

AVN MOS UPDATE

- ▶ **Status**
- ▶ **Visibility/Obstruction to Vision Verifications**
- ▶ **Precipitation Characteristics Verifications**

Paul Dallavalle - Meteorological Development Laboratory
CAFTI Presentation - January 24, 2001

AVN MOS MESSAGE

Schedule

- May 2000 - Temp., Dew Pt., Wind
- July 2000 - Clouds, Ceiling Ht.
- Sept. 2000 - PoP, P. Type, Tstm., Svr. Wx.
- Oct. 2000 - Visibility, Obvis.
- April 2001 - QPF
- Oct. 2001 - Snowfall

AVN MOS PREDICTANDS

VIS.

≤ 1/4 mi.

> 1/4 - 1/2 mi.

> 1/2 - < 1 mi.

1 - < 3 mi.

3 - 5 mi.

6 mi.

> 6 mi.

OBVIS.

None

Haze

Mist (BR)

Fog (FG)

Bl. Snow, sand

PRECIP. CHAR.

Drizzle

Steady

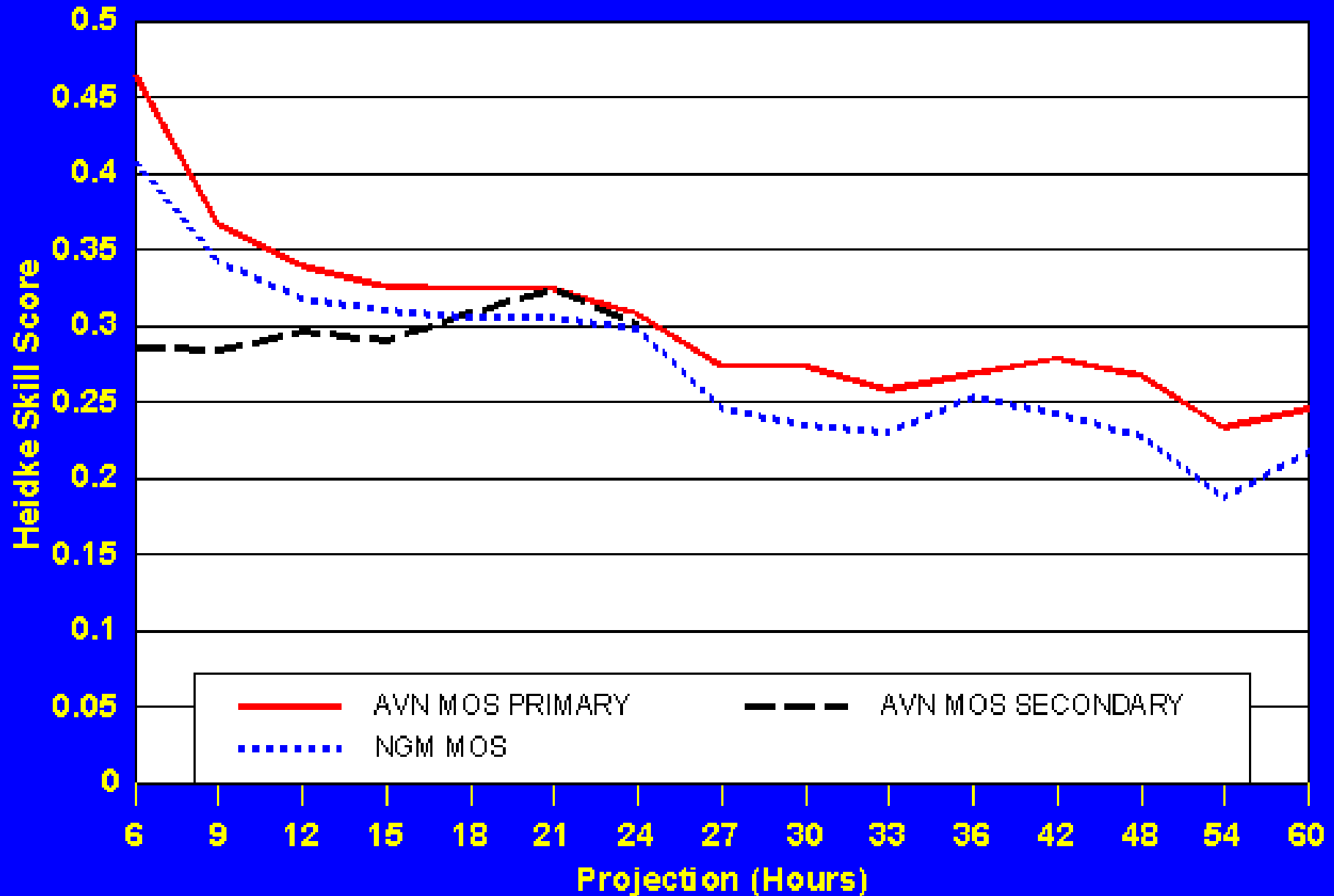
Showers

AVN MOS VERIFICATIONS

Independent Sample

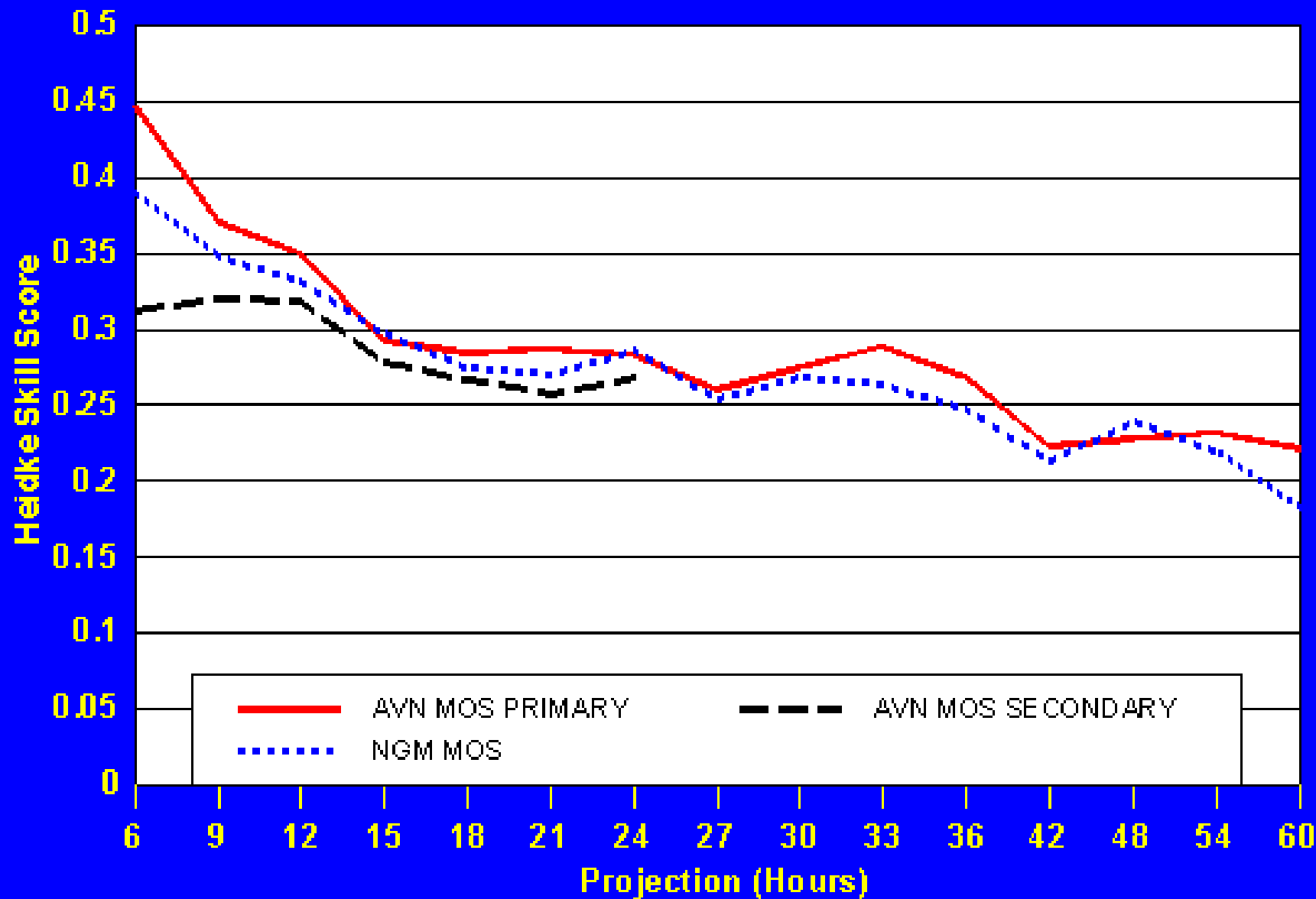
- Comparisons with NGM MOS - approximately 330 stations
- Comparisons with persistence - approximately 900 stations
- Cool and warm season verifications - approximately 180 days for each season

