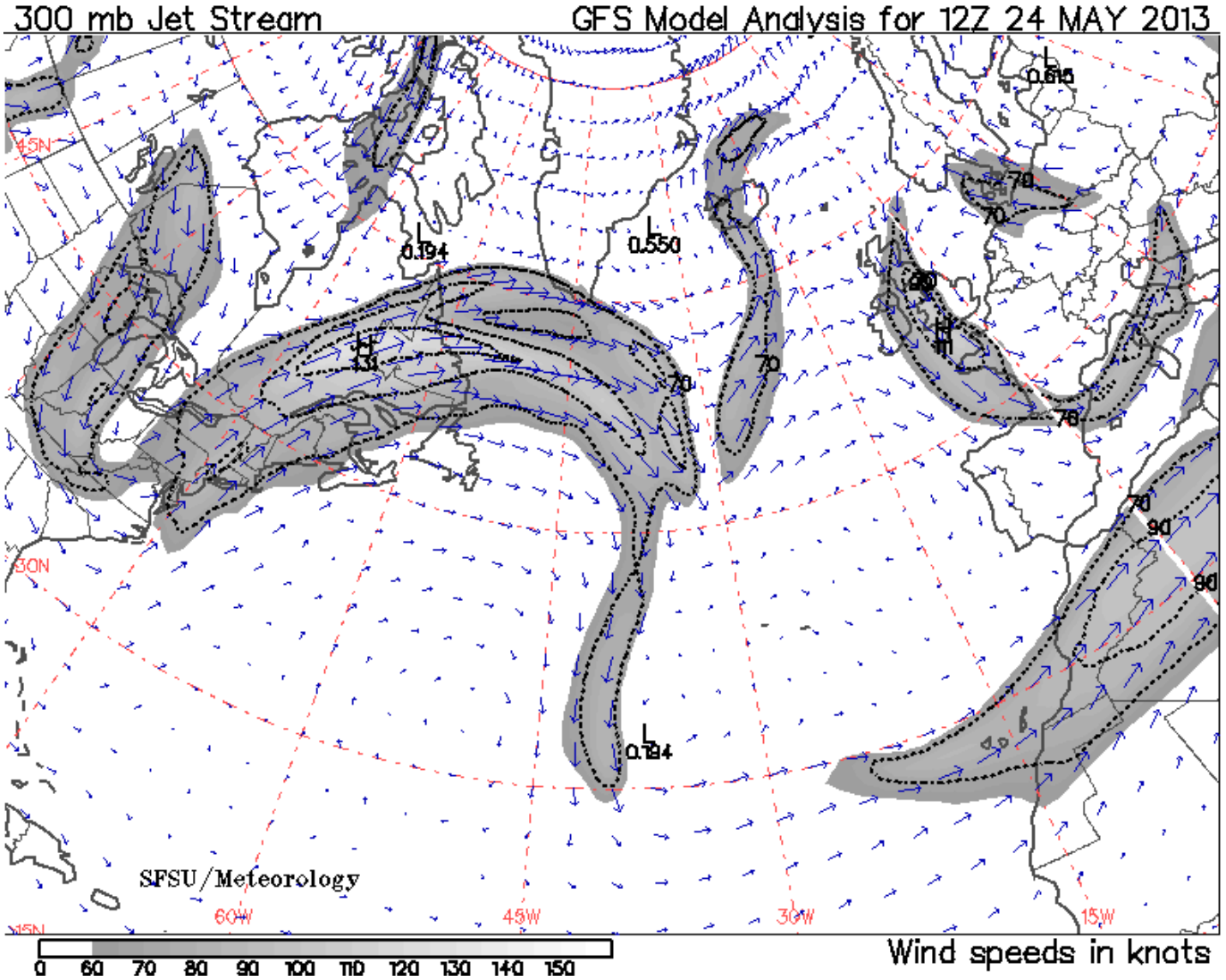

300 mb Jet Stream
GFS Model Analysis for 12Z 19 MAY 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150
45N
30N
60W
45W
30W
15W
H
125
H
112
H
108
L
0.515
70
90

