T. General:

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The transition from the northeast monsoon season to the wouthwest monsoon, which began in March is completed in May. The air of the southwest monsoon originates in part as a warm, dry, stable air mass over Australia & merges with tropical air as it moves northward over the Indian Ocean. During passages over warm tropical vaters, the air mass is rapidly modified by the addition of heat and moisture. It arrives over the area as a very moist, unstable tropical air mass which produces extensive convective clouds, heavy rainshowers and thunderstroms over most of the area, especially on the windward side of the mountain slopes. During the southwest monsoon, the lift (air blowing up the side of a mountain) provided by these mountains augments the process of convective instability (unstable air implies rainshowers/thunderstorms) to produce much cloudiness and heavy rainshower activity on the westward windward slopes as a direct result of topagraphy.

Small changes in location can cause large changes in the observed weather. Surges do occur in the southwest monsoon which causes an increase in the recorded surface winds. Wind gusts to 20 knots are common and gusts will occasionally exceed 30 knots. Large local variation in wind direction and speed will occur in more mountainous terrain, due to the channelling effect of valleys and ridges.

2. Precipitation:

May is a wet season month. Rainfall increases everywhere and is primarily afternoon and evening rainshowers and thunderstorms. The principle factor influencing the amounts of precipitation is exposure to the moist wind flow. Higher elevations receive more precipitation.

Precipitation can be expected on 10-15 days/month for the following totals:

Monthly mean - 9"

Monthly max - 20"

Monthly min - 2.8"

24 Hr Max - 4"

3. Cleudiness:

Cloud amounts continue to increase in May. Convective clouds with bases 3,001 form during the day, late morning and afternoon ceilings are common. During May, skies are cloudy 65% of the time and the table below describes the type of cloudiness that makes up the total.

(May Climotology, Froposed AO) to Anx A (Intel) to OPORD 16-70 (U)

TIME (local)	CONDITIONS	MEAN NUMBER OF DAYS/MONTH
0700	(No ceilings below 10,000 feet and visibility greater than five miles)	11
1000		10
1300		5
1600	n e	7
1900		15
All hours	(Days total cloud cover less than 30% - no ceiling)	5
All hours	(Days total cloud cover forms a ceiling at some time during the da	y) _ 23

Generally, ceilings will be 3,000 feet above ground level except during surges and afternoon rainshowers/thunderstorms.

4. Visibility:

No significant improvement in the visibility occurs in May. Although the smoke and haze is decreasing, the increase in convective cloudiness decreases the slant range visibility for aircraft and rainshowers/thunderstorms will lower the visibility to 1-3 miles in local areas. Occurance of fog is decreasing with an average of one fog day per month.

5. Thunderstorms:

A thunderstorm day is defined as a day on which thunder is heard at the location. Precipitation does not have to occur. The statement "an average of one to two thunderstorms days" means that any specific location in that area averages one to two days per month with thunderstorms. The area in concern has 12 thunderstorm days per month during May. The duration of individual thunderstorms is one hour, however, continuous thunderstorm activity at any station often lasts longer than one hour due to development of additional thunderstorm cells. Typical thunderstorm weather observations are as follows:

1000 SCID, 2000 ERKN, VSBY 2 Miles in thunderstorms (implies heavy rain), winds VRBL at 15 gust to 35 knots.

In more severe thunderstorms gusts can be as high as 50 knots. Generally, hail does not reach the surface from tropical thunderstorms, but can be found above and near the freezing level which is at 14,000 feet during May. Tornadoes occur rarely with tropical thunderstorms and do not pose a serious threat in Vietnam.

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6. Temperatures:

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At these locations, temperatures for the monthly averages indicate cooler weather due to the gradual increase in the amount of cloudiness during the month.

Extreme maximum		100	(Fo)
Mean maximum		90	
Mean minimum	-	70	
Extreme minimum		62	

7. Relative Humidity:

The mean relative humidity for all hours of every day is 88%. A diurnal cycle does occur where the morning relative humidities often exceed 95% with the lowest humidity (70-75%) occurring in the afternoon.

WINDS:	DIRECTION	SPEED	SPEED (SURGE)
SURFACE 2000 Feet (Above Mean Sea Level) 5000 Feet " 10,000 Feet " 20,000 Feet "	SW	8	25 knots
	SW	8	20-25 knots
	W	10	20-30 knots
	WSW	7	no data
	S	5	no data

During the surges, wind directions and speeds will vary considerably due to the channeling effect of mountain ridges and valleys. Occasionally, winds warnings will be issued for high gusts and turbulence.

LICHT DATA FOR MAY 1970

					ALCOHOL MESSA	waster with	No.	
DAY	EMNT	SB	38	EENT	MB	MS	PHASE	PII
1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16 17 18 19 20 21 22 23 24 5 26 27 28 29 30 31	0604 0603 0603 0603 0602 0601 0601 0601 0600 0600 0559 0559 0559 0558 0558 0558 0557 0557 0557 0557 0557	0626 0625 0625 0625 0624 0623 0623 0623 0623 0622 0622 0621 0621 0621 0621 0621 0620 0620	1904 1904 1904 1905 1905 1905 1905 1906 1906 1906 1906 1907 1907 1907 1907 1907 1908 1908 1908 1908 1909 1909 1910 1910	1926 1927 1927 1927 1927 1927 1927 1928 1928 1929 1929 1929 1929 1930 1930 1930 1931 1931 1931 1932 1932 1932 1933 1933	0306 0348 0427 0508 0550 0635 0635 0817 0911 1006 1100 1152 1242 1329 1416 1503 1551 1641 1735 1832 1934 2037 2140 2239 2333 0021 0105 0146 0305	1512 1608 1703 1800 1857 1955 1955 2152 2245 2334 0019 0100 0137 0211 0245 0219 0354 0433 0515 0604 0658 0758 0903 1007 1110 1211 1308 1403 1457 1552	LAST QTR	25 16 08 03 01 00 02 06 12 19 28 37 46 55 65 74 82 89 94 95 90 81 72 61 49 82 83 84 84 84 84 84 84 84 84 84 84 84 84 84

LEGEND:

EMINT: BEGINNING MORNING NAUTICAL TWILIGHT

SR: SUNRISE SS: SUNSET

EENT: END EVENING NAUTICAL TWILIGHT

ME: MOONRISE MS: MOONSET

PHASE: PHASE OF MOON IN QUARTERS PMI: PERCENT MOON ILLUMINATION