Visibility Conus and Alaska 00Z Cycle



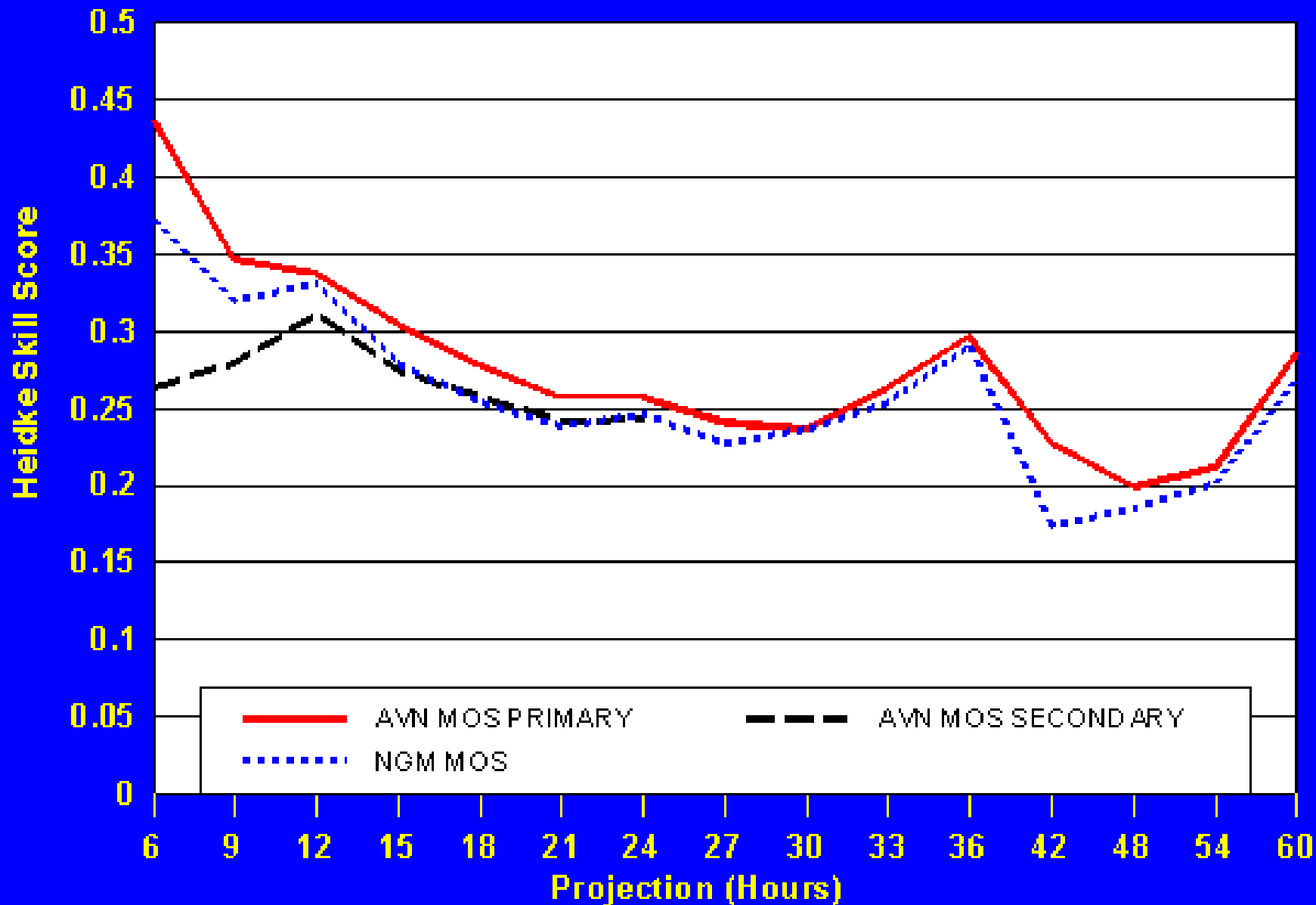
(Independent data 1999-2000 cool season)