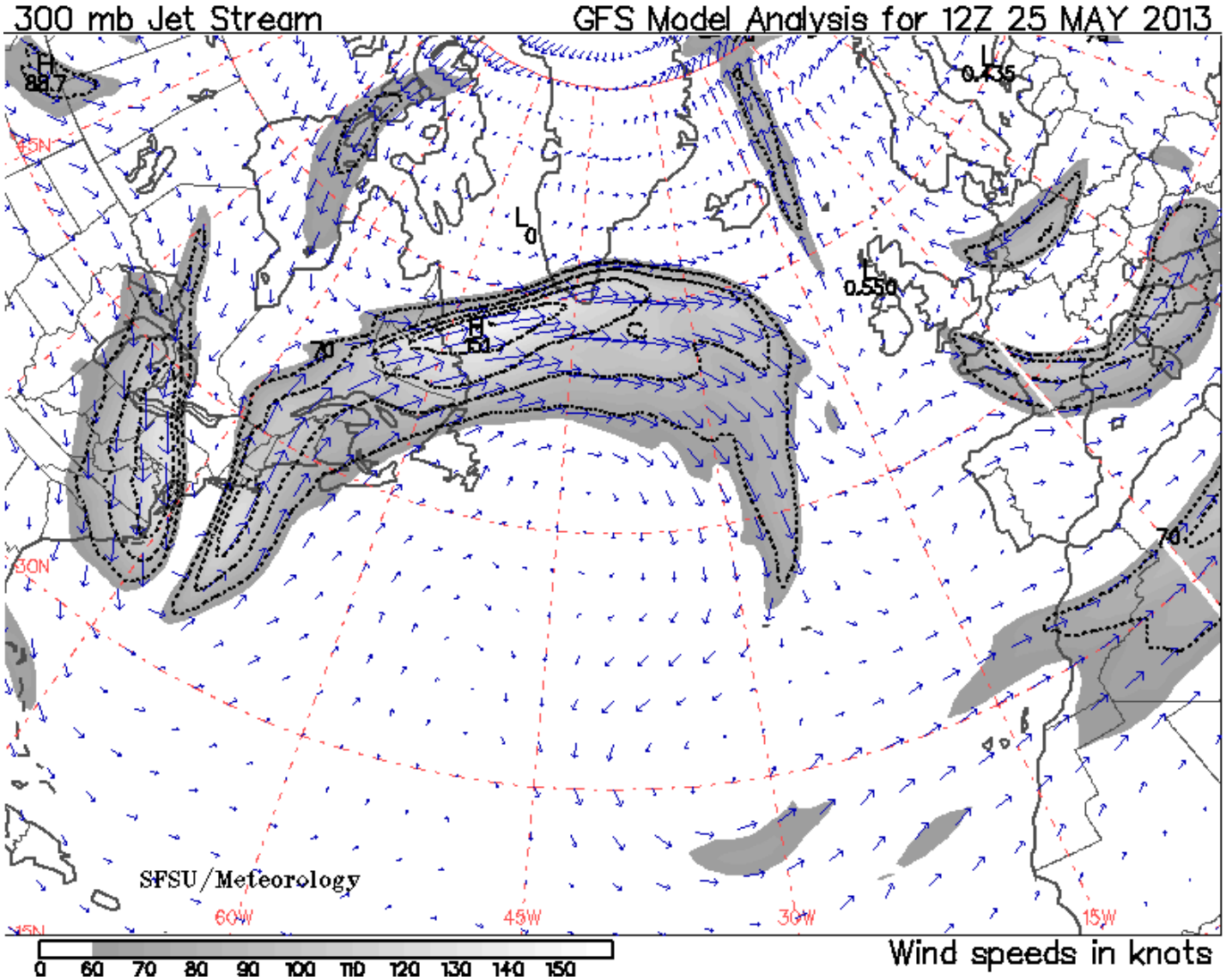

300 mb Jet Stream
GFS Model Analysis for 12Z 20 MAY 2013
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

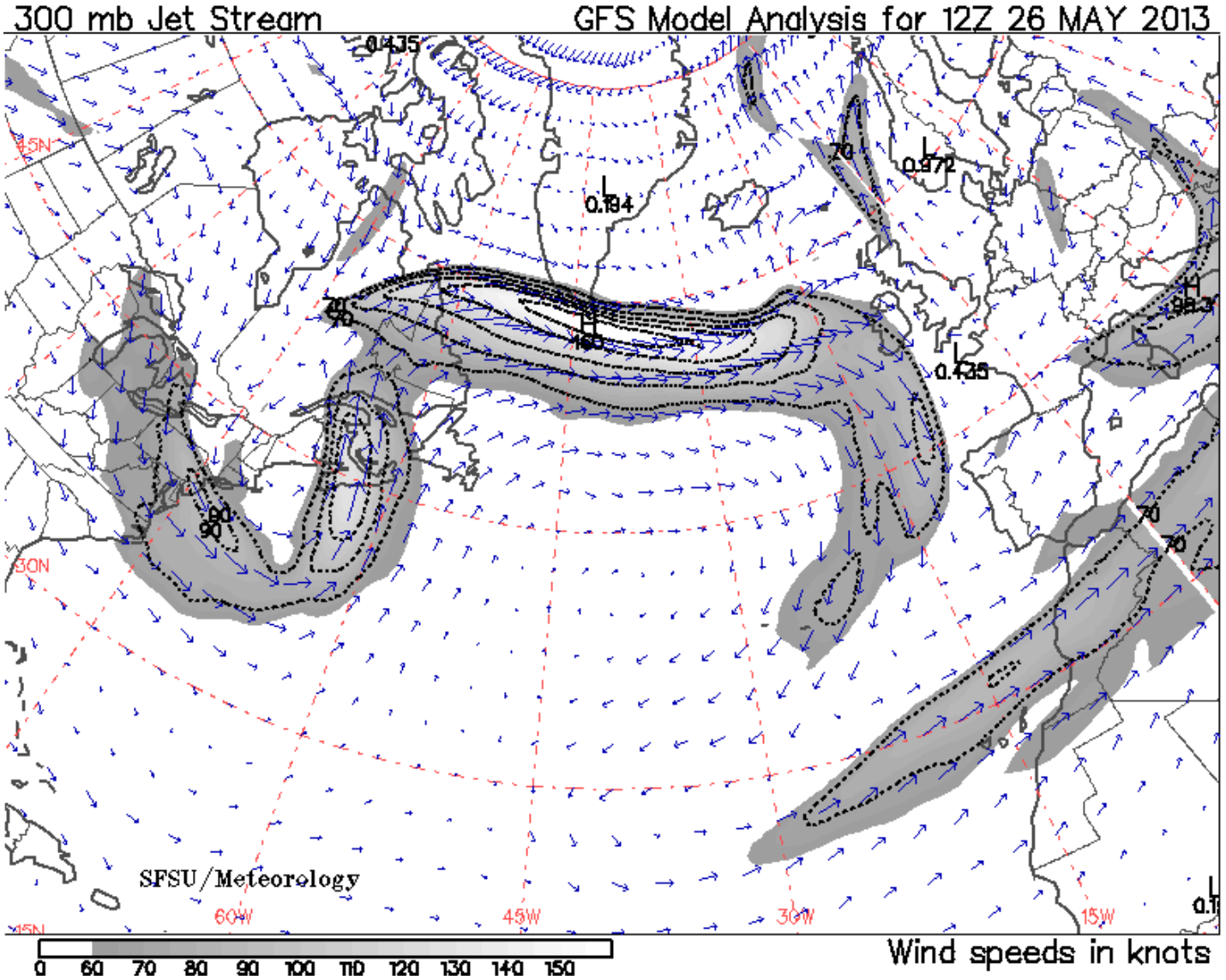

300 mb Jet Stream
GFS Model Analysis for 12Z 21 MAY 2013
45N
30N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

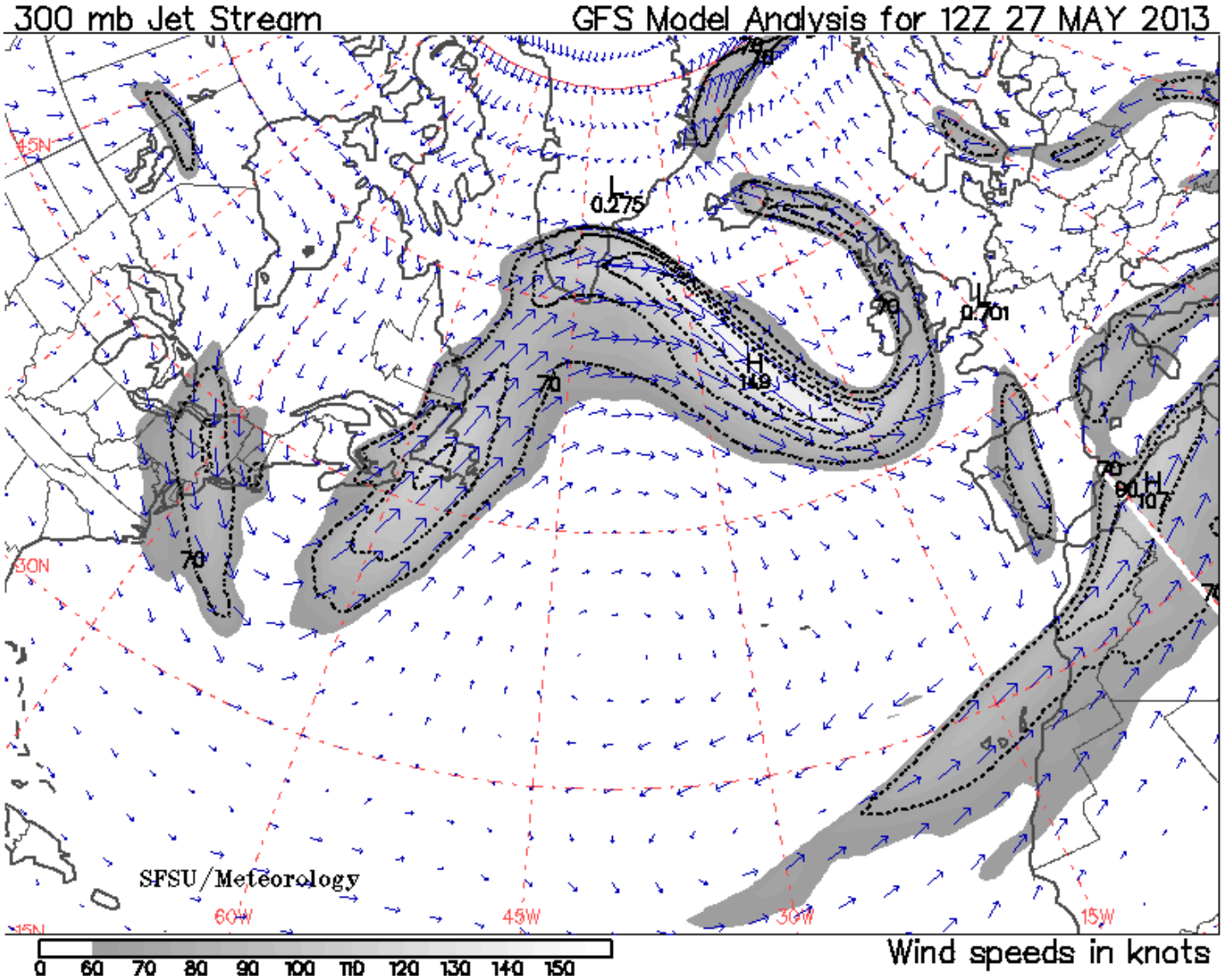

300 mb Jet Stream
GFS Model Analysis for 12Z 22 MAY 2013
45N
30N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

