**이중편파레이더 항공기상지원서비스**

**웹관리자 : CGI 매뉴얼**

**※ 참고 사이트 : http://rdr.kma.go.kr/wiki/doku.php?id=air:cgi\_inf**

**□ 종합감시 웹CGI 경로**

|  |  |  |
| --- | --- | --- |
| **종류** | **공통경로** | **비고** |
| **강수** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_cmp\_img?&cmp=HSR&xp=627&yp=627&fir=1&routes=1&qcd=HCL&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&ht=1500&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} |  |
| **눈비** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_sfc\_pty\_img?&cmp=SFC&qcd=&obs=RNSN&griddisp=0&rnexdisp=2&color=C4&xp=18&yp=18&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&gc=&gc\_itv=60&fir=0&routes=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} |  |
| **수상체** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_cmp\_img?&cmp=HCI&xp=18&yp=18&size=700&fir=0&routes=0&qcd=EXT&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&ht=1500&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} |  |
| **바람** | 인천공항  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_air\_ana\_img?&obs=wv&xp=18&yp=18&fir=0&routes=0&sms=1&color=C4&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size}  그 외 공항  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_ana\_img?&obs=wv&xp=18&yp=18&runway=GMP&fir=0&routes=0&sms=1&color=C4&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} |  |
| **풍속** | 인천공항  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_air\_ana\_img?&obs=ws&xp=18&yp=18&fir=0&routes=0&sms=1&color=C4&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size}  그외  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_ana\_img?&obs=ws&xp=18&yp=18&fir=0&routes=0&sms=1&color=C4&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} |  |
| **우박** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_cmp\_img?&cmp=HAIL&xp=18&yp=18&size=400&fir=0&routes=0&qcd=EXT&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} |  |
| **낙뢰** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-lgt\_dst\_img?&itv=60&gc=T&obs=lgt\_dst&xp=18&yp=18&fir=0&routes=0&polar=S&val=1&stn=1&obj=mq&color=C4&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} | 전체:T  구름:C  대지:G |
| **위성** | http://radar.kma.go.kr/cgi-bin/tablet/nph-gk2a\_img?&band2=&grid=4&legend=1&zoom\_level=0&zoom\_x=0000000&zoom\_y=0000000&lonlat=1&rand=111621&band1=ir105&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} | 적외 : ir105  수증기1 : wv063  수증기2 : wv069  수증기3 : wv073 |
| **LLWAS** | http://radar.kma.go.kr/cgi-bin/mobile2/nph-rdr\_llwas\_img?&xp=18&yp=18&runway=0&zoom\_x=0000000&zoom\_y=0000000&tm=${tm}&map=${map}&stn=${runway}&ht=${ht}&size=${size} |  |

${tm}: 발표시간

${map}: 공항 map [참고1]

${runway}: 항공로 [참고1]

${ht}: 고도(1524 고정)

${size}: 이미지사이즈

**[참고1]** 공항별 map & runway

|  |  |  |  |
| --- | --- | --- | --- |
| **공항** | **map** | **runway** | **비고** |
| 인천 | ICN | AI1 |  |
| 김포 | GMP | AG1 |  |
| 원주 | WJU | AW1 | 군사공항 |
| 양양 | YNY | AY1 |  |
| 군산 | KUV | AV1 | 군사공항 |
| 청주 | CJJ | AC1 | 군사공항 |
| 대구 | TAE | AT1 |  |
| 포항 | KPO | AO1 | 군사공항 |
| 무안 | MWX | AM1 |  |
| 여수 | RSU | AR1 |  |
| 사천 | HIN | AH1 | 군사공항 |
| 김해 | PUS | AP1 | 군사공항 |
| 울산 | USN | AU1 |  |
| 제주 | CJU | AJ1 |  |
| **공역** | FIR |  | 공역에서표시 |

※ 군사공항은 runway 0으로 표시

※ 공역은 runway 없음

**□ 레이더 웹CGI 경로**

|  |  |  |
| --- | --- | --- |
| **종류** | **공통경로** | **비고** |
| **강수(지상)** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_cmp\_img?&cmp=HSR&fir=0&routes=0&qcd=EXT&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size} |  |
| **강수(고도)** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_r3d\_ana\_img?&vol=RN&cmp=R3D&fir=0&routes=0&qcd=EXT&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} |  |
| **눈비** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_sfc\_pty\_img?&cmp=SFC&qcd=&obs=RNSN&griddisp=0&rnexdisp=2&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&gc=&gc\_itv=60&fir=0&routes=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size} |  |
| **수상체(지상)** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_cmp\_img?&cmp=HCI&fir=0&routes=0&qcd=EXT&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size} |  |
| **수상체(고도)** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_r3d\_ana\_img?&vol=HCI2&fir=0&routes=0&cmp=R3D&qcd=EXT&obs=ECHO&ZRa=148&ZRb=1.59&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} |  |
| **바람** | 인천공항  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_air\_ana\_img?&obs=wv&fir=0&routes=0&sms=1&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht}  그외 http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_ana\_img?&obs=wv&runway=GMP&fir=0&routes=0&sms=1&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-1&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} |  |
| **풍속** | 인천공항  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_air\_ana\_img?&obs=ws&fir=0&routes=0&sms=1&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht}  그외  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_ana\_img?&obs=ws&runway=GMP&fir=0&routes=0&sms=1&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} |  |
| **우박** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_cmp\_img?&cmp=HAIL&size=400&fir=0&routes=0&qcd=EXT&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} |  |
| **낙뢰** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-lgt\_dst\_img?&itv=60&gc=T&obs=lgt\_dst&fir=0&routes=0&polar=S&val=1&stn=1&obj=mq&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} | 전체:T  구름:C  대지:G |
| **위성** | 'http://radar.kma.go.kr/cgi-bin/tablet/nph-gk2a\_img?&band2=&grid=4&legend=1&zoom\_level=0&zoom\_x=0000000&zoom\_y=0000000&lonlat=1&rand=111621&map=HR&band1=ir105&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} | 적외 : ir105  수증기1 : wv063  수증기2 : wv069  수증기3 : wv073 |
| **LLWAS** | http://radar.kma.go.kr/cgi-bin/mobile2/nph-rdr\_llwas\_img?&xp=18&yp=18&runway=0&zoom\_x=0000000&zoom\_y=0000000&stn=${runway}&map=HR&tm=${tm}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} |  |