Visibility Conus and Alaska 12Z Cycle



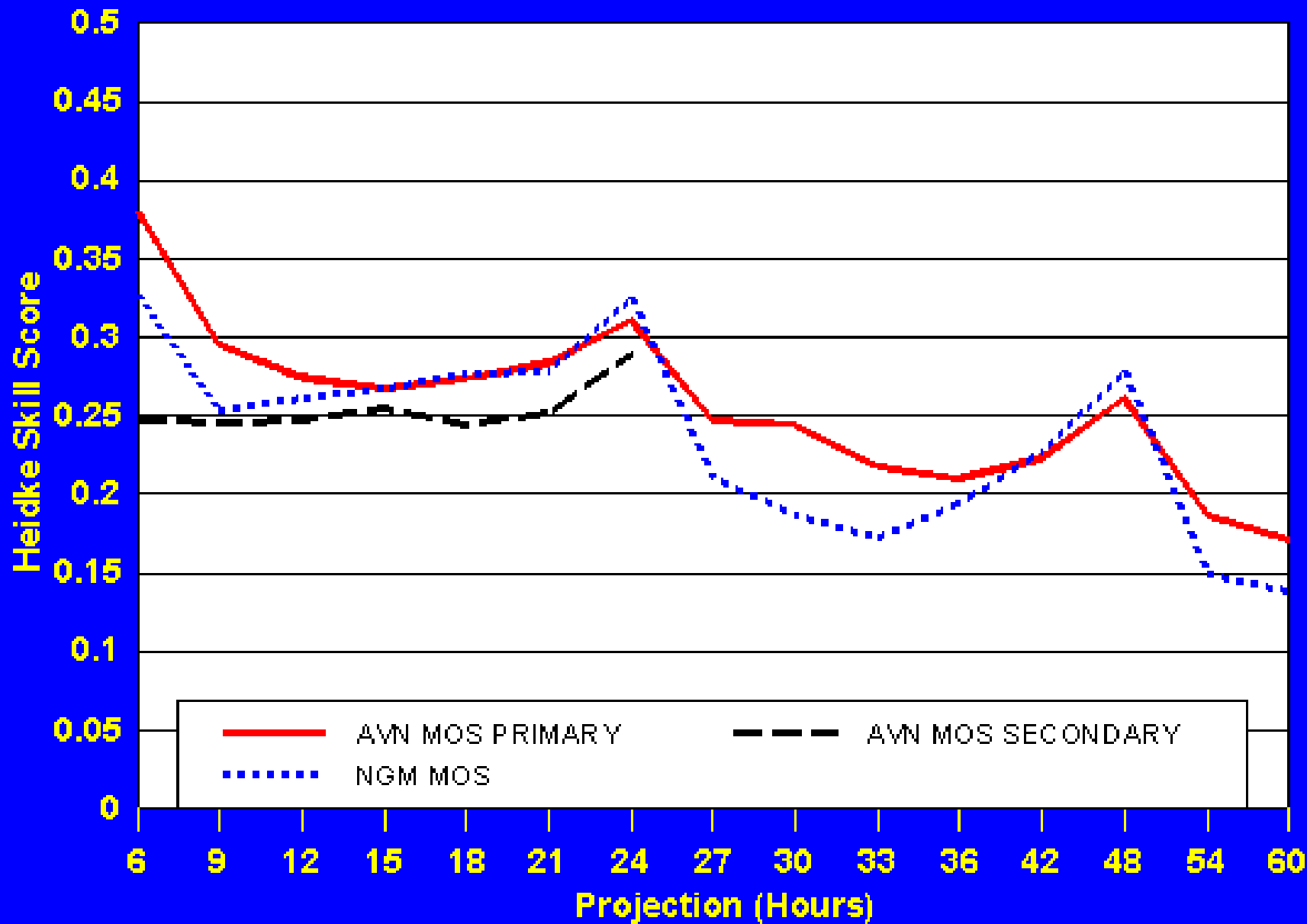
(Independent data 1999-2000 cool season)

Visibility Conus and Alaska 00Z Cycle



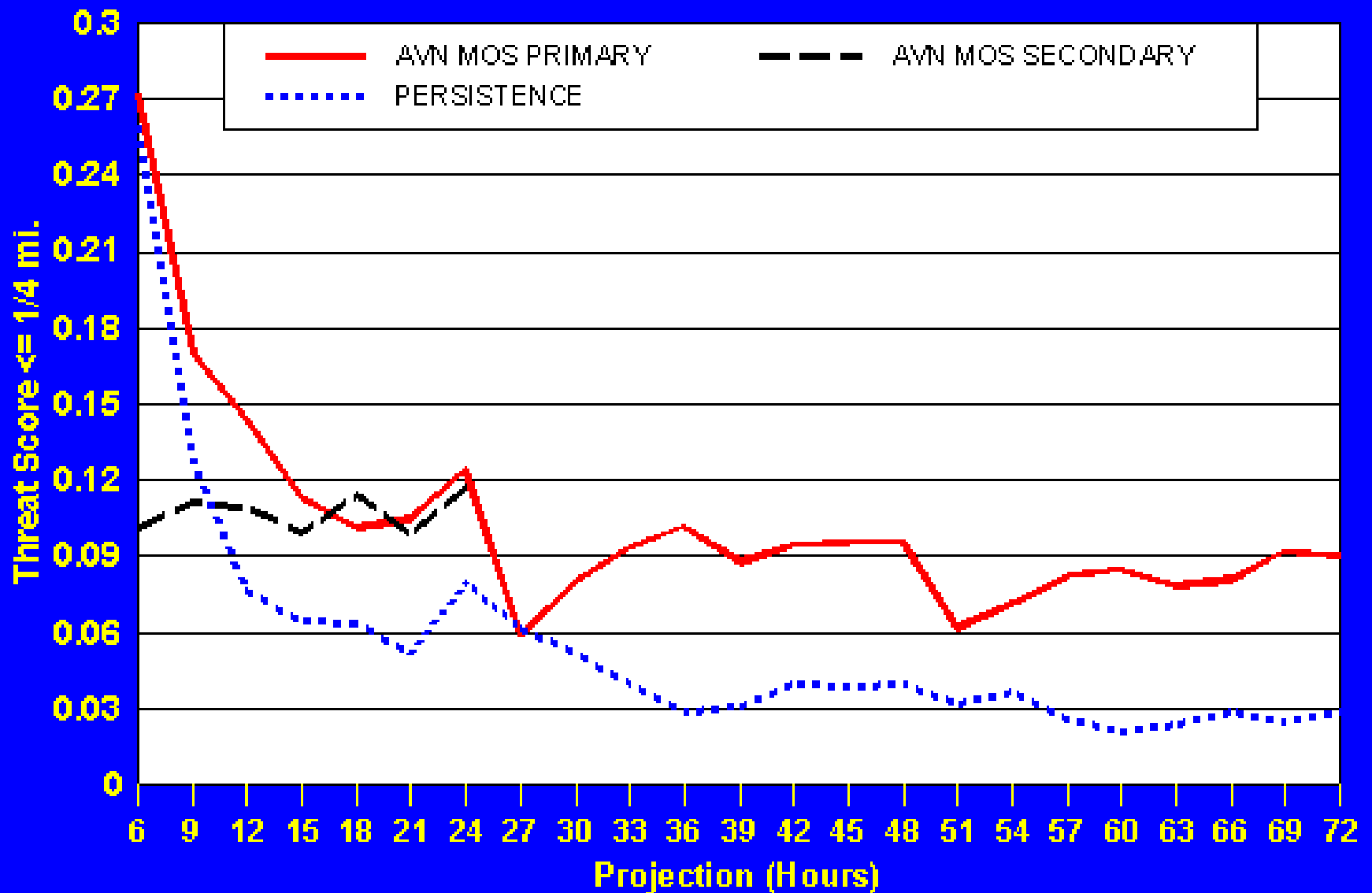
(Independent data 2000 warm season)

