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## Introduction

### 1.1 Background

Systematic observation of meteorological parameters in Sri Lanka has started in 1867 under the Survey Department and was later continued by the Colombo Observatory after 1909. The Colombo Observatory became an independent government department – Department of Meteorology in 1948 with the main objective of providing weather and climate services. At present, the Department of Meteorology functions under the purview of the Ministry of Disaster Management.

### 1.2 Functions

The following major functions are accomplished by the department as the government statutory body providing meteorological and climatological services.

1. Observing weather elements in conformity with international standards
2. Provision of weather and climatological services as the national authority
3. Provision of early warning information/advisories on bad weather and tsunami
4. Provision of meteorological services to national and international aviation
5. Maintaining climatological databases
6. Encouraging study and research in Meteorology and allied subjects
7. Organizing and contributing to public awareness programs
8. Provision of limited astronomical and terrestrial magnetism related services.

### 1.3 Institutional Structure

The Department is administered by a Director General and consists of 05 major divisions which are administered by 05 Directors with 11 affiliated sub divisions.

In addition to the headquarters, 22 regional meteorological stations, 36 automated meteorological observation stations, 35 agro meteorological stations and approximately 400 rain gauge stations are maintained by the department.

### 1.4 Responsibilities of Divisions

Serial Number	Main Division	Sub – Division	Responsibilities
1.	Observation Network and Instruments	1.1 Instrument Division	Repair and maintenance of meteorological equipment, assisting in carpentry and technical matters, participation in exhibitions
		1.2 Electrical and Electronic Maintenance Division	Repair and maintenance of electrical/electronic meteorological equipment, maintenance of automated weather systems, satellite data receiving systems

		1.3 Radiosonde Division	Observations of upper atmospheric information, archival of upper atmospheric data, conducting awareness generation activities for visitors to the department
		1.4 Regional Meteorological Stations	3 hourly surface meteorological observations, continuous weather monitoring , 6 hourly upper air observation (at upper air stations)
2.	Data Processing and Archival	2.1 Data Division	Quality control and archival of continuous self-recording meteorological equipment information
		2.2 Climate Division	Coordination and management of regional stations, quality control and archival of climate data
		2.3 Rainfall Division	Coordinating rainfall network stations, quality control and archival of rainfall data
		2.4 Agro-meteorology Division	Coordination of agro meteorology network stations, quality control and archival of agro-meteorological data
		2.5 Computer Division	Quality control and archival of meteorological data in electronic formats, maintenance of climate databases, Supply of meteorological data to outside users, maintenance and renovation of the departmental website.
		2.6 Library	Maintaining the library
		2.7 Record Room	Preservation of printed documents relevant to data and information
3.	Forecasting and Decision Support	3.1 National Meteorological and Early Warning Centre	Re- processing and analyzing of meteorological data, weather forecasting and dissemination, functioning as the national tsunami and weather hazard early warning Centre
		3.2 Telecommunication Division	Exchanging meteorological observations/data; dissemination of weather forecasts, early warnings and advisories

		3.3 Airport Meteorological Stations	Providing data/ information required for aviation meteorological services in conformity with International Civil Aviation Organization (ICAO) and World Meteorological Organization (WMO) regulations
4.	Research, Training and Development	4.1 Research Division	Conducting meteorological and climatological research
		4.2 Training Division	Training and conducting departmental examinations
		4.3 Centre for Climate Change Studies	Conducting climate change related work
5.	Administration and Finance	5.1 Establishment Division	Establishment functions related to the staff
		5.2 Finance Division	Finance related functions
		5.3 Procurement Division	Procurement, Storing and Distribution
		5.4 Special Procurement Division	Overseas procurement/purchase related activities
		5.5 Transport Division	Maintenance of vehicles and Transport related functions
		5.6 Construction Division	Coordination of Departmental Buildings Construction and Maintains activities.

## **2. Performance**

### **2.1 Meteorological Data Network**

#### **2.1.1 Meteorological Observations**

Meteorological data observed at the observation networks of the Department of Meteorology can be broadly categorized as surface meteorological data and upper atmospheric meteorological data

##### **2.1.1.1 Surface Observations**

###### **2.1.1.1.1 Synoptic Meteorological Information**

Surface synoptic meteorological observations are made at the regional meteorological stations at 3 hourly intervals. The observed data are thereafter coded and immediately transmitted to the Colombo Telecommunication Division for feeding into the Global Telecommunication System (GTS) for international dissemination. Colombo National Meteorological Centre and the airport meteorological stations also use these data for their weather analyses.

During the year 2015, a total of 60,813 surface meteorological observations including observations on rainfall, pressure, temperature, humidity, wind, visibility, weather and types and amounts of clouds have been made at the surface meteorological network stations of the Department of Meteorology.

