Correlation of MEWS Handbook to PDF Lessons

Section					Page
MEWS Lesson Directory					iv-v
	Access to MEWS Lessons on the Web				
	Introduction OA & OB			k OB	1-2
		Form: MEWS Observation	Log		3 4-5
	1.0 Header / Location				
1.1	Latitude / Longitude			_	5-6
1.2	Elevation	oc		6-7	
1.3	Date / Time (h			8	
1.4	Observer				
	0 Temperature Basic 1				
2.1	Air (Dry Bulb) Temp			0.40	
2.2	Wet Bulb Tem	p	Adv 1		9-10
2.3	Difference				10
2.4	Relative Humidity				10-12 11
	Chart: Relative Humidity Table				
2.5	Dew Point Ter	•	- Table	Adv 3	12
	Heat Chase T	Chart: Dew Point Temperature	e rabie	A also 4	13
2.6	Heat Stress To	•	lb o ut	Adv 1	14
	Mind Chill Tox	Chart: Heat Stress Index C	nart	A du O	16
2.7	Wind Chill Temp			Adv 2	15 16
2.0 \\/:	3.0 Wind Speed and Direction				
3.0 Willi	Speed and Di	1	Basic 2	Adv 2	17
	Wind speed	Average Gusts		AUV Z	17
3.1		Chart: Modified Beaufort Wind Chart		18	
		Chart: Noullied Beautort Wind Chart Chart: Dwyer Wind Gauge Conversion Chart			19
	Wind	Steady	Basic 3	i Onart	20-21
3.2	direction	Variable			
4.0	Sky Condition				
7.0	Cloud Cover	Basic 4		22	
4.1	Cloud Cover Chart Chart: Cloud Cover Chart				
4.2	Cloud Base He		Basic 5	Adv 3	
4.2.1		Cloud Type or Relative to Local		710.70	23
	Cloud Base Height Calculated by Dew Point				
4.2.2	Temperature Adv 3			Adv 3	23-24
	Cloud Type Basic 6				24
4.3	Chart: Cloud Identification Chart				25
4.4				Adv 4	26-27
4.5	Visual Range Basic 7				28-29
	Severe Weather Basic 8 Adv 5				29-30
4.6	Chart: "Flash to Boom" Reference Chart				
App 1	Weather Observation Equipment			31	
App 2	Weather Forecasting Basic 6 Adv 6			32-35	
App 3		Conversion References			36
App 4	Notes on Supporting Flight Operations			37	

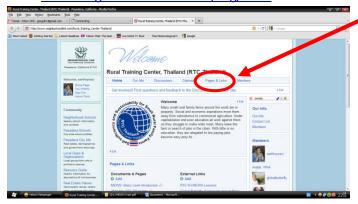
Mobile Emergency Weather Station (MEWS) Lesson Directory
The MEWS directory lists the MEWS lessons in the suggested sequence. Instructions to access the lessons is found at the end of this paper. Some of the files are large. So please be patient as the download time may vary depending on the speed of your connection.

be pa	be patient as the download time may vary depending on the speed of your connection.						
	MEWS Orientation Presentations						
OA	MEWS Introduction	Overview of MEWS					
ОВ	Observer orientation	Orientation for MEWS observers					
ОС	Log Form orientation	Step-by-step orientation of the MEWS Log Form					
Basic MEWS Lessons							
MEWS Basic Level Introduction							
B1	Measuring Temperature	Temperature measurement (in the shade) of the local area Required Equipment: thermometer Optional Equipment: Umbrella, long measuring tape, short measuring tape, ruler					
B2	Estimating Wind Speed	Systematic environmental observation of wind effects in the local area. Required Equipment: Modified Beaufort Wind Chart (in Handbook) Optional Equipment: Flag, long measuring tape, short measuring tape, ruler					
В3	Measuring Wind Direction	Systematic measurement of wind azimuth in the local area. Required: Magnetic compass Optional Equipment: Flag, long measuring tape, short measuring tape, ruler					
B4	Estimating Cloud Cover	Systematic observation of sky conditions over the local area. Required Equipment: Cloud Cover chart / terms (in Handbook) Optional Equipment					
B5	Estimating Cloud Base Height	Systematic observation of clouds relative to the height of a local mountain or estimated based on cloud type. Required Equipment: Local topographic map (get online or purchase); Cloud ID chart (in Handbook) Optional Equipment: Binoculars					
В6	Identifying Cloud Types	Systematic observation and identification of clouds in the local area. Required Equipment: Cloud ID chart (in Handbook) Optional Equipment: Binoculars					
В7	Estimating Visual Range	Systematic observation of key local landscape features / landmarks relative to operating position or helicopter Landing Zone Required Equipment: Local topographic map (get online or purchase), ruler Optional Equipment: Binoculars					
В8	Severe Weather Conditions	Systematic observation of local area storms Required Equipment: Instructions on "Flash to Boom" (on MEWS Log and in Handbook) Optional Equipment: Binoculars					

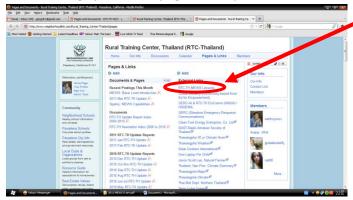
Advanced MEWS Lessons						
MEWS Advanced Level Introduction						
A1	Relative Humidity and Heat Stress	Systematic measurement / calculation of relative humidity in the local area. Required Equipment: Hygrometer (buy or instructions to make your own); psychometric table and Heat Stress Index table (in Handbook) Optional Equipment: calculator, long measuring tape, short measuring tape, ruler; buy a digital thermometer with RH function or buy a hygrometer or digital weather station.				
A2	Wind Speed and Wind-chill	Systematic measurement of wind speed and calculation of Windchill in the local area. Required Equipment: wind speed gauge/meter (by or instructions to make your own); Wind-chill table (in Handbook) Optional Equipment: long measuring tape, short measuring tape, ruler; buy digital anemometer with wind-chill function or digital weather station				
A3	Dew Point and Cloud Base Height	Determining Dew Point Temperature and calculating the height of the cloud base in the local area Required Equipment: Dew Point table (in Handbook); Optional Equipment: calculator; buy a digital thermometer with Heat Stress function or a digital weather station.				
A4	Rainfall	Systematic measurement of rainfall (in 24 hour period) in the local area. Required Equipment: rain gauge (buy or instructions to make your own) Optional Equipment: Buy a digital rain gauge or a digital weather station with a rain gauge.				
A5	Severe Weather	Systematic observation of local area storms and use of lightning detector. Required Equipment: lightning detector (buy) Optional Equipment: Digital weather station.				
A6	Weather Forecasting	Systematic observation of changes in cloud types, atmospheric pressure, and wind direction. Required Equipment: Cloud ID chart (in Handbook), barometer or barometric altimeter, magnetic compass.				

To access the MEWS Lessons:

Go to www.neighborhoodlink.com/org/rtcth and click on "Pages & Links"



...which brings you to this page where you click on "RTC-TH MEWS Lessons"



...which will bring you to this page, where you scroll down the left column and watch for the Section Heading "RTC-TH EmComm / EmPrep / GERC-AI)



...where you will find the MEWS lesson listed in the suggested sequence of study.