Visibility Conus and Alaska 12Z Cycle



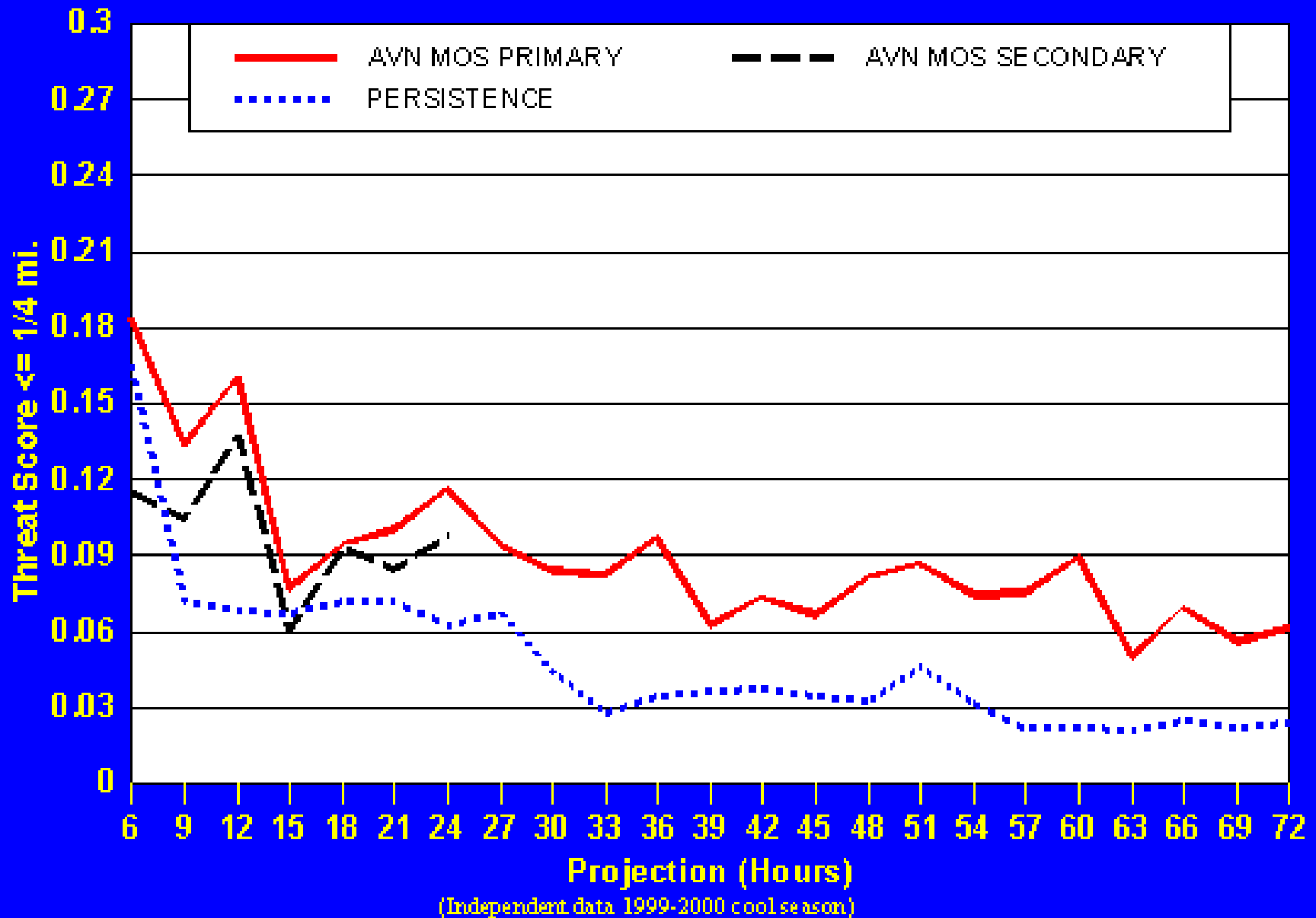
(Independent data 2000 warm season)

Visibility Conus and Alaska 00Z Cycle

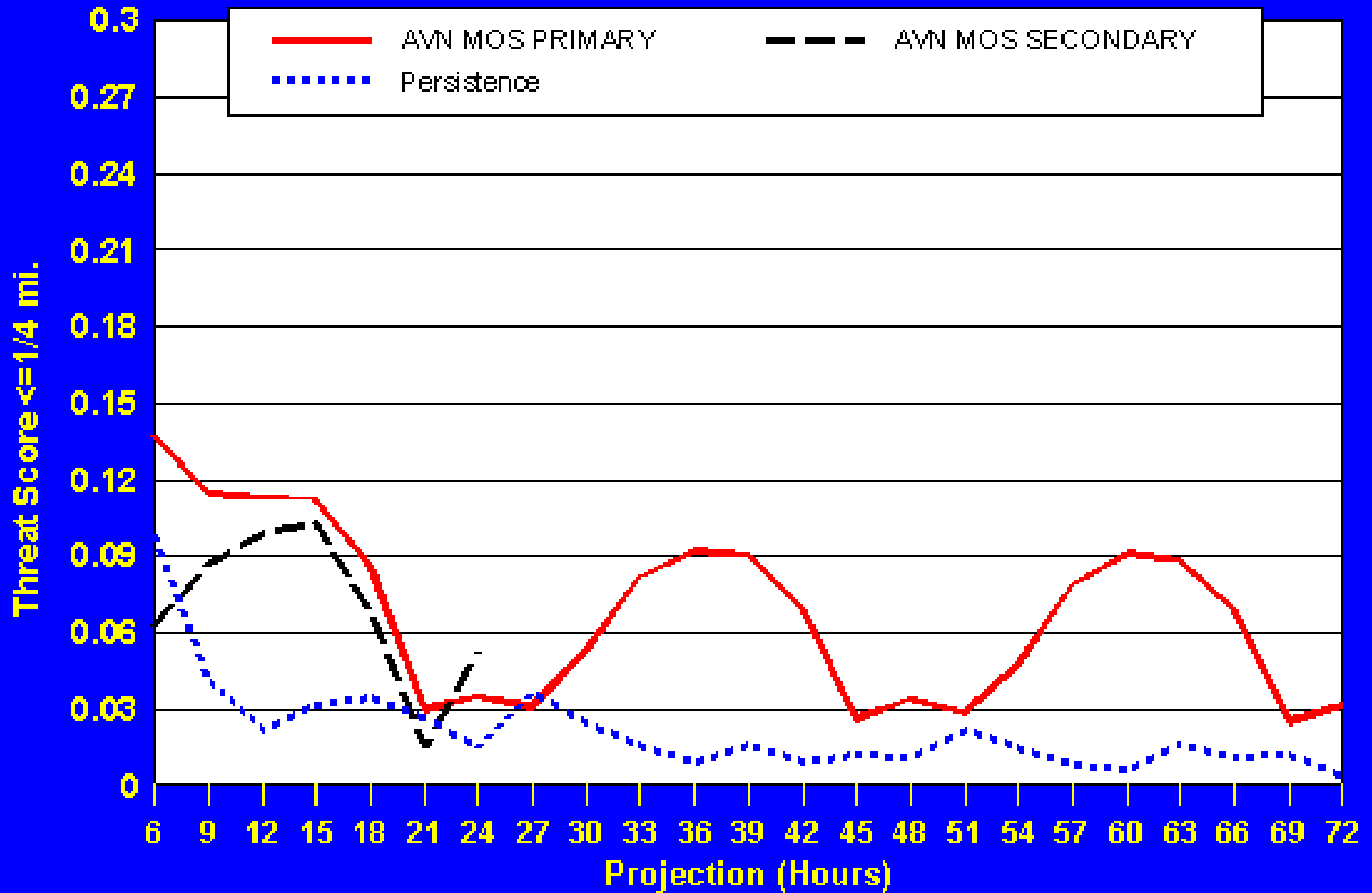


(Independent data 1999-2000 cool season)

