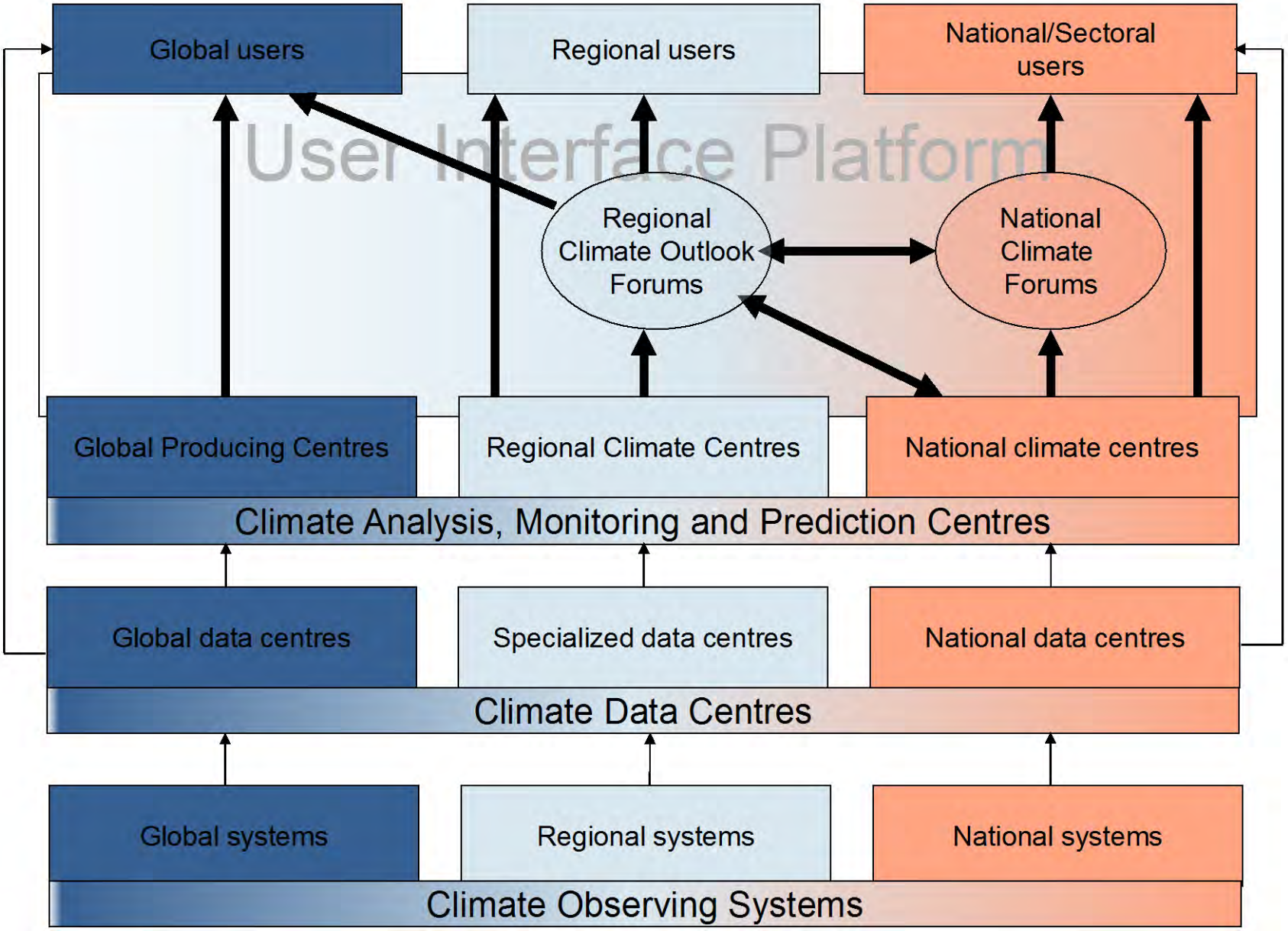
Translating Climate Information into Climate Services: RIMES initiatives

G Srinivasan
RIMES

Regional Stakeholder Consultation on Climate Services for the Third Pole Region
Holiday Inn Jaipur City Centre, Rajasthan, India
9-11 March 2016



WMO-RIMES GFCS project "Capacities and mechanisms for climate services production and delivery are in place in South Asia" – recently formalized under the Canadian Government