${tm}: 발표시간

${runway}: 항공로 [참고1]

${ht}: 고도

${size}: 이미지사이즈

${xp}.${yp},${lat},${lon}: 위경도 및 기준점 [참고2]

${zoom}: 확대정도(30km: 17.0667, 50km: 10.24, 100km: 5.12)

${map}: 공항 - HR, 공역 - HIR

[참고2] 공항정보(위경도 및 기준점)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **공항** | **xp** | **yp** | **lat** | **lon** | **비고** |
| 인천 | 477.92602012643 | 711.78296609136 | 37.461854 | 126.440609 |  |
| 김포 | 508.54241914835 | 722.33056215029 | 37.556944 | 126.797500 |  |
| 원주 | 608.78077279881 | 711.16398112084i | 35.593333 | 129.352222 |  |
| 양양 | 667.31333517722 | 781.00565639757 | 38.066667 | 128.666667 |  |
| 군산 | 494.31034135672 | 542.60891186366 | 35.903889 | 126.615833 |  |
| 청주 | 570.55080670985 | 631.98785669916 | 36.716389 | 127.499167 |  |
| 대구 | 674.48190921908 | 545.23509755724 | 35.894167 | 128.658889 |  |
| 포항 | 741.00905397438 | 557.95938290883 | 35.987778 | 129.418611 |  |
| 무안 | 474.23298070607 | 443.00127524019 | 34.991389 | 126.382778 |  |
| 여수 | 584.95266368684 | 428.09561300206 | 34.842222 | 127.617222 |  |
| 사천 | 624.88169802508 | 455.92184934473 | 35.088611 | 128.070556 |  |
| 김해 | 701.94381374666 | 468.37060015963 | 35.180556 | 128.938056 |  |
| 울산 | 736.96497241427 | 514.79001784316 | 35.593333 | 129.352222 |  |
| 제주 | 485.7240158468 | 281.69647671293 | 33.516667 | 126.500000 |  |
| **공역** |  |  |  |  | 없음 |

연직 URL경로  
http://radar.kma.go.kr/cgi-bin/center/nph-rdr\_r3d\_rhi\_img?&tm=${tm}&qcd=EXT&obs=ECHO&x1=${x1}&y1=${y1}&x2=${x2}&y2=${y2}&ht\_max=10&z\_resol=400&size\_y=300&ta=0:-10:-20&barb=0&gc=&gc\_itv=0  
-> 공항별 계산된 값이 들어갑니다.

**□ 공항-활주로 웹CGI 경로**

http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_r3d\_rhi\_air?gc=T&gc\_itv=60&barb=1&size\_y=400&qcd=EXT&obs=ECHO&ht\_max=10&z\_resol=200&vol=${vol}&tm=${tm}&air=${runway}  
${tm}: 발표시간

${runway}: 항공로[참고1]

${vol}: 강수 - RN, 수상체 -HCI

**□ 공역-항공로 웹CGI 경로**

http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_r3d\_rhi\_route?size\_x=1000&size\_y=200&gc=T&gc\_itv=60&barb=1&qcd=EXT&obs=ECHO&ht\_max=16&z\_resol=400&legend=1&tm=${tm}&vol=${vol}&air=${airline}  
${tm}: 발표시간

${airline}: 활주로[참고3]

${vol}: 강수 - RN, 수상체 -HCI

[참고3] 활주로



**□ 예측 웹CGI 경로**

http://radar.kma.go.kr/cgi-bin/tablet2/nph-qpf\_ana\_img?size=400&eva=1&option=1&xp=18&yp=18&zoom=1&legend=0&lonlat=1&color=C4&aws=01&wt=0&gov=&fir=0&routes=0&qpf=${qpf}&ef=${ef}&runway=1&map=${map}&tm=${tm}  
${tm}: 발표시간

${map}: 지점[참고1]

${qpf}: 강수 - M, 낙뢰 - L

${ef}: 예측시간 *예) 60분뒤의 예측을 보고 있으면 ef=60*

**이중편파레이더 항공기상지원서비스**

**웹관리자 : CGI 매뉴얼**

**※ 참고 사이트 : http://rdr.kma.go.kr/wiki/doku.php?id=air:cgi\_inf**

**□ 종합감시 웹CGI 경로**

|  |  |  |
| --- | --- