

List of NRO Standard Sources for Intensity Calibration

Source Name: **W3 CORE (IRS5)**

R.A.: **02h21m53.2s**
DEC: **61° 52' 21.0"** (1950)
Vlsr: **-40.00** km/s

Off Position: **(+30', 0')**
Pointing Source: **S-Per**

Reference 1: Hayashi et al., 1989, Ap.J., 340, 298-306
Reference 2: Hayashi et al., NRO Report No. 209
Reference 3:
Reference 4:

note): OFF position (+25', +25') was used at VIII.

List of NRO Standard Sources for Intensity Calibration

Source Name: **TMC1 (HC5N)**

R.A.: **04h38m38.6s**
DEC: **25° 35' 45.0"** (1950)
Vlsr: **5.85** km/s

Off Position: **(+30', +30')**
Pointing Source: **NML-Tau**

Reference 1: Suzuki et al., 1986, Publ. Astron. Soc. Japan, 38, 911-917
Reference 2:
Reference 3:
Reference 4:

note):

List of NRO Standard Sources for Intensity Calibration

Source Name: **ORION IRC2**

R.A.: **05h32m47.0s**
DEC: **-05° 24' 23.0"** (1950)
Vlsr: **9.00** km/s

Off Position: **(+15', +20')**
Pointing Source: **ORION-KL**

Reference 1: Hasegawa et al., 1984, Ap.J., 283, 117-122
Reference 2: Hasegawa et al., NRO Report No. 23
Reference 3:
Reference 4:

note):

List of NRO Standard Sources for Intensity Calibration

Source Name: IRC+10216

R.A.: 09h45m15.0s
DEC: 13° 30' 45.0" (1950)
Vlsr: -26.00 km/s

Off Position: (+15', 0')
Pointing Source: R-Leo

- Reference 1: NRO Standard Position
Reference 2:
Reference 3:
Reference 4:

note):

List of NRO Standard Sources for Intensity Calibration

Source Name: L134N

R.A.: 15h51m30.0s
DEC: -02° 43' 31.0" (1950)
Vlsr: 2.50 km/s

Off Position: (0', +30')
Pointing Source: U-Her

- Reference 1: Swade, 1989, Ap.J. (suppl.), 71, 219-244
Reference 2: Swade, 1989, Ap.J., 345, 828-852
Reference 3:
Reference 4:

note):

List of NRO Standard Sources for Intensity Calibration

Source Name: SGR B2

R.A.: 17h44m10.6s
DEC: -28° 22' 05.0" (1950)
Vlsr: 60.00 km/s

Off Position: (+60', 0')
Pointing Source: VX-Sgr

- Reference 1: Goldsmith et al., 1987, Ap.J., 314, 525-534
Reference 2: NRO Standard Position
Reference 3: Mauersberger et al., 1989, A&Ap. (Suppl.), 79, 217-261
Reference 4: Chung et al., NRO Report No. 202

note): OFF position (+15', +20') was used at VIII.

L134N - weak

$T_a^*(CS_{100}) \sim 2K$
 $^{12}CO(1-0)$

2009/2/17 Koda

List of NRO Standard Sources for Intensity Calibration

Source Name: M17SW

R.A.: 18h17m26.5s
DEC: -16° 14' 54.0" (1950)
Vlsr: 20.00 km/s

Off Position: (+60', 0')
Pointing Source: VX-Sgr

Reference 1: Mauersberger et al., 1989, A&Ap. (suppl.), 79, 217-261
Reference 2:
Reference 3:
Reference 4:

note):

List of NRO Standard Sources for Intensity Calibration

Source Name: W51main (H2O main)

R.A.: 19h21m26.2s
DEC: 14° 24' 43.0" (1950)
Vlsr: 55.00 km/s

Off Position: (0', -25')
Pointing Source: R-Aql

Reference 1: Genzel et al., 1982, Ap.J., 255, 527-535
Reference 2: Nakamura et al., 1984, Publ. Astron. Soc. Japan, 36, 123-137
Reference 3: Ohishi et al., 1984, Publ. Astron. Soc. Japan, 36, 505-515
Reference 4: 長谷川 他, 1987年日本天文学会秋期年会予稿集A075

note): OFF position (+30', 0') was used at VIII.

List of NRO Standard Sources for Intensity Calibration

Source Name: DR21

R.A.: 20h37m14.2s
DEC: 42° 09' 07.0" (1950)
Vlsr: -2.50 km/s

Off Position: (+30', 0')
Pointing Source: NML-Cyg

Reference 1: Mauersberger et al., 1989, A&Ap. (Suppl.), 79, 217-261
Reference 2:
Reference 3:
Reference 4:

note):

List of NRO Standard Sources for Intensity Calibration

Source Name: CRL2688

R.A.: 21h00m19.9s
DEC: 36° 29' 45.0" (1950)
Vlsr: -35.00 km/s

Off Position: (+15', 0')
Pointing Source: NML-Cyg

Reference 1: Kawabe et al., NRO Report No. 91
Reference 2:
Reference 3:
Reference 4:

note):

List of NRO Standard Sources for Intensity Calibration

Source Name: NGC7027

R.A.: 21h05m09.4s
DEC: 42° 02' 03.0" (1950)
Vlsr: 25.00 km/s

Off Position: (+30', 0')
Pointing Source: NML-Cyg

Reference 1: Masson, 1986, Ap.J. (Lett.), 302, L27-L30
Reference 2:
Reference 3:
Reference 4:

note):

List of NRO Standard Sources for Intensity Calibration

Source Name: S140 (IRS1)

R.A.: 22h17m41.1s
DEC: 63° 03' 42.0" (1950)
Vlsr: -7.00 km/s

Off Position: (-20', -20')
Pointing Source: T-CEP

Reference 1: Schwartz et al., 1983, Ap.J., 271, 625-631
Reference 2:
Reference 3:
Reference 4:

note): OFF position (-10', -10) was used at VII.

List of NRO Standard Sources for Intensity Calibration

Source Name: NGC7538 IRS1

R.A.: 23h11m36.8s

DEC: 61° 11' 48.0" (1950)

Vlsr: -57.00 km/s

Off Position: (0', +30')

Pointing Source: R-CAS

Reference 1: Kameya et al. NRO Report No. 75, 192, 198

Reference 2: Kameya et al., 1986, Publ. Astron. Soc. Japan, 38, 793-810

Reference 3: Kameya et al., 1989, Ap.J., 339, 222-230

Reference 4: Kameya et al., 1988, Publ. Astron. Soc. Japan, 40, 413-420

note):