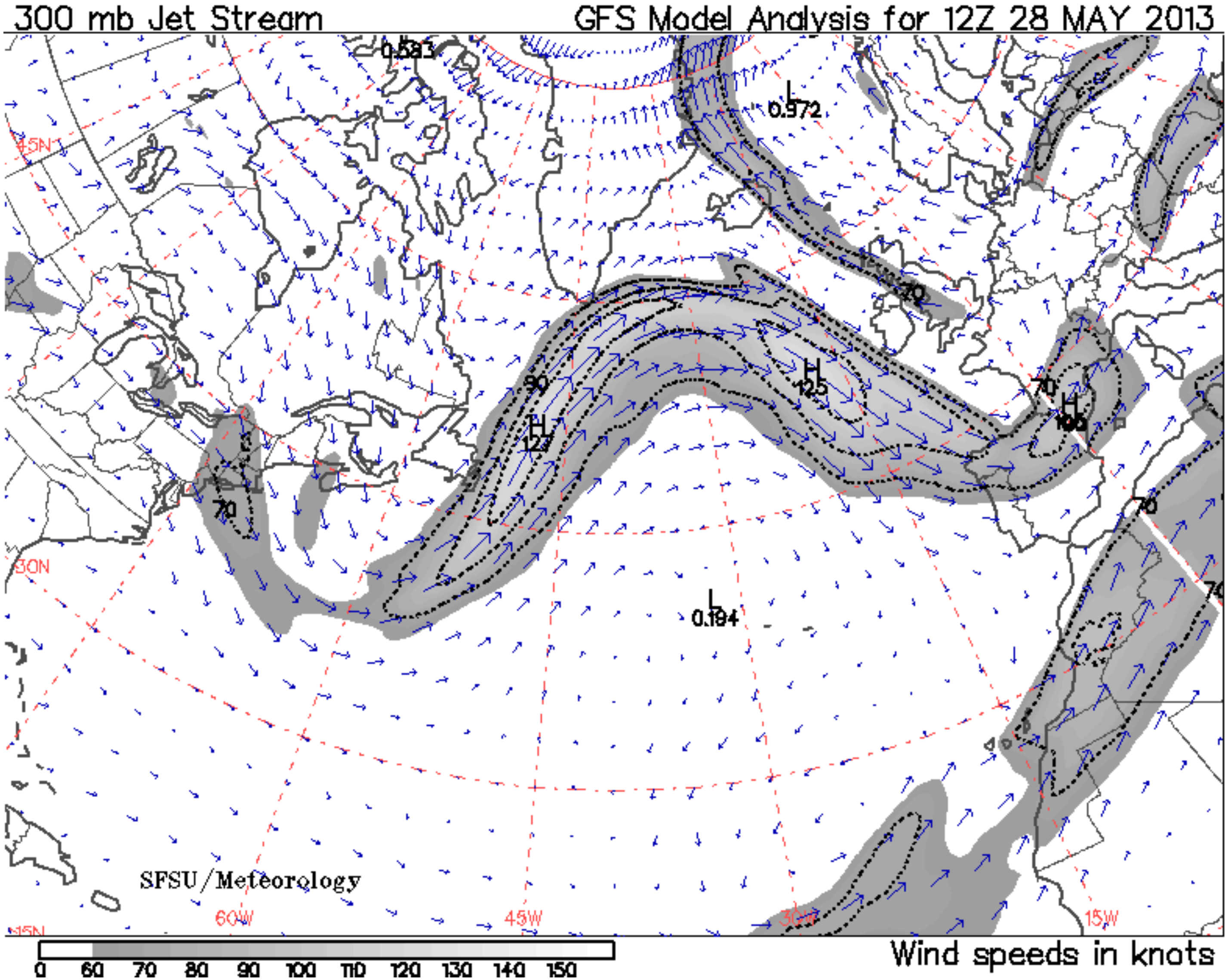

300 mb Jet Stream
GFS Model Analysis for 12Z 23 MAY 2013
45N
30N
60W
45W
30W
15W
70
80
90
H
125
L
0.194
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots

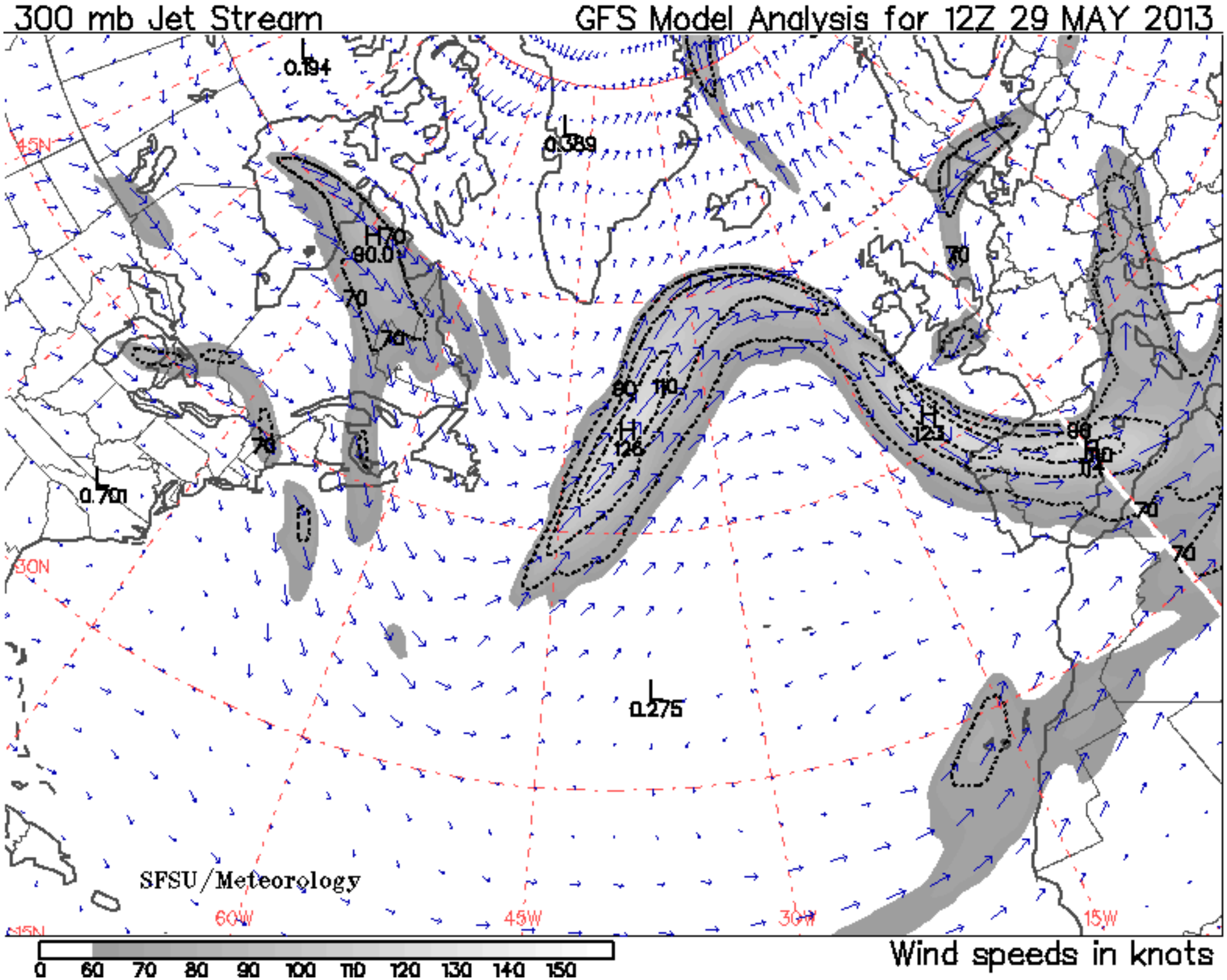

300 mb Jet Stream
GFS Model Analysis for 12Z 24 MAY 2013
45N
30N
15N
60W
45W
30W
15W
0.194
0.550
0.615
0.784
70
90
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 25 MAY 2013
H
88.7
L
0.735
L
0
L
0.550
H
150
90
70
75N
30N
60W
45W
30W
15W
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 26 MAY 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150


300 mb Jet Stream
GFS Model Analysis for 12Z 27 MAY 2013
45N
30N
15N
60W
45W
30W
15W
0.275
0.701
149
107
70
SFSU/Meteorology
0 60 70 80 90 100 110 120 130 140 150
Wind speeds in knots


300 mb Jet Stream
GFS Model Analysis for 12Z 28 MAY 2013
SFSU/Meteorology
Wind speeds in knots
0
60
70
80
90
100
110
120
130
140
150
45N
30N
60W
45W
15W
0.972
125
0.194

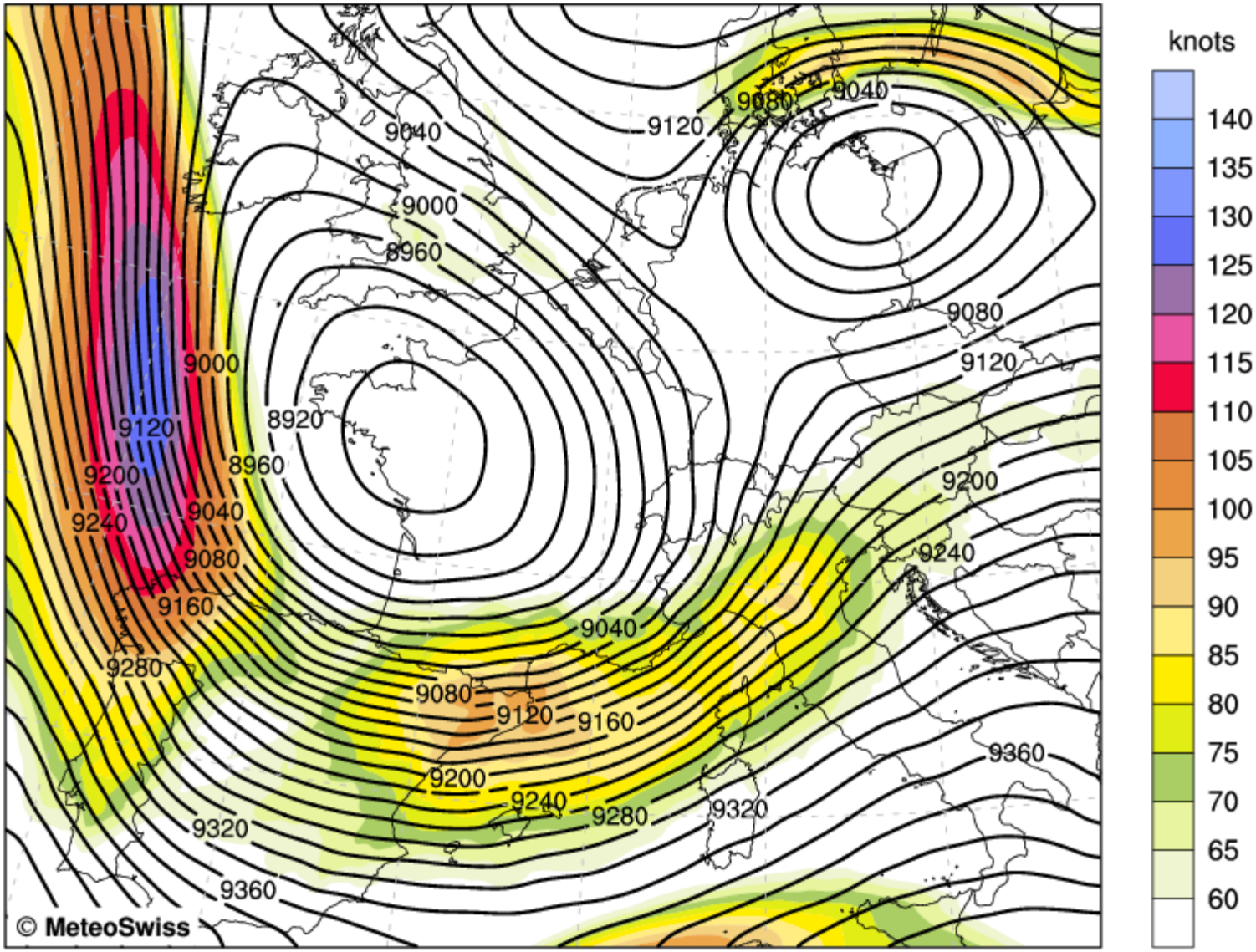


300 mb Jet Stream
GFS Model Analysis for 12Z 29 MAY 2013
SFSU/Meteorology
Wind speeds in knots
0 60 70 80 90 100 110 120 130 140 150
60W
45W
30W
15W
45N
30N

COSMO-7 ANALYSIS
300hPa Windspeed and Geopotential

Version: 933

Wed 29 May 2013 00UTC
29.05.2013 00UTC +00h



wind speed [knots], level = 300 hPa
Geopotential [gpm], level = 300 hPa

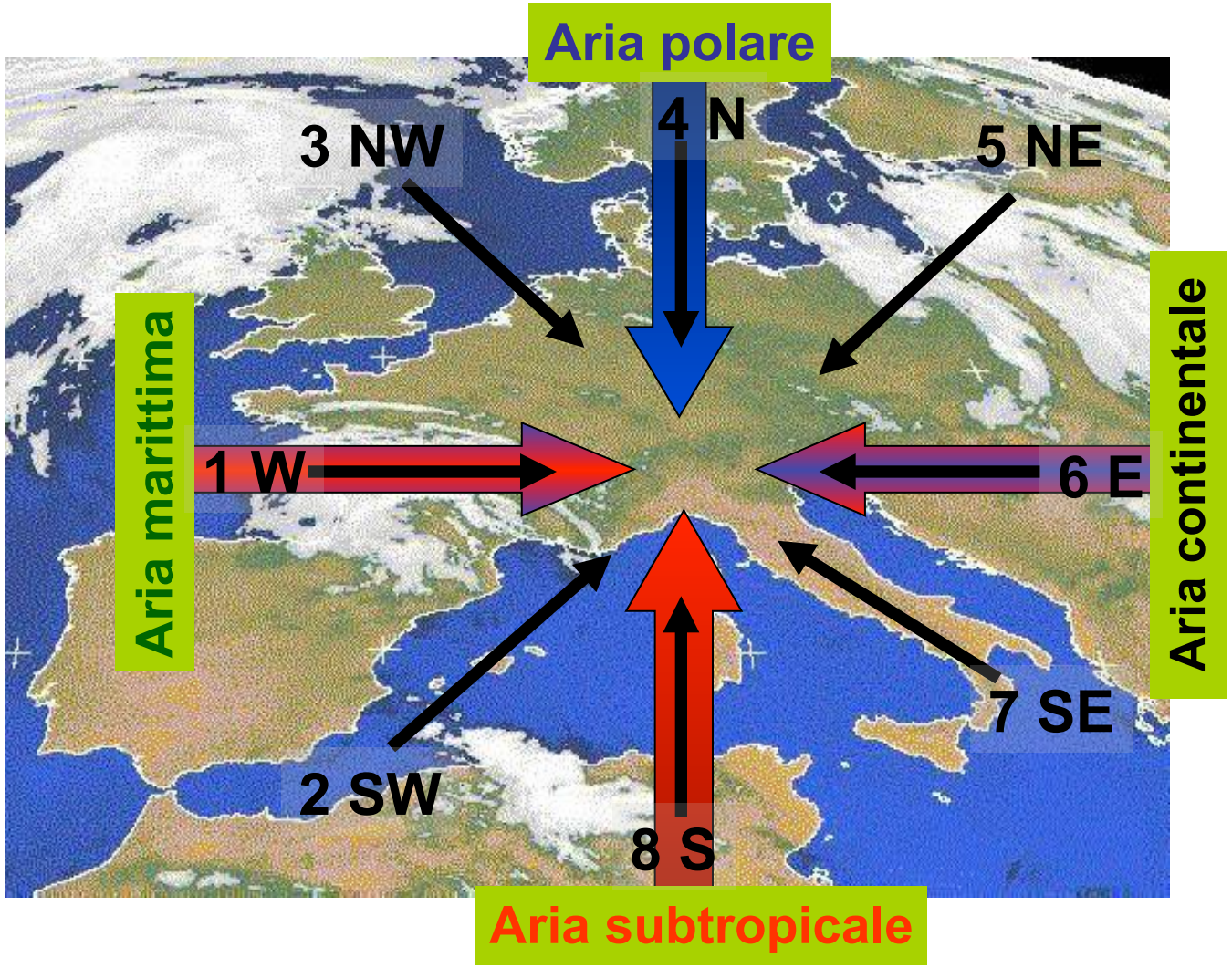
Mean: 53.4 Max: 99.3 [knots]
Mean: 9158.3 gpm