In addition, major weather parameters are observed through the self-recording instruments installed at meteorological stations. The number of Pluviographs (rainfall), Thermographs (temperature), Hygrographs (humidity), Barographs (surface pressure), Sunshine Cards (sunshine duration) utilized during the year 2015 are 7090, 7339, 6982, 983, 3121 and 175 respectively.

###### **2.1.1.1.2 Rainfall Information**

The network of rain gauge stations established throughout the island for the purpose of observing rainfall data comprises of 487 rain gauge stations and out of this number, data are regularly received from 410 stations. These stations are maintained in collaboration with government and non-governmental institutions and voluntary observers. Rainfall is measured daily at 08.30 hours at these stations and the daily rainfall report is obtained by the department at the end of the month. Daily rainfall data from 215 stations selected island-wide are obtained on daily basis to be used for weather forecasting purposes.

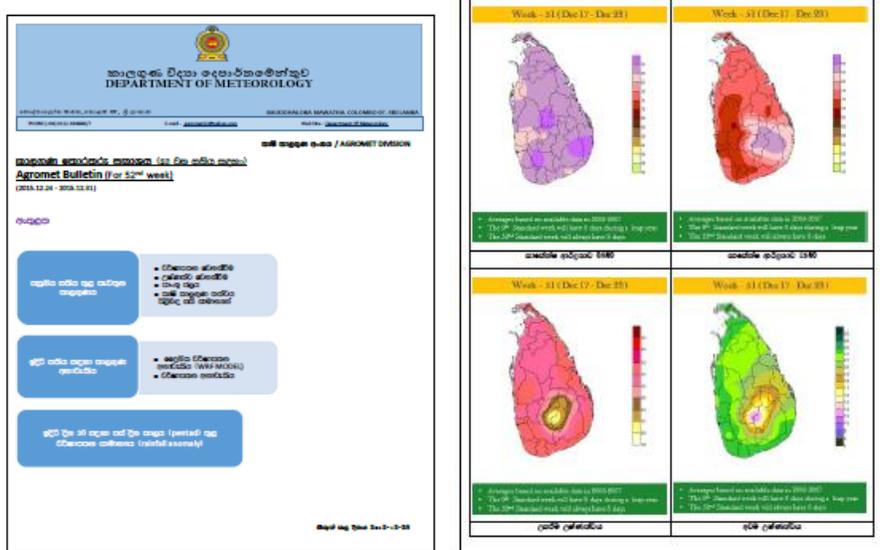
314 government and non government institutions and voluntary observers who maintain rain gauges to obtain rainfall data have been trained through training workshops during in the year 2015.

### 2.1.1.1.3 Agro Meteorological Information

The network of agro-meteorology stations belonging to the department consist of 39 nos. and at these stations, in addition to the general meteorological observations, soil temperature at different depths, minimum observed temperature on grass, evaporation rates and hours of sunshine are measured and the observations are made at these stations twice a day at 08.30 am and 03.30 pm.

These data received by the Agro meteorological division at the headquarters , are quality controlled and supplied to interested parties. During the year 2015, a total amount of Rs. 542,000.00 has been collected by supplying agro-meteorological data to outside parties.

In the year 2015,it was initiated to issue “ a publication of meteorological information” having analyzed and mapped the information obtained and other meteorological data, along with the expecting meteorological changes and agro meteorological information. This is disseminated via internet each week.



### 2.1.1.2 Upper Atmospheric Information

The observation of meteorological parameters at different heights (levels) of the atmosphere are named as upper atmospheric observations. In Colombo, upper air observations are made thrice a week at 0600 hours UTC using the radiosonde equipment up to a height of approximately 20 km from the surface. The total number of radiosonde observations made during the year 2015 was 152. In addition to radiosonde observations, upper atmospheric wind information is calculated utilizing the Pilot Balloon observations. In addition to Colombo, the pilot balloon observations are made at Mannar, Hambantota, and Polonnaruwa stations. The number of Pilot Balloon observations conducted in Colombo and the above mentioned stations during the last year were 874, 591, 618, and 324 flights respectively.



### **2.1.2 Quality Control and Archival**

The data received from island wide meteorological stations, agro meteorological stations and rain gauge stations are subjected to quality control at the Colombo headquarters and when there is any doubt related to their accuracy, are re-investigated and rectified prior to their archival. Preparation of soft copies and their archival was successfully carried out using the CLIMSOFT software.

### **2.1.3 Sale of Meteorological Data**

Past meteorological data has a very high demand especially due to changing climate conditions. Mostly undergraduates, school children and individuals who conduct various research studies, insurance establishments and construction companies request for Past meteorological data and based on the amount of data requested, they are supplied within a period of 01 to 07 days. Data with a limited financial value are provided for research studies and government institutions free of charge and they are issued as certified and non certified data.

134 weather reports and 982 data reports have been supplied to outside parties during the year 2015 and in addition, a total of 95 data reports have been issued free of charge. The department has been able to generate a revenue of Rs.4, 770, 548.50 during the year 2015 by supplying meteorological data and reports to outside parties.

### **Income generated through the sale of data - 2015.01.01 – 2015.12.31**

Branch	Amount(Rs)
Climate	180,745.00
data	296,816.00
Radar	57,454.00
Computer	3,802,832.00
National meteorological centre	452,697.50

## **2.2 Provision of meteorological data to the public, various institutions, communities relevant to various industries and world meteorological observation networks**

### **2.2.1 Information provided daily to the public**

National Meteorological Centre provides forecasts on weather conditions of the island at 05.30 am, 12.00 noon and at 04.00 pm and weather forecast on rain, wind and lightning for sea areas around the island is issued at 05.00 am and 12.00 noon through print and audio visual media.

The number of weather forecasts issued during the year under review is 1,095. In addition, 3769 weather inquiries by the media have been responded.

Weather conditions of 10 major cities of the island are released to the print, audio-visual media and to internet at 04.00 pm daily and 365 such reports have been issued throughout the year.

### **2.2.2 Information to world meteorological observation networks**

National meteorological information collected every 3 hours by the meteorological communication center at the National Meteorological Center from Offices are transmitted to the Regional Meteorological Telecommunication Hub situated in New Delhi, India to be exchanged with the regional and global meteorological community . This process continued without any interruption during the year under review.

### **2.2.3 Information provided to the communities related to various institutions and industries.**

Following additional inquiries have been responded by the National Meteorological Centre during the year 2015.

Inquiries on weather by Police, Hotels, and Mercantile establishments, inquiries on weather by fishing community, interviews on weather by Media, certified weather reports

## **2.3 Provision of Meteorological Services for Aviation and Marine Activities.**

### **2.3.1 Provision of Meteorological Services for Aviation**

Weather can impact the safety, regularity and efficiency of aviation operations. As such, aerodrome meteorological offices are maintained by the department at Katunayake, Mattala and Ratmalana airports for maintaining a continuous watch on weather conditions affecting flight operations.

### **2.3.1.1 Katunayake International Airport**

Meteorological station at Katunayake International Airport has provided the following service to flights that fly through its Flight Information Region during the year 2015:

The number of Terminal Aerodrome Forecasts (TAF), semi-hourly Meteorological Aerodrome Reports (METAR), Weather Warnings (SIGMET) and Aerodrome Warnings provided by the meteorological office at the Katunayaka Airport are 1460,8760,122 and 72 respectively. 26676 Flight Folders, 5883 Area Forecasts and 4622 Route Forecasts for domestic flights have been issued.

### **2.3.1.2 Mattala International Airport**

Details of information provided to aviation community by meteorological office at Mattala international Airport are briefly given below:

Terminal Aerodrome Forecast (TAF)	1,460
Semi-hourly Meteorological Aerodrome Reports (METAR)	8760
Special Observations (SPECI)	300

### **2.3.1.3 Ratmalana Airport**

Major task accomplished by this station is to provide meteorological information required for domestic flights operated by the Ratmalana Airport. Details of the services provided during the year 2015 are stated below:

Semi-hourly Meteorological Aerodrome Reports (METAR) 5110  
Special Observations (SPECI) 483  
Provision of Surface Pressure (QNH) 146

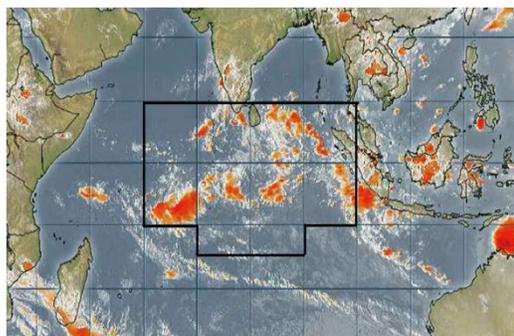
## **2.3.2 Provision of Meteorological Services for Marine Activities**

### **2.3.2.1 Meteorological condition of the sea area around Sri Lanka for marine activities (Shipping Report)**

Shipping reports on meteorological condition of the sea area around Sri Lanka are issued everyday at 10.00 am and 04.00 pm. The total number of shipping reports issued during the year was 730.

### **2.3.2.2 Meteorological report of the international sea area (Fleet Forecast)**

Fleet forecasts are issued at 06.00am and 04.30pm and contains information and forecasts on the weather, sea state and wind conditions of the international sea area given in figure below. The total number of Fleet Forecasts issued during last year was 730.