User Interface Platforms

Regional Outlook Forum/User Forums
SASCOF/Winter SASCOF

National Climate Outlook Forums

Demonstration Projects in key user sectors

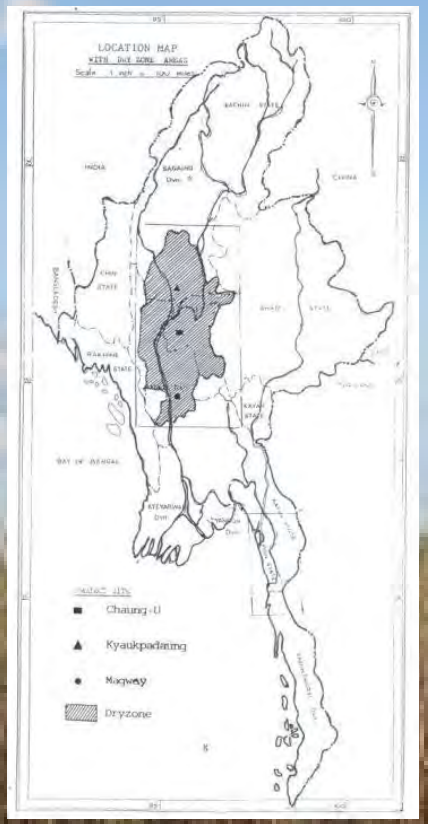
Documentation

Regular Capacity Assessments/gaps/potential projects

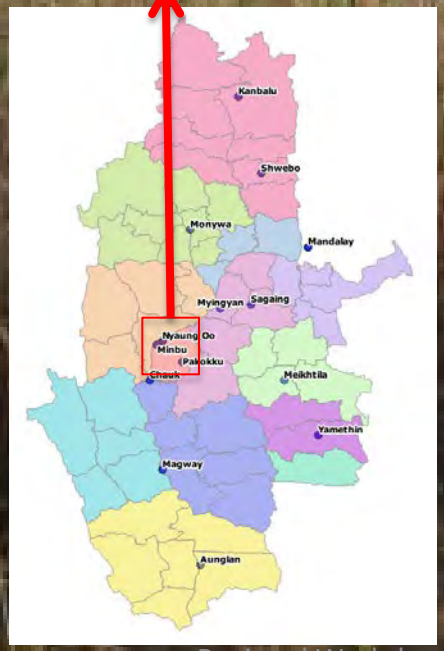
Research/involve a variety of stakeholders

Decision Support Systems (DSS) for key sectors

Myanmar Dry Zone



Nyaung Oo
Monywa



SESAME

(Specialized Expert System for Agro Met Early Warning)

A web based online platform to generate and disseminate agro-met bulletins based on short and medium range weather and climatic parameters http://agro.rimes.int/myanmar

- Customized for two pilot sites of Dry Zone in Myanmar viz. Nyuang Oo and Monywa.
- Built on two weather model input datasets
  - ECMWF Deterministic Forecast with 10 days lead time
  - WRF Model data from RIMES with 3 days lead time
- Capable of ingesting these two datasets and generate 10 days or decadal Agro-Met bulletins (email and fax) and 3 days short-term forecasts disseminated by SMS messages.

Inbox (758) - srini@rimes | Agro Advisory

agro.rimes.int/myanmar/index.php/home

Apps | Suggested Sites | Other bookmarks

Agro Advisory

SPECIALIZED EXPERT SYSTEM FOR AGRO METEOROLOGICAL EARLY-WARNING (SESAME)