Riporto qui un commento alla situazione meteo di questa primavera tratto da “Corriere della Sera” del 25 Maggio 2013

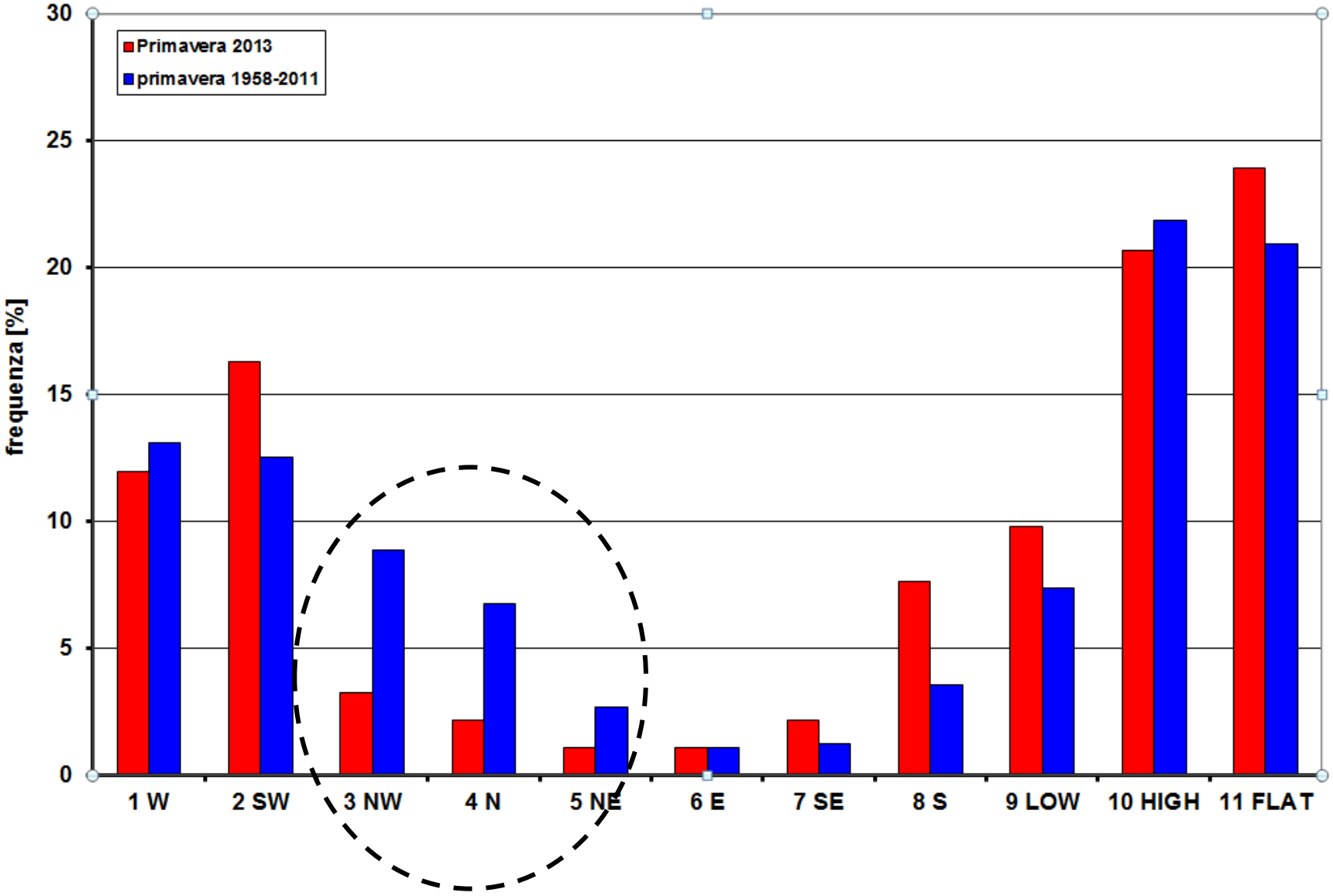
Intervista a Massimiliano Pasqui – Istituto di biometeorologia del CNR

“... Il colpevole è ben identificato: è l'anticiclone delle Azzorre rimasto bloccato sull' Atlantico. Ma non solo. Si è pure deformato diventando da circolare a una ellisse allungata che lambisce latitudini più elevate del solito: invece che arrivare sui 30-40 gradi Nord, giunge addirittura a 50-60 gradi. E allora accade che le correnti che arrivano da ovest quando lo incontrano si separino, aggirandolo, e percorrendo grandi spazi in poco tempo scendendo dal Nord ci portino il freddo e tutto ciò che ne consegue.
Ma perché si è deformato ad ellisse l'anticiclone? Le cause sono diverse.
Una riguarda il vortice polare che dopo averci dato grattacapi nei mesi scorsi estendendosi troppo a Sud ora ritirandosi nella sua area naturale sul Polo Nord ha favorito l'allungarsi verso l'alto dell'ellisse. L'altro elemento intervenuto influenzando la situazione è il monsone indiano che in questi giorni è entrato in attività creando un contrasto atmosferico efficace per danneggiare la primavera.

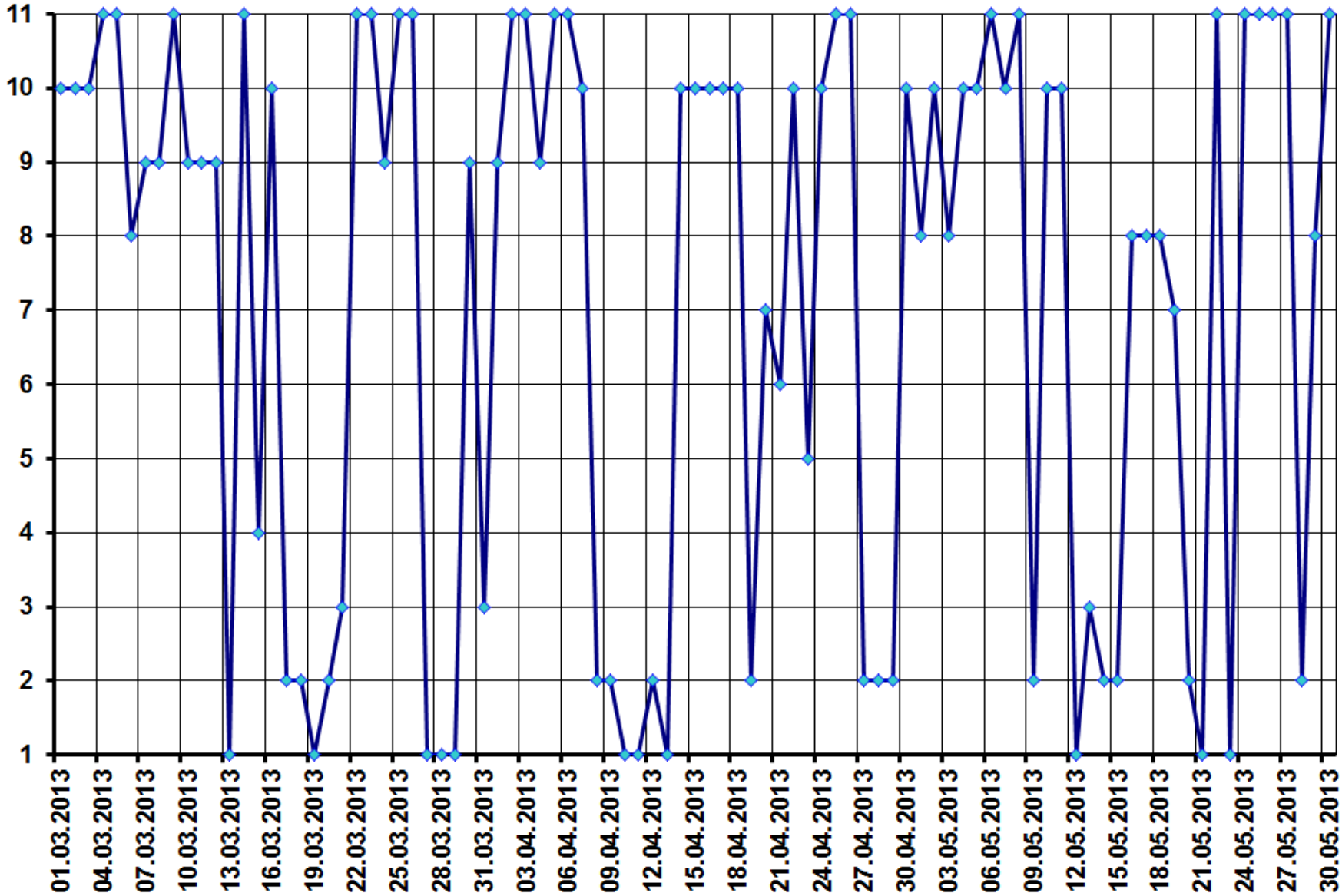
Masse d'aria diverse, tempo diverso, situazioni diverse



La distribuzione delle situazioni



Sequenza delle situazioni



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