## **2.4 Dissemination of Early Warning and Information on Tsunami and hazardous weather conditions**

### **2.4.1 Early Warning Information on Tsunami**

Tsunami warnings are issued to the Public and relevant institutions in collaboration with the California Integrated Seismic Network (CISN)), Pacific Tsunami Warning Centre (PTWC), Japanese Meteorological Agency (JMA), Regional Tsunami Service Centre (RTSP) and the New Delhi Regional Office. During the year under review, no tsunami hazards occurred in the region.

### **2.4.2 Information on hazardous weather conditions**

Under conditions with possibility of heavy rains, lightning, Strong Winter's Cyclonic storms and tornados it is expeditiously informed to printed and audio-visual media and such conditions are informed to all the institutions including the district secretaries of the areas possible to be affected, Disaster Management Centre, Thi forces and police communication division, Presidential secretariat, Prime Minister's office, Ministry of Fisheries, ships through Colombo Radio, NARA regional, Master divers-coastal guard division and regional meteorological Office or to selected institutions as per the Situation through fax or email. During last year, 38 reports have been issued on hazardous weather conditions.

## 2.5 Public Awareness

### 2.5.1 Awareness Programs for General Public

Awareness generation programs, especially on meteorological hazards are conducted by the departmental staff.

#### 2.5.1.1 Visits to the Department

School children, students of higher education institutes and officers from security services regularly pay visits to the department in order to obtain knowledge related to the activities of the department.

Such groups are educated by the departmental staff by giving lectures on meteorology, meteorological hazards and climatology, in addition to conducting demonstrations on observing weather parameters. The details of the school children and other individuals who attended awareness generation programs held in the department are given below:

Number of groups of school students	300
Number of Students	31767
Number of higher education institutes	09
Number of students of higher ed. Institutes	802
Number of security force personnel	729
Others	924

#### 2.5.1.2 Awareness Programs

Awareness programs were organized at the Department of Agrarian Development and district secretariat level to generate awareness on weather, weather hazards and preparedness. Details of the awareness programs conducted during the year are given in the following table.

#### Awareness Programs Conducted

District	Location
Kurunegala	Officers of the District Agrarian Development Department/ Farmers- 427 participants
Anuradhapura	Officers of the District Agrarian Development Department/ Farmers- 200 participants
Polonnaruwa	Officers of the District Agrarian Development Department/ Farmers- 250 participants, Officers of Divisional Secretariat, Officers of other government

institutes, School Children, Teachers, farmers– 300 participants

Kegalle	Officers of the District Agrarian Development Department/ Farmers- 420 participants -Officers of District Agriculture Department institutes- 100 participants, School Children,– 200 participants
Matale	Officers of the District Agrarian Development Department/ Farmers- 500 participants
Galle	Officers of the District Agrarian Development Department/ Farmers- 300 participants

In addition awareness programmes were conducted on weather hazards, and preparedness for around 500 officers of Maradana, Mihihana and Galle Police Training Colleges.

### **2.5.1.3 Conferences/ Workshops Conducted**

#### **2.5.1.3.1 World Meteorological Day**

World Meteorological Day was commemorated with a well attended on the theme “Weather, Climate and Youth” on 23rd March 2015. School children, officials from stakeholder agencies and armed forces personnel attended this programme.

#### **2.5.1.3.2 Monsoon Forum**

The relevant institutions are summoned and explained on the possible atmospheric conditions of the monsoon period at least 02 weeks prior to the average onset date of Southwest and Northeast monsoons. In this forum, the extended seasonal forecast for the monsoon based on the numerical model outputs together with other relevant details are discussed, giving the opportunity for stakeholder agencies to prepare for weather conditions of the oncoming monsoon season.

### **2.5.2 Meteorological Instruments and Equipments**

Instruction and training required for setting up meteorological units and gathering data as well as technical advice required by various institutions when purchasing meteorological equipment was provided. Equipment required for rain gauge stations and agro meteorological stations were also provided.

#### **2.5.2.1 Instrument Branch**

Meteorological equipment at 11 meteorological stations were repaired during the year. Calibration of 09 barometers belonging to the Air Force was performed. Equipment were provided to 16 school exhibitions and the students were explained about their functions.

### **2.5.2.2 Electronic Engineering Division**

The main duty of the Electronic Engineering Division is to repair and maintain electrical and electronic meteorological equipment. In addition, the maintenance and repair of the Automatic Weather System network and the automatic Rain-gauge Network were also performed during the year successfully.

## **2.6 Research**

The following research studies were conducted in the department during the year 2015.

1. Monitoring of Monsoon Flooding in Eastern Sri Lanka
2. A comparative study on cloud radioactive forcing over Sri Lanka and Indian monsoon regions
3. The Influence of La-Nina system on Sri Lankan rainfall
4. Community based Vulnerability Identification and Mapping for Lightning Strikes in Sri Lanka
5. Study of Drought conditions of Sri Lanka using Standard Precipitation Index (SPI)
- 6 Simulation of squall type winds that approached western and southern coasts of Sri Lanka
7. WKF Simulation for Heavy Rain that occurred from 28-19 December 2014
- 8..El –Nino effect for south western monsoon in the year 2015
9. Analysis of data related to the heavy rains which occurred on 01<sup>st</sup> June 2014
10. Searching appropriate indicators for long term forecasts

## **2.7 Provision of Limited Astronomy Services**

The rise and set of sun and the moon, lighting up time, visibility of planets, appearance of the new moon, rising crescents of the moon were calculated and provided to the relevant institutions. The services of a senior officer of the department was provided for the Poya and Government Holiday Committee

## **2.8 Development functions of the Department**

### **2.8.1 Standard Operating Procedure**

Standard Operating Procedures are very important during hazard situations. Therefore, all agencies which have a role to play during hazardous weather situations agreed on the duties and responsibilities of each of the relevant institutions when communicating information on bad weather conditions and on the manner in which the communication of such information will be carried out. Accordingly, standards on the practical meanings of the technical terms used in announcements made by the department and standard operation procedures were formulated.

### **2.8.2 Training/Conferences Conducted**

Department of Meteorology organized the “Training Workshop on Information and Communication Technologies for Meteorological Services” sponsored by the Republic of Korea through Korea International Cooperation Agency and it was hosted from November 08 to November 16, 2015 in Colombo with the participation of regional countries.

## 2.9 Meetings/Trainings/Seminars and Workshops Attended

### 2.9.1. Foreign Visits (Meeting/Training/Seminar/Workshop.)

A total of 40 staff members of the Department made foreign visits to attend meetings, training programs, and conferences during 2015. (Annexure 1)

#### Foreign Visits - 2015

Serial Number	Name of the officer	Scholarship	Country	Period
01	Chandrapala,L	41 <sup>st</sup> Session of IPCC	Kenya	2015 February 24-27
		South Asian Drought monitoring System, Climate Outlook and water User Forum	Bangladesh	2015 April 20- 23
02	Weerawardena, D. J. A.	42 <sup>nd</sup> Session of ESCAP/WMO PTC & 47 <sup>th</sup> session on Tropical cyclones	Thailand	2015 February9-13
		China study tour for senior officials of the meteorological services.	China	2015 October11-22
03	Jayasekera, S. R	7 <sup>th</sup> Council Meeting of RIMES and the 2 <sup>nd</sup> Ministers Conference	India	2015 July 9-11
		Training on meteorological Satellite data usage for National meteorological and Hydrological service (NMHS) in Asia and Oceania region and meeting of the coordinating group of the RA II WIGOS project	Japan (by JMA)	2015 November 9- 14

04	Dayananda, M.D.	2 <sup>nd</sup> Meeting of Steering Committee oh INDARE	Mauritius	2015October 19- 20
		ESCAP/WMO Typhoon rowing seminar	Lao PDR	2015 November 4 -6
05	Premalal, K. H. M. S.	Severe Weather forecasting Demostration project (SWEDP)-Training WS on Sever Wx Forecasting & Warning Services	Thailand	2015 September 14 - 25
06	Karunanayaka,A.K.	6 <sup>th</sup> session of the SASCOF & Forum for water sector in south –Asia	Bangladesh	2015 April 19 - 23
07	Jayasinghearachchi,D.A	Training on Seasonal forecast Customization system for the technical staff of Department of Meteorology- sri lanka,	Thailand, Bangkok (By RIMES)	2015 August 24 - September 05
08	Warnasooriya, A.R.	Target Training Activity (ICTP - MOES-IITM Punei)	Pune, India	2015 February 09 - 20
		Information & communication technologies for Meteorological Services,	Korea (KOICA)	2015 October 18 November 07
09	Wijemannage J.L.K.	Seminar on Management for Meteorological Officials from Asia-Pacific Countries	Nanjing China	2015June 11 - July 01
		Capacity Bldg WS on Data Rescue	Tanzania	2015 November 9-14
10	Jayawardena I.M.S.P.	Win SASCOF -1 meeting to be held in	India	2015 October 14 -15
11	Sujeewa, K.D.	Severe Weather forecasting Demostration Project (SWEDP)Training WS on Server Wx F/Cing & Warning services one week Pws training	Thailand	2015 September 14 - 25

12	Fernando,D.G.	International Training Workshop on Tropical Cyclone Forecasting SMRC,Delhi	India	2015 August 3- 14
13	Peris, T.M.N.	3 <sup>rd</sup> WMO/WWRP Monsoon Heavy Rainfall Workshop	India	2015September 22 – 24
14	Mendis,M.M.P	International Training Workshop on Tropical Cyclone Forecasting SMRC,Delhi	India	2015 August 03- 14
15	G.H.C. De Silva	JICA-Reinforcement of Meteorological Services – 3 months Course	Japan	2015 September 15- December13
16	J.W.Karunaratne.	M.Sc in Meteorology	Philippines	2015-2017 January 08
17	Rodrigoo A.C.M.	Information and Communication technologies for Meteorological services,	Korea	2015 October.18 - November. 07
		Tokyo Climate Center (TTC) Training Seminar on One – Month forecast	Japan	2015 November 16-20
18	Karunapala,P.	M.Sc in Meteorology	China	2015-2017 September.
		Information and Communication technologies for Meteorological services	Korea	2015 October.18 - November 07