Visibility Conus and Alaska 12Z Cycle

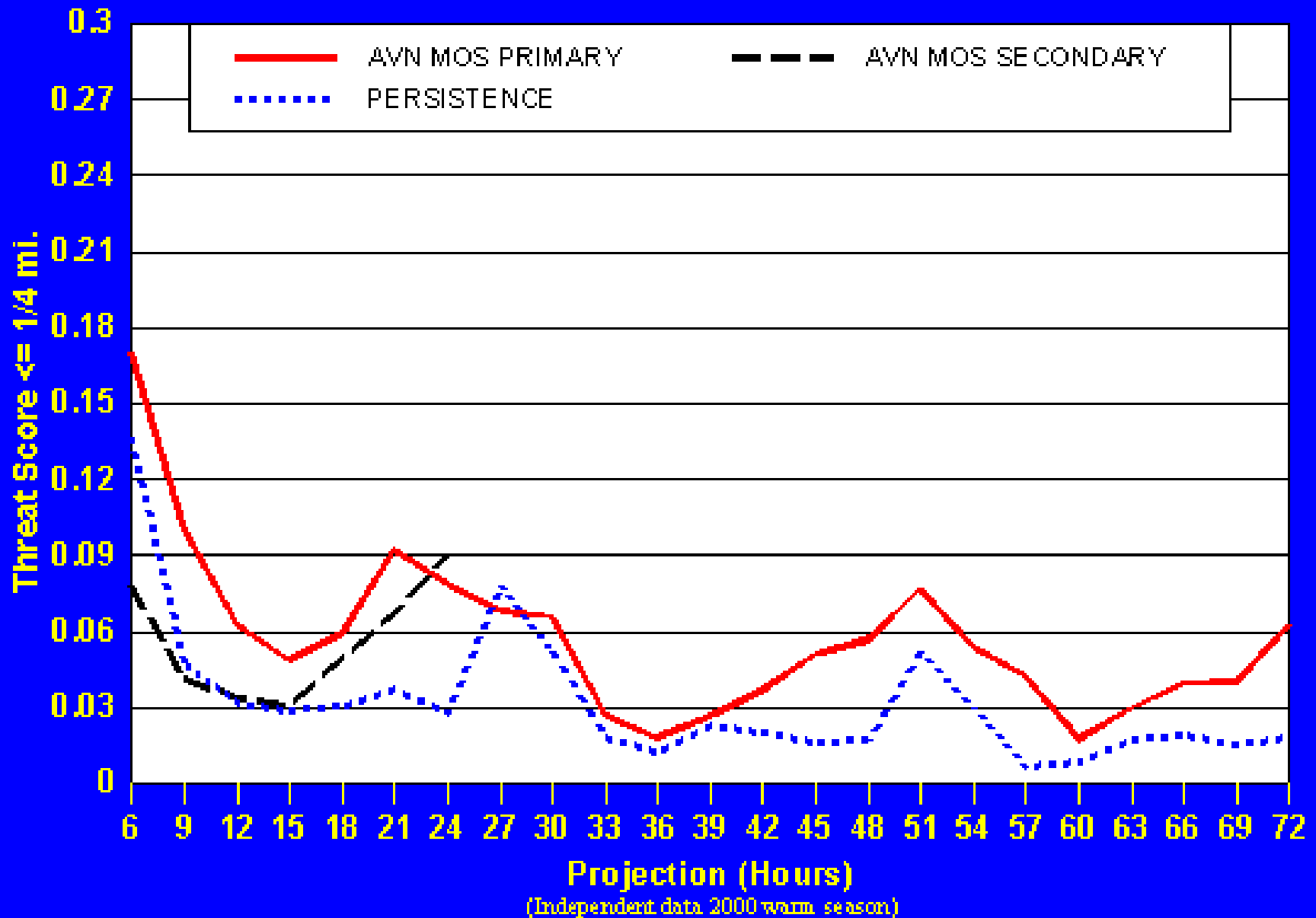


Visibility Conus and Alaska 00Z Cycle

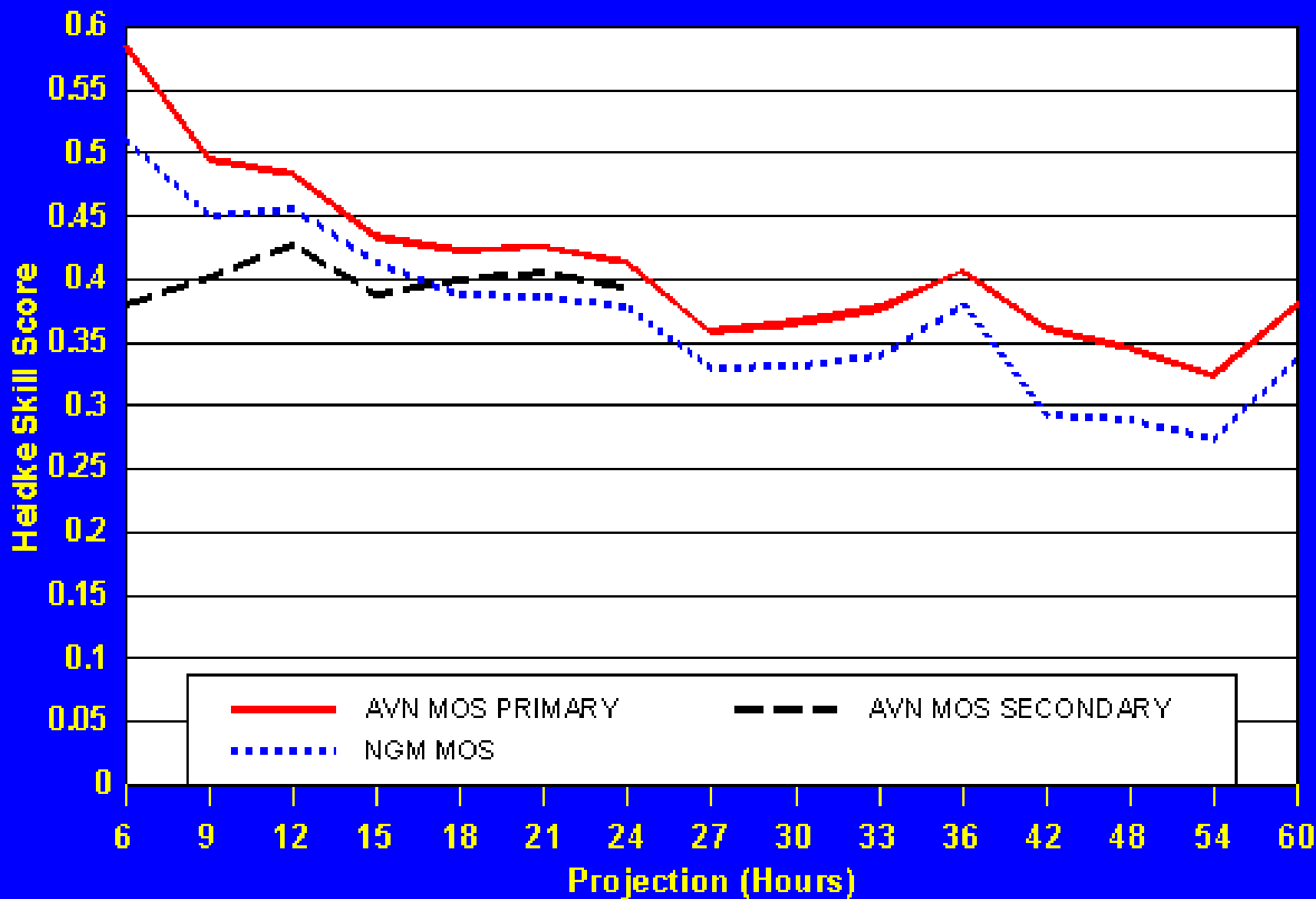


(Independent data 2000 warm season)

Visibility Conus and Alaska 12Z Cycle

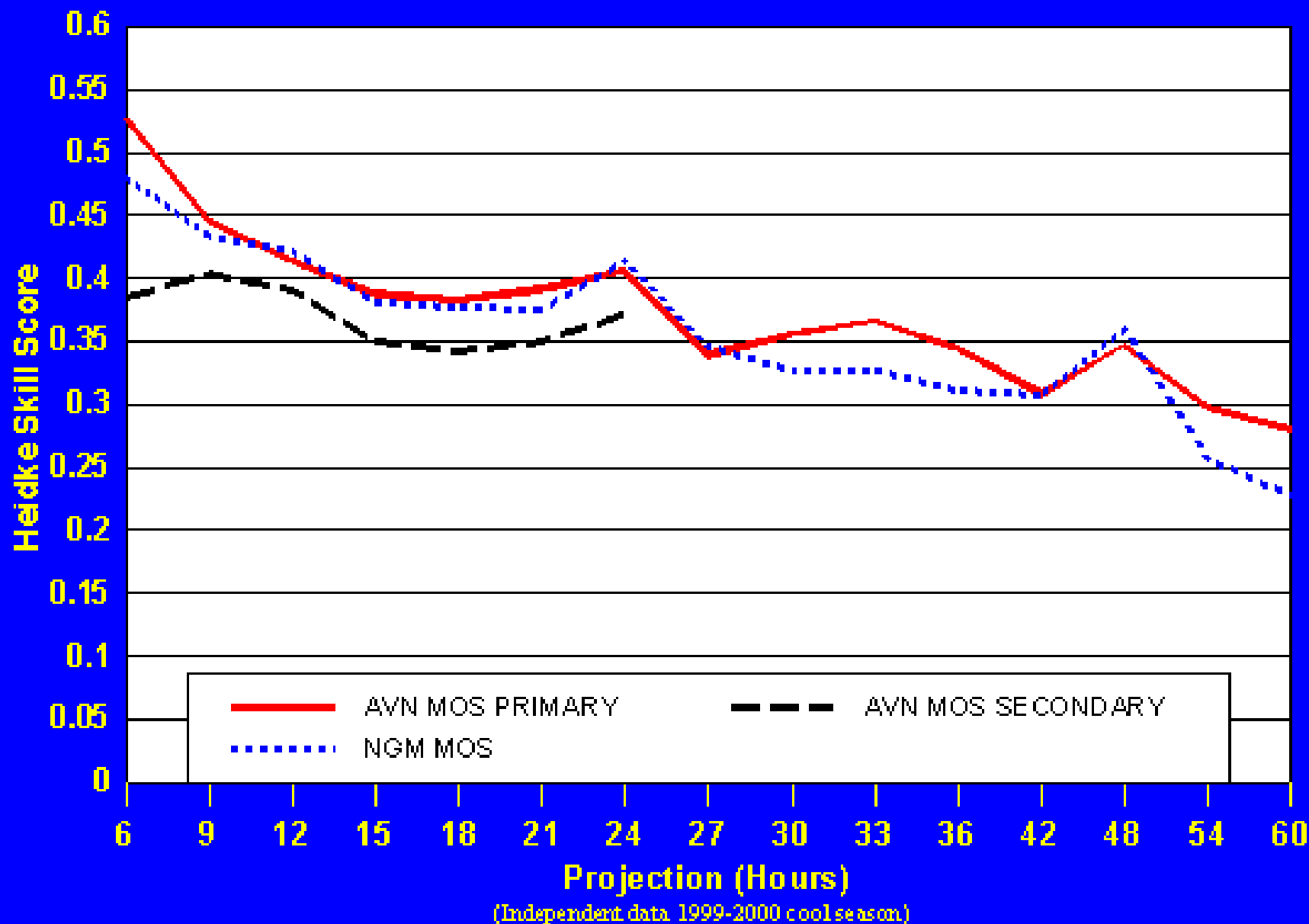


Obstruct. to Vision Conus and Alaska 00Z Cycle

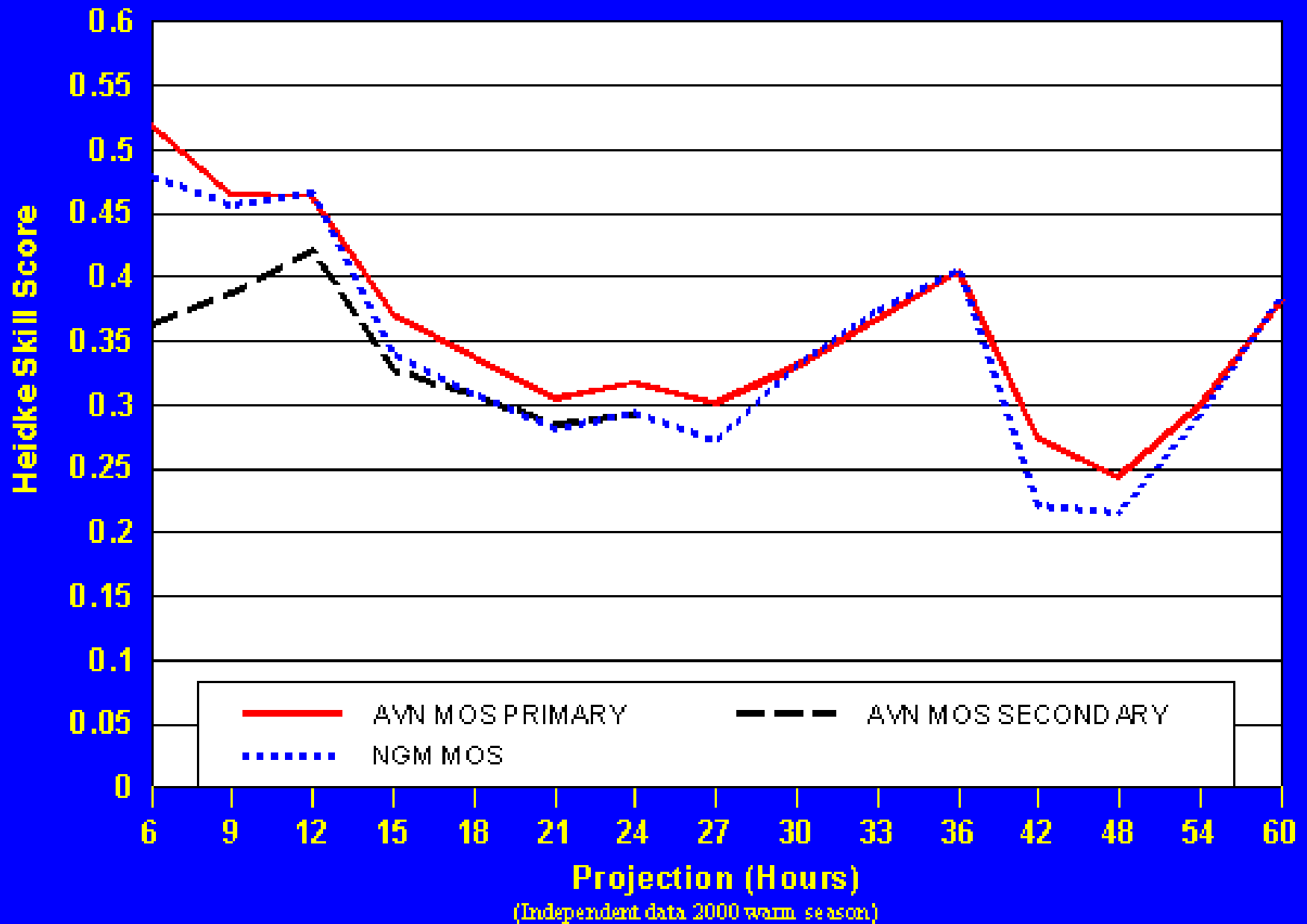


(Independent data, 1999-2000 cool season)

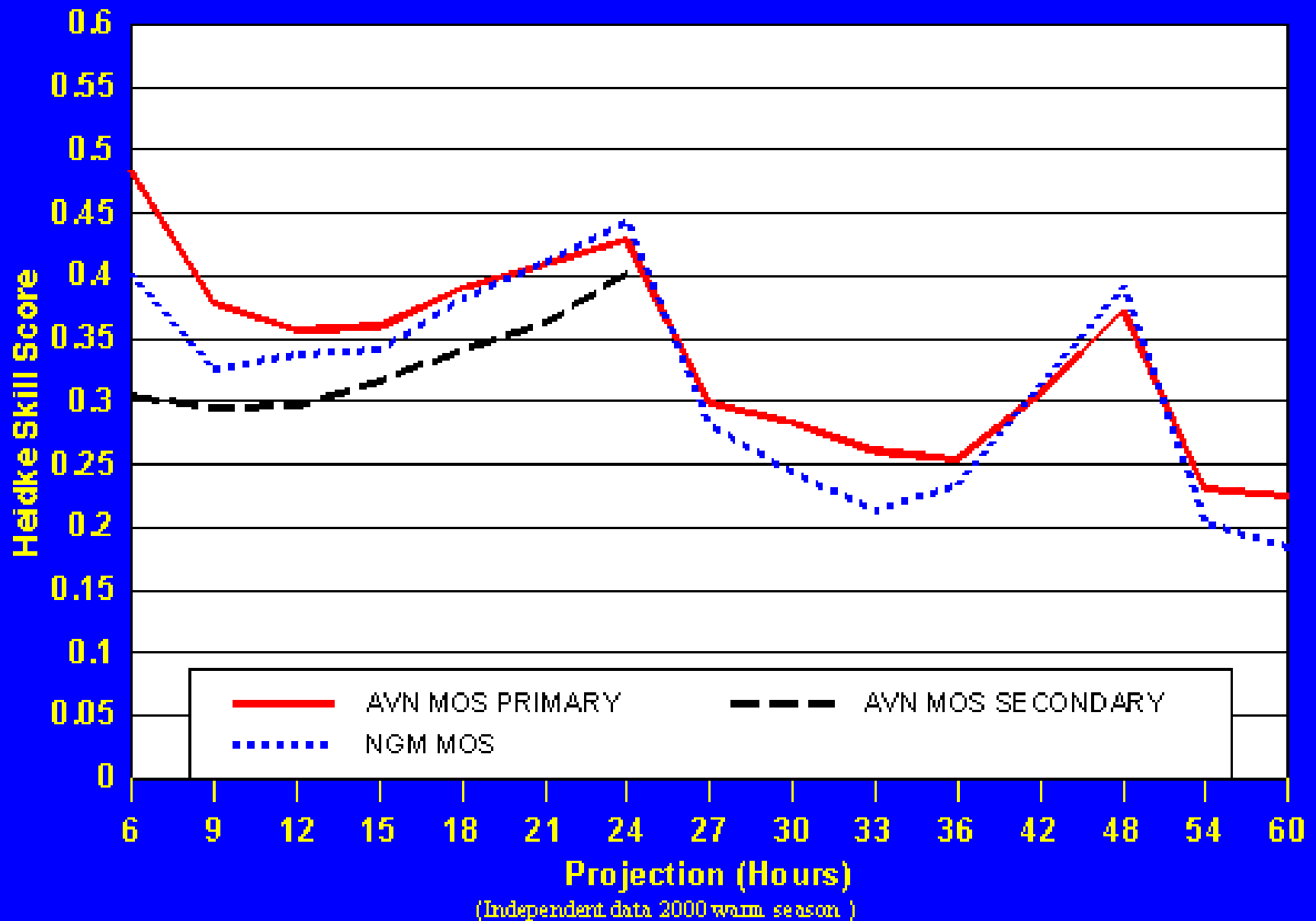
Obstruct. to Vision Conus and Alaska 12Z Cycle