A EXPERIMENTAL IMPLEMENTATION FOR THE DRY-ZONE REGION OF MYANMAR

MAIN NAVIGATION

- Overview
- Advisory
- Data Panel
- Climate Monitoring
- Links
- Logout

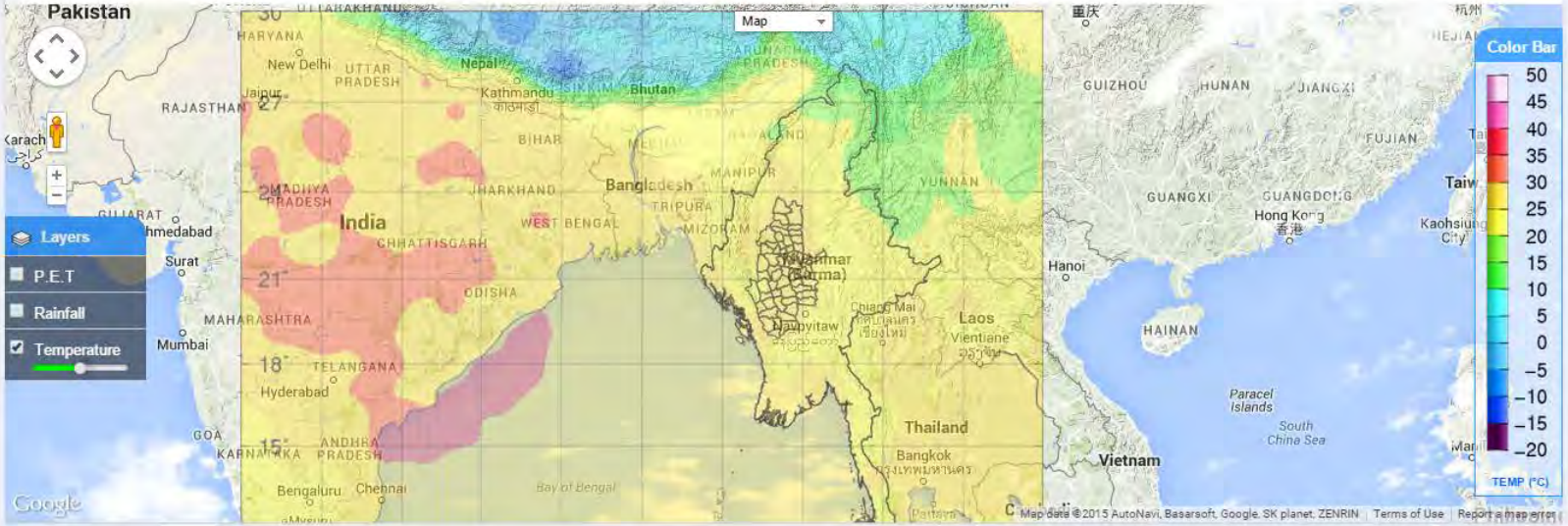
Dashboard

Overview | Dashboard

10 DAYS FORECAST | OBSERVATION MONITORING

Day [From 2015-05-28 To 2015-06-07]

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10



Most Recent Advisories

May 21-31	
Location Name	Monywa
Accumulated Rainfall	Expected accumulated rainfall for dekad 21-31 May 2015 is 3.0875 The spell is expected to be mostly Dry
Temperature Forecast	Expected variation in this dekad 21-31 May 2015 is likely to from maximum temperature of 37.345 to minimum temperature 27.0625
Wind Forecast	Expected Wind for 21-31 May 2015 is likely to to be of Average wind speed of 14.4875