19	Nuwan Kumarasinghe	Inter MET Asia 2015 Global Facility for Disaster Reduction & Recovery Hosted Delegate programme	Singapore	2015 April 22-24
		Meeting for Consultations on the Trust fund Project for the installation of a Doppler Radar	Switzerland	2015 June 01 – 03
		International Symposium titled Strategic interventions to mitigate the Hazards of Lightning	Zimbabwe	2015 November 11-13
20	Kelum Priyadarshana	International Training Course on Weather radar Operation & Data utilization	Korea	2015 May 10-23
21	Dharmapriya, H.A.G.	Seminar on Management for Meteorological Officials from Asia-Pacific Countries	Nanjing China	2015 June 11, July 01
22	Malith Fernando	Information And Communication Technologies for Meteorological Services,	Korea (KOICA)	2015 October 18- November 07
23	Darshika D.W.P.T.	TCC Training on Projection Information of Global Warming	Japan	2015 January 26- 30
24	Herath, H.M.R.C.	Training on Coordinated Regional Downscaling Experiment (CORDEX)	China	2015 November- 26
25	Maheepala, T.B.	Seminar on Management for Meteorological Officials from Asia-Pacific Countries	Nanjing, China	2015 June 11, July 1
26	Samarasuuriya, S.K.J.	Seminar on Management for Meteorological Officials from Asia-Pacific Countries	Nanjing, China	2015 June 11, July 01
27	Abeyasinghe, I.S.M.	Seminar on Management for Meteorological Officials from Asia-Pacific Countries	Nanjing, China	2015 June 11 – July 01

28	Samarasekara,A.I.	Preliminary Meteorology Course	Karachchi, Pakistan	2015 June12 October.16
29	Senewirathne, M.L.R.	Preliminary Meteorology Course	Karachchi, Pakistan	2015 June 12 October16
30	Senewirathne, B.G.	Preliminary Meteorology Course	Karachchi, Pakistan	2015 June 12 October16
31	Ashoka Premarathne, P.G.	International Workshop for the Meteorological Offices related to the Harbour.	Chilly	2015 July2 -24
32	Wijenayake, G.S.	Summit on the management of meteorological hazards and meteorological information services for the developing countries.	China (CMA)	2015September 10- 30
33	Priyadarshani,E.S.	Summit on the management of meteorological hazards and meteorological information services for the developing countries.	China (CMA)	2015September 10- 30
34	Herath,H.M.S.P.	Seminar on Meteorological Disaster Mngt and Wx information Services for Developing contries	China (CMA)	2015September 10- 30
35	Wasantha Kumara. S	Summit on the management of meteorological hazards and meteorological information services for the developing countries.	China (CMA)	2015 September 10- 30
36	Ekanayake, U.G.	Summit on the management of meteorological hazards and meteorological information services for the developing countries.	China(CMA )	2015 September 30
37	Ekanayake,E.A.I.B.	Course on Instrument maintenance and Calibration, RA II countries	Nanjin China	2015November 2 - 27

## 2.9.2. Local Trainings

During the year, 48 staff members of the department received trainings at various institutions/agencies. In addition, “Continuous Education and Training (CET)” program was also conducted with the participation of 78 Sri Lanka Technological Service officers 78 of the Department. Further, 08 meteorologists and 05 research assistants participated in the training programmes.

### Continuous Education and Training (CET) Program

The following four programmes were conducted during the year 2015 for the meteorological officers under the Continuous Education and Training (CET) Program

1. Preliminary Course for Statistical meteorological forecasts
2. Analysis of climatic data
3. Training on Meteorological equipment
4. Advanced Course on Agro meteorology

In addition to the meteorological officers , meteorologists and research assistants were made to participate in the higher course on Agro meteorology. Accordingly, the officers trained of these 4 programmes are as follows.

