

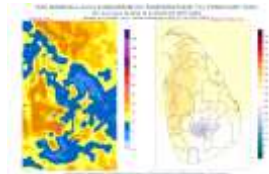


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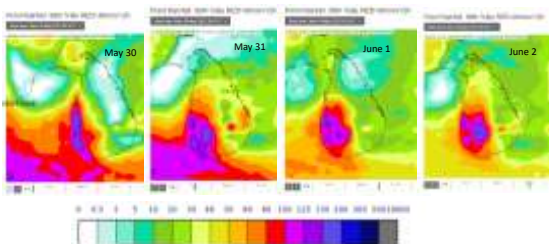
- Observations and Recommendations on Met Forecasts.
- Flood Monitoring and Early Warning Practices in Sri Lanka.
- Areas under the highest threat of flood during the period of pre-monsoonal disturbances and South–West monsoon.

Observations and Recommendations on Met Forecasts

- 10 day forecasts are very useful specially in flood forecasting and early warning.
- 10 day forecasts are reasonably accurate.



- Seasonal Forecasts are not so critical in flood management but very critical in Water Management.
- It may lead to considerable economic damage if incorrect.
- Categorization of Seasonal Forecast as “Above Normal”, “Below Normal” do not have much sense in the areas of Water Management if not mentioned to what extent.



- Short range and medium range forecasts (3days ahead, 10 days ahead etc) are very critical in flood management.

Flood Monitoring and Early Warning Practices

Hydro-meteorological Monitoring Systems of Sri Lanka

Hydro-meteorological data

- River Water Level
- River Discharge
- Rainfall



Present practices of Flood Monitoring and Forecasting in Sri Lanka

Flood Monitoring Systems

1. Manual System



- **2. Semi Automated System**
(www.irrigation.gov.lk – Realtime water level in major rivers)



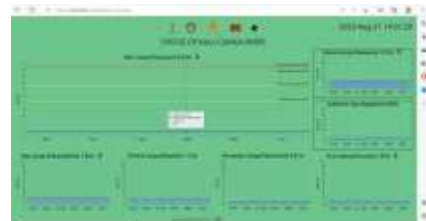
- **Hydro-Meteorological Information System**
(Not open for public)



- **4. Rivernet** (www.rivernet.lk)



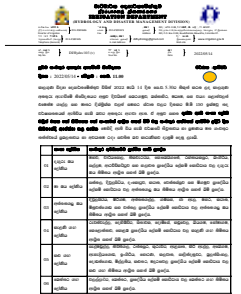
- **5. Wari Soba System**



Present Flood Forecasting and Warning Practices

Common Prior Flood Warning Messages are issued based on;

1. Short Range and Medium Range Forecasts issued by DOM
2. Soil moisture situation of catchment
2. Water level situation of rivers and upstream reservoirs



Thereafter, river basin wise flood warnings are issued based on, **Observed Rainfall, Observed River Water Level, River Trend, and flood model results**, basin wise flood warnings are issued.



Reservoir Status by 11th of March 2023

Sl. No.	RESERVOIR	AASL	STORAGE (CUM)			TOTAL STORAGE CAPACITY (CUM)	PERCENT STORAGE	STATUS
			EXISTING	AVAIL.	MAX.			
1	Atkal	400000000	4000	4000	4000	100%	100%	OK
2	Bhadracharya	400000000	3000	3000	4000	75%	100%	OK
3	Channarayana	400000000	3000	3000	4000	75%	100%	OK
4	Channarayana	400000000	3000	3000	4000	75%	100%	OK
5	Channarayana	400000000	3000	3000	4000	75%	100%	OK
6	Channarayana	400000000	3000	3000	4000	75%	100%	OK
7	Channarayana	400000000	3000	3000	4000	75%	100%	OK
8	Channarayana	400000000	3000	3000	4000	75%	100%	OK
9	Channarayana	400000000	3000	3000	4000	75%	100%	OK
10	Channarayana	400000000	3000	3000	4000	75%	100%	OK
11	Channarayana	400000000	3000	3000	4000	75%	100%	OK
12	Channarayana	400000000	3000	3000	4000	75%	100%	OK
13	Channarayana	400000000	3000	3000	4000	75%	100%	OK
14	Channarayana	400000000	3000	3000	4000	75%	100%	OK
15	Channarayana	400000000	3000	3000	4000	75%	100%	OK
16	Channarayana	400000000	3000	3000	4000	75%	100%	OK
17	Channarayana	400000000	3000	3000	4000	75%	100%	OK



Areas under highest threat of flood during the period of pre-monsoonal disturbances

Based on the past observation data, During Pre-Monsoonal Period, onset of South – West Monsoon and during the first half of South – West monsoon, flood threats are higher in Flood Prone Valleys of following river basins.

1. Kala Oya
2. Deduru Oya
3. Maha Oya
4. Attanagalu Oya
5. Kelani Ganga
6. Kalu Ganga
7. Gin Ganga
8. Nilvala Ganga

In addition, there are considerable flood threats in following river basins

1. Mahaweli Ganga
2. Bentara Ganga
3. Kirama Oya
4. Uruboku Oya



Thank You