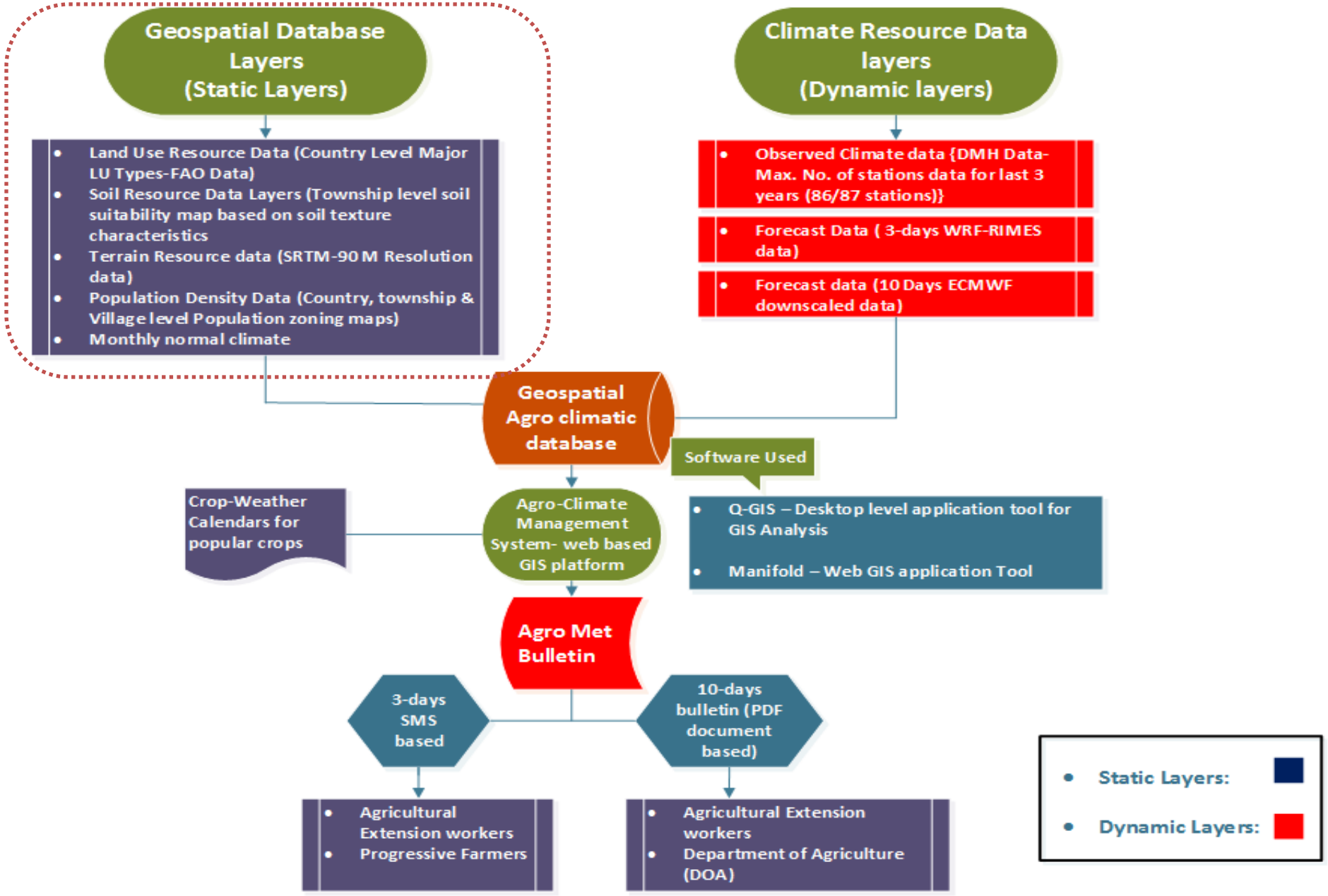
Bulletin

May 21-31	
Location Name	Nyuang Oo
Accumulated Rainfall	Expected accumulated rainfall for dekad 21-31 May 2015 is 1.555 The spell is expected to be mostly Dry
Temperature Forecast	Expected variation in this dekad 21-31 May 2015 is likely to from maximum temperature of 36.52 to minimum temperature 26.54
Wind Forecast	Expected Wind for 21-31 May 2015 is likely to to be of Average wind speed of 16.7025

Bulletin

Manila_IRRI_June_1_... | Agro Advisory - Goo... | RIMES_CCAFSworks... | Untitled - Paint | stephen curry | 2:50 PM

System Workflow



Data and Models

Crop data and Crop weather Calendar

6 crops for both locations is incorporated within the system.

- **Paddy**
- **Sesame**
- **Pigeon Pea**
- **Cotton**
- **Chilli and**
- **Groundnut**

Crop Weather Calendar is also being incorporated within the system to correlate decadal weather parameters with present crop stage.

Decades	Period	Paddy	Seasam	Pegion Pea	Cotton	Chilli	Groundnut
1	1-10 Jan			EH 1 2 4 5		7 1 2	
2	11-20 Jan			1 2 4		1 2	
3	21-31 Jan					LH 1 2 4 7	
4	1-10 Feb	1 2 4				1 2 4 7	
5	11-20 Feb	LH (1, 2, 4)				1 2 4 7	
6	21-28 Feb	1 2 4					
7	1-10 March	1 2 4		LH 1 2 5			
8	11-20 March			1			
9	21-31 March			1			
10	1-10 April		ES 1		1		
11	11-20 April		1 2		1	1	1 2
12	21-30 April		1 2		1	1	1 1 2
13	1-10 May		1	ES 1	ES 1 2		1 ES 1
14	11-20 May		1	1 2	1 2	1 2	1 2
15	21-31 May	1 2			1	1 ES 1 2 4	1 2
16	1-10 June	ES (1)	S 1		1 LS 1 2	1 2	1 2
17	11-20 June	1 2	1 2		1 1 2	1 2	1 2
18	21-30 June	1 2		1 LS 1 2		1 1 2	1 2
19	1-10 July		1 LS 1	1 2		1 1 2	LS 1
20	11-20 July		1 1 2		1	1	1 1 2
21	21-31 July	1 2	1 2	1 2	1 5	1 2	1 2
22	1-10 August	LS (1, 2)	EH 1 2 4		1 EH	LS 1 2 4	1 2
23	11-20 August	1 2	1 2		1 1 5	1 2	1 2
24	21-30 August	1 2	1 2		1 1 5	1 2	1 2
25	1-10 September		1		1 1 5	EH 1 2 4 7	1 2
26	11-20 September		1		1 1 5	1 2 4 7	1 2
27	21-31 September	1 2 4	LH 1 2 4		1 LH	1 2 4 7	EH 1 2
28	1-10 October	EH (1,2,4)	1 2		1	1 2	LH 1 2
29	11-20 October	1 2 4	1 2		1	1 2	
30	21-30 October	1 2 4			1	1 2	
31	1-10 November				1	1 2	
32	11-20 November				1	1 2	
33	21-30 November				1	1 2	
34	1-10 December			1 5		7 1 2	
35	11-20 December			1 5		7 1 2	
36	21-31 December			1 5		7 1 2	

Code Identification:

S - Sowing
ES - Early Sowing
LS - Late Sowing
EH - Early Harvesting
LH - Late Harvesting
1 - Rainfall forcast Required
2 - Temp Max. Forecast Required
3 - Temp.Min.Forecast Required
4 - Windspeed Forecast Required
5 - Fog Warning
6 - Hailstorm Warning
7 - Thunderstorm Warning

…thank you