

Day Topics were Covered

(out of 25 days)

Schedule:

Part 1

Part 2

Part 3

Topic:

| | | | | | | | | | | | | |
|----------|-------------|---------------|-----------|------------|---------------|-----------|--------------|-----------|-----------|-------------|-------------|--------------|
| A. intro | B. wildfire | C. High-Level | D. Exam 1 | E. Kimiwan | F. SparksLake | G. Ft.Mac | H. Camp Fire | I. Exam 2 | J. Quebec | K. Marshall | L. Capstone | M. FinalExam |
| A | B | C | D | E | F | G | H | I | J | K | L | M |

Fire Basics

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|------|--------------------------------|---|---|----|---|--|--|--|--|--|--|--|
| fb0 | Glossary | | | | | | | | | | | |
| fb1 | History of fires | 1 | | X | | | | | | | | |
| fb2 | Wildfire Triangles | | 1 | X | | | | | | | | |
| fb3 | Fire Ranks | | 1 | X | | | | | | | | |
| fb4 | Forest types & layers | | 3 | X | | | | | | | | |
| fb5 | Danger ratings worldwide | | 3 | X | | | | | | | | |
| fb6 | Fuel characteristics | | 3 | X | | | | | | | | |
| fb7 | Ignition & lightning | | | | | | | | | | | |
| fb8 | Fuel moisture content | | 3 | X | | | | | | | | |
| fb9 | Precursor / antecedent cond. | | | | | | | | | | | |
| fb10 | FWI -overview | | 3 | X | | | | | | | | |
| fb11 | FWI Moist.codes: FPMC, DMC, DC | | 3 | 10 | X | | | | | | | |
| fb12 | Variables: wx, slope | | | | | | | | | | | |
| fb13 | Variables: sunlight, aspect | | | | | | | | | | | |
| fb14 | FWI indices: BUI & ISI | | 8 | X | | | | | | | | |
| fb15 | FWI indices: FWI & DSR | | | | | | | | | | | |
| fb16 | Hot-dry-windy index | | | | | | | | | | | |
| fb17 | FBP: intro | | | | | | | | | | | |
| fb18 | FBP: fuel types | | 3 | | X | | | | | | | |
| fb19 | FBP: ROS | | | | | | | | | | | |
| fb20 | FBP: HFI | | | | | | | | | | | |
| fb21 | FBP: Significance | | | | | | | | | | | |
| fb22 | Fire heat budget | | | | | | | | | | | |
| fb23 | FIRMS | | | | | | | | | | | |
| fb24 | GWIS | | 8 | X | | | | | | | | |
| fb25 | FireWeather.ca | | 8 | X | | | | | | | | |
| fb26 | Spring Dip | | 8 | X | | | | | | | | |

Meteorological Concepts

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|---------|----------------------------------|--|--------|------|---|--|--|--|--|--|--|--|
| mc01.1 | Map Analysis - Intro | | 2 | | X | | | | | | | |
| mc01.2 | Upper-air maps (a) & (b) | | 2,4 | | X | | | | | | | |
| mc01.3 | Surface Maps | | | 8,10 | X | | | | | | | |
| mc01.4 | Feature identification | | | | | | | | | | | |
| mc02.1 | Annotated Weather Maps | | 8 | X | | | | | | | | |
| mc02.2 | Station plot models | | | | | | | | | | | |
| mc03.1 | Satellite Image Interp.-RAMBB | | | | | | | | | | | |
| mc03.2 | Worldview (a), (b), (c) | | 6,8,10 | X | | | | | | | | |
| mc03.3 | Multispectral RGB displays | | | | | | | | | | | |
| mc04.1 | Mid-Latitude Cyclones - Intro | | 4 | | X | | | | | | | |
| mc04.2 | Cyclolysis & ABL Drag | | 5 | | X | | | | | | | |
| mc04.3 | Cyclogen.1 - Diverg aloft | | 5 | | X | | | | | | | |
| mc04.4 | Cyclogen.2 - Rossby waves | | 5 | 7 | X | | | | | | | |
| mc04.5 | Cyclogen.3 - Tilting/stacking | | | 7 | X | | | | | | | |
| mc04.6 | Cyclogen.4 - Jet streaks | | | 7 | X | | | | | | | |
| mc04.7 | Cyclogen.5 - Mountain lee | | | 7,9 | X | | | | | | | |
| mc04.8 | Cyclogen.6 - Thermodyn. | | | | | | | | | | | |
| mc04.9 | Cyclogen.7 - Big picture | | | | | | | | | | | |
| mc04.10 | Quasi-Geostrophic (QG) Theory | | 9 | X | | | | | | | | |
| mc05.1 | Fronts - Intro & types | | | | | | | | | | | |
| mc05.2 | Sfc.fronts-horiz.& vert.struct | | | | | | | | | | | |
| mc05.3 | Geostrophic adjustment | | | | | | | | | | | |
| mc05.4 | Frontogenesis | | | | | | | | | | | |
| mc05.5 | Mid & Upper troposphere fronts | | | | | | | | | | | |
| mc05.6 | Misc.-dry lines, sting, bentback | | | | | | | | | | | |
| mc06.1 | Humidity - Fundamentals | | 10 | X | | | | | | | | |
| mc06.2 | Temperature variables, theta | | 9 | X | | | | | | | | |
| mc06.3 | Clouds - Cu, St, prairie slope | | | | | | | | | | | |
| mc07.1 | Soundings - Mand.& sig. levels | | | | | | | | | | | |
| mc07.2 | Plotting: tephigrams/skew-T | | | | | | | | | | | |
| mc07.3 | Feature ID: ABL Zi, tropopause | | | | | | | | | | | |
| mc07.4 | Stability - static, dyn., turb. | | | | | | | | | | | |
| mc07.5 | Convection -CAPE, CIN, indices | | | | | | | | | | | |
| mc08.1 | Weather Briefings - Tips | | | | | | | | | | | |
| mc08.2 | Example 1 - McLoughlin | | | | | | | | | | | |
| mc08.3 | Example 2 - Bennett | | | | | | | | | | | |
| mc09.1 | NWP - Overview | | | | | | | | | | | |
| mc09.2 | Models | | | | | | | | | | | |
| mc09.3 | Ensemble forecasting | | | | | | | | | | | |
| mc09.4 | Data assimilation | | | | | | | | | | | |
| mc10.1 | NWP-Fire Behavior Models -Intro | | | | | | | | | | | |
| mc10.2 | WRF-SFIRE | | | | | | | | | | | |
| mc10.3 | xxx | | | | | | | | | | | |
| mc11.1 | Fire Wx Fcsting - Tactical | | | | | | | | | | | |
| mc11.2 | Strategic | | | | | | | | | | | |
| mc11.3 | Sub-seasonal & seasonal | | | | | | | | | | | |

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