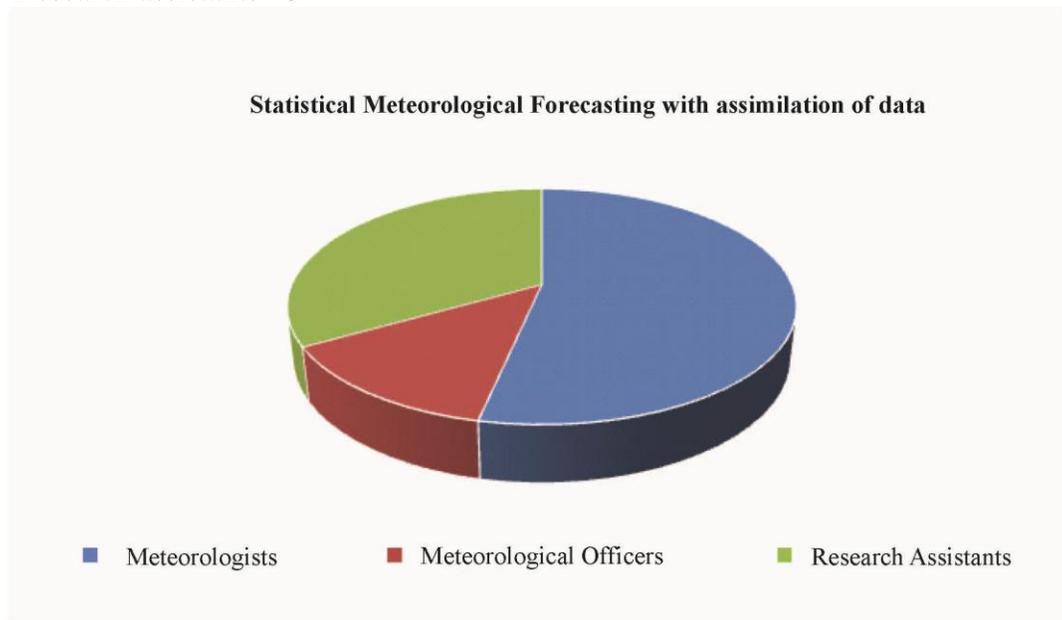


Under this Continuous Education and Training (CET) Program, 03 special programmes were conducted in the year 2015 and each programme was financially sponsored by the United Nations Development Programme . (UNDP)

1. Numerical weather prediction and Data Assimilation
2. Long term weather Forecasting
3. Climatic Predictions

The first programme was financially sponsored by the United Nations Development Programme and two resource persons participated from the SAARC Meteorological Research Centre, (CMRC )Bangladesh. The following number of officers participated in this programme.

1. Meteorologists - 8
2. Meteorological officers- 2
3. Research assistants - 5



Ten Meteorologists and four Research Assistants participated in the Course on Long term Weather Forecasting and the resource Person from IRI, USA attended the Programme and the World Meteorological Organization funded the Programme .

Fifteen Meteorologists participated in the Course on Climatic predictions and 02 attended the programme resource persons from Japanese Meteorological Agency. JMA funded The Programme.

### **3. Performance of Administration and Finance Divisions**

#### **3.1 Administration Division**

Approved cadre and the actual staff in the department were 460 and 370 respectively as of 31st December 2015.

Twenty seven (27 ) vacancies for the post of Meteorological Officer/ Observer / Communicator, seventeen (17) vacancies for the post of Senior Meteorological Officer, sixteen (16) vacancies for the post of Meteorological Helper, existed at the end of the year 2015.

##### **3.1.1 Recruitment/Filling of Vacancies**

Following vacancies were filled during the year 2015:

Meteorologist (Sri Lanka Scientific Service)	11
Public Management Assistants	13
Carpenter	01

##### **3.1.2 Retirements, Resignations, Releases, Vacation of Post and Deaths**

07 retirements and 01 Resignations of officers who served in various positions of the Department during the year 2015.

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##### **3.1.3 Reinstatement of Retired Officers**

08 Meteorological Officers, who retired within the last 5 years, were reinstated on contract basis in the year 2015 with the approval of the Public Service Commission due to shortage of staff.

##### **3.1.4 Relevant efficiency bar examinations and Departmental Examinations**

First and second departmental examinations for the officers in the Sri Lanka Scientific Service and Sri Lanka Technological Service, and first, and third efficiency bar examinations for the post of Meteorological Helpers were conducted and relevant results were issued during the year 2015 in coordination with the Internal . Examination Division of the Department.

##### **3.1.5 Constructions**

The construction of the quarters for the circuit bungalow caretaker in Nuwara Eliya was completed and handed over to the caretaker .The construction of the meteorological office in Trincomalee and the balloon room were completed.

The building of the headquarters was colour- washed and refurbished and the National Meteorological Centre was partitioned and renovated.