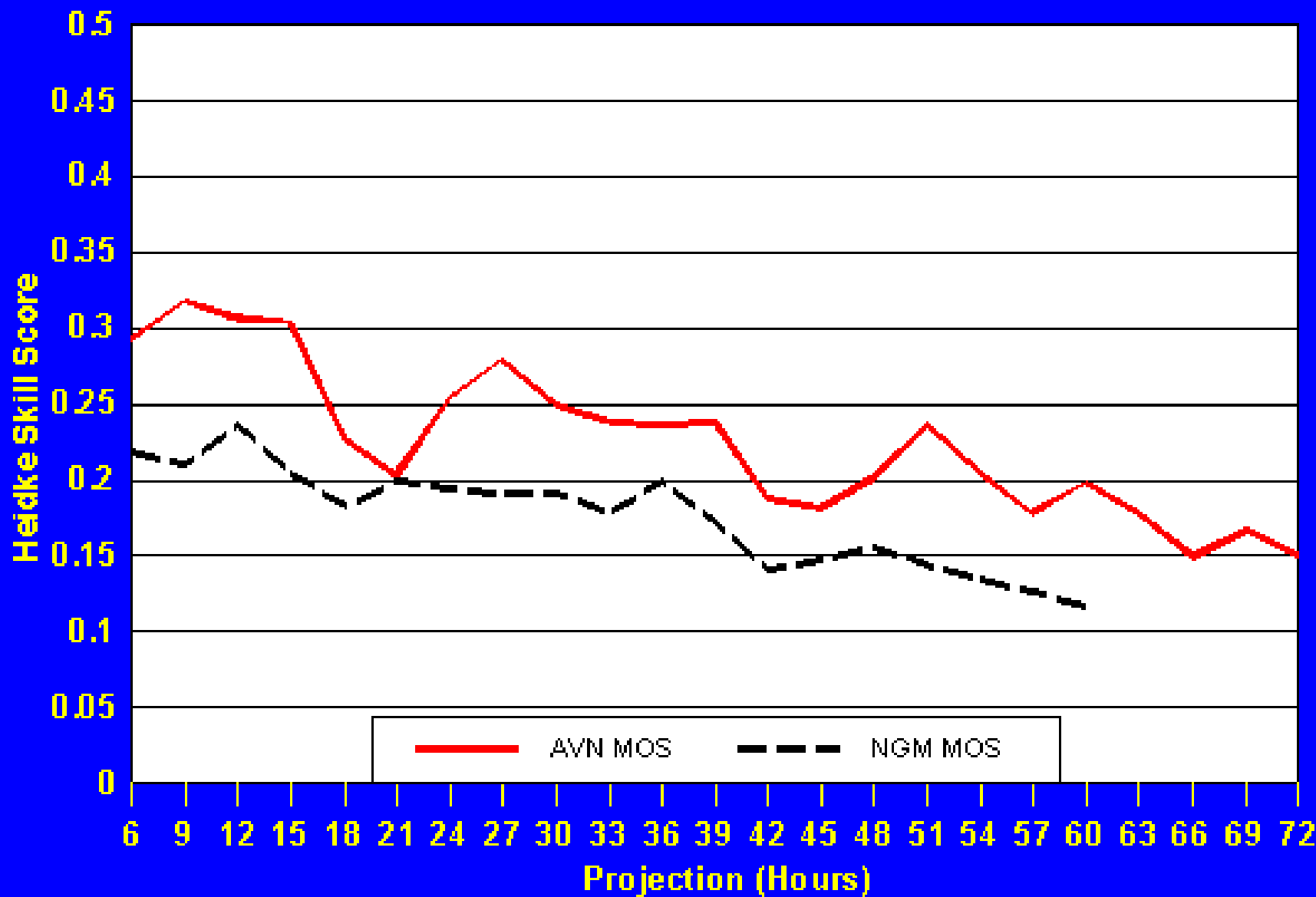
Obstruct. to Vision Conus and Alaska 00Z Cycle



Obstruct. to Vision Conus and Alaska 12Z Cycle

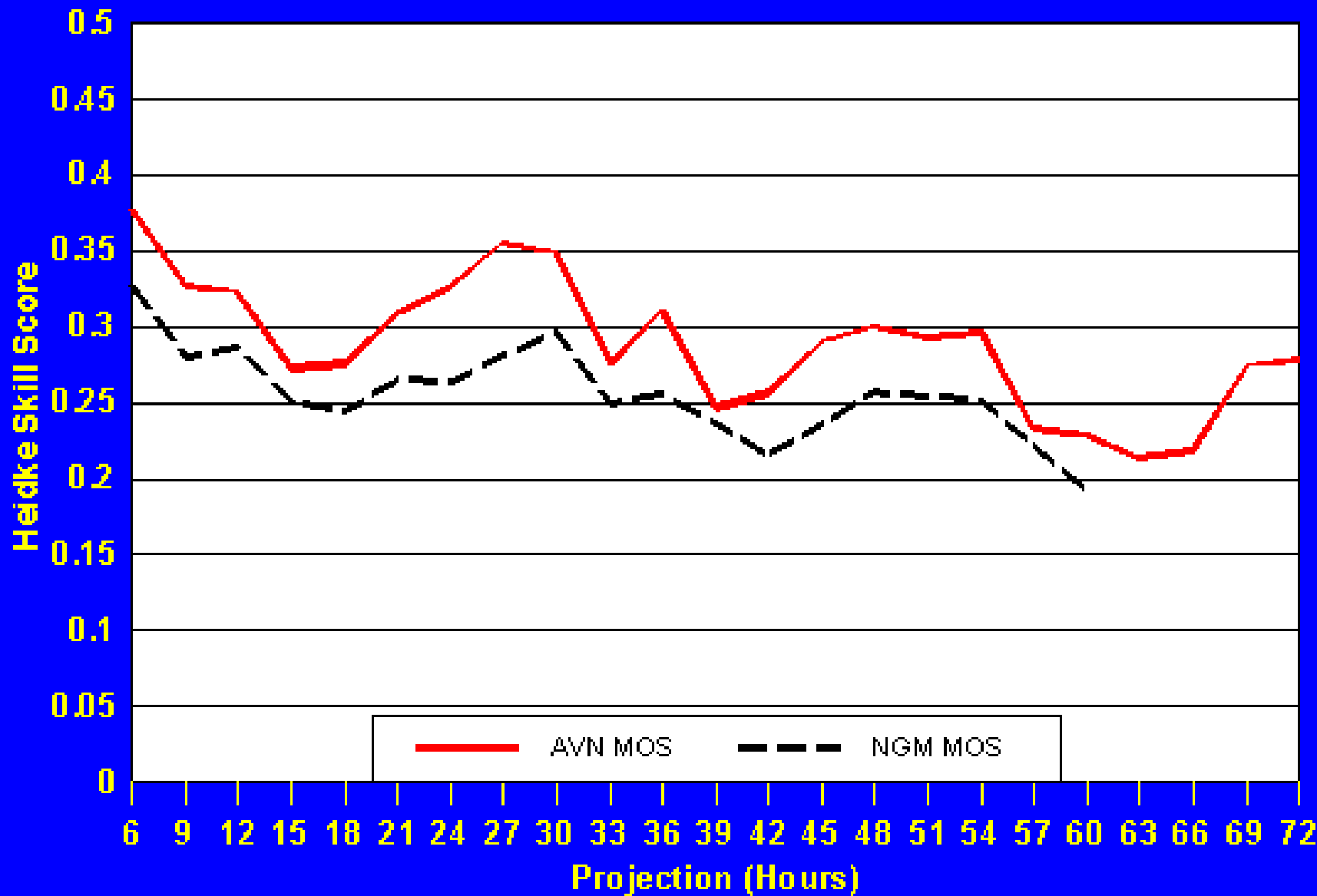


Precipitation Characteristics Conus and Alaska 00Z Cycle



(Independent data 1999-2000 cool season)

Precipitation Characteristics Conus and Alaska 00Z Cycle



(Independent data 2000 warm season)

FUTURE DEVELOPMENT

FY01 PLANS

- Max/min temperature guidance for WR RFC's (March 2001)
- BUFR product (April 2001)
- USAF MOS guidance product (April 2001)
- QPF Guidance (April 2001)
- Improved temperature guidance (June 2001)
- Snowfall guidance (September 2001)
- 0600/1800 UTC AVN MOS guidance packages (October 2001)