### 3.2 Finance Division

#### 3.2.1 Income

#### Actual against forecast in case of Revenue Accounts 2015

Head: 304

Programme: 02

Project: 01

Revenue Code	Revenue Item Description	Revenue 2015		Description
		Estimate (Rs.)	Actual (Rs.)	
20.02.01.01	- Rent on government buildings as return on Government Assets	550,000	432,202	Rent on DG quarters and OIC quarters (Outstations)
20.02.01.99	Return on Government Assets Rent - Other rental	12,600	12,600	Vehicle charges - DG and 02 Directors.
20.02.02.99	Interest - Other	1,500,000	1,214,036	Interest on Public Officer's Advance 'B' Account
20.03.02.99	Sales Proceeds and Charges - Administration fees and charges-miscellaneous	6,000,000	5151212	From issuing data and reports for various sectors eg: Contractors, Universities and etc.
20.03.99.00	Sales Proceeds and Charges - Other receipts	600,000	846,372	From school visits, issuing reports to schools, Tender registration fees lectures & workshops, hiring Auditorium, sale of books and charges of Nuwara Eliya Circuit Bungalow.
<b>Total</b>	<b>8,662,600</b>		<b>7,656,422</b>	

### 3.2.2 Expenditure

#### Recurrent Expenditure (Rs.) against provisions 2015

Department Of Meteorology

Head: 304

Programme: 02

Project Number:01

Category	Project : 01		%	Description
	Provision Rs.	cost Rs.		
Personal Emoluments	186,388,000	185,645,921	100	Salaries & Wages, Overtime & Holiday Payment and Other Allowances.
<b>Other recurrent</b>	<b>68,792,000</b>	<b>62,887,040</b>	<b>91</b>	
Travel expenses	2,000,000	1,229,284	61	Domestic travelling Foreign meetings & conferences
Supplies	0,895,186	10,809,039	99	Purchasing Met Balloons, Radiosondes & Sunshine cards, stationery & office requisites, fuel, diets and uniforms.
Maintenance Expenditure	13,283,437	11,065,411	83	Maintenance charges for vehicles, plant machinery & equipment and buildings.
Services	34,220,593	31,548,425	92	For transport, postal and communication, electricity & water, rents and local taxes, security & janitorial services and other services.
Transfers	8,363,341	8,205,475	98	Contribution fees for world Meteorological Organisation and other foreign Organisation and property loan interest for public servants.
Other recurrent expenditure	29,407	29,407	100	Losses and cuts
Total cost	255,180,000	248,532,961		

**2015 –Provisions-Capital Expenditure ( Rs.)**

**Department of Meteorology**

**Head: 304**

**Programme : 02**

**Project :01**

Vote Code	Vote description	2015 Net allocation RS. :	2015 Expenditure Rs. :	%	Description
<b>Project 01</b>	<b>TOTAL (PROJECT 01)</b>	<b>348,000,000</b>	<b>111,531,151</b>	<b>32</b>	
	<b>Meteorological Services</b>				
	<b>Total</b>	<b>348,000,000</b>	<b>111,531,151</b>	<b>32</b>	
	<b>Rehabilitation and Improvements</b>	<b>8,150,000</b>	<b>7,987,223</b>	<b>98</b>	
2001	Buildings and Structures	8,150,000	7,987,223	98	Development of the Head quarters Building. 6.39 million rupees. Renovation activities of Meteorological offices in Vavuniya, Nuwaraeliya and Puttalam.
	<b>Acquisition of Fixed Assets</b>	<b>32,000,000</b>	<b>27,762,319</b>	<b>87</b>	
2102	Furniture & office Equipments	8,900,000	8,899,958	100	Meteorological Equipment
2103	Machinery	14,000,000	12,445,603	89	New Constructions of the Trincomalee Meteorological Office
2104	Building and Structures	8,600,000	5,926,415	69	
2105	Land and Land improvements	500,000	490,344	98	Building a protective fence for the meteorological office in Mannar.

	<b>Capacity</b>	<b>4,350,000</b>	<b>4,184,781</b>	<b>96</b>	
2401	Staff training	4,353,000	4,184,781	96	Local and foreign training for staff officers and technical and non technical officers
	<b>Other capital expenditure</b>	<b>303,500,000</b>	<b>71,596,827</b>	<b>24</b>	
2502	investments	303,500,000	71,596,827	24	For Awareness Programmes - 964,700 Development of Automatic Meteorological System Rs.. 10,767,604 Meteorological observations, Forecasts and dissemination Rs. - Rs.. 59,864,523

**Summary of Advance Account - 2015**

Head - 304

Programme – 02

Project Number 01

Item	2015 Estimated Rs:	2015 Actual Rs. :
<b>Advance account of Public Officers</b>		
Maximum limit of Expenditure	12,695,000	11,498,951
Minimum limits of Receipts	7,695,000	10,372,207
Credit balance ceiling	55,000,000	31,700,892

#### **4. Acknowledgements**

I wish to place on record my gratitude to all governmental and non-governmental organizations and individuals who extended their support the Department in various projects, programs and meetings. My thanks are also due to the media for readily conveying the weather information to the general public. Finally I wish to express my personal gratitude to all employees of the Department for their ready cooperation and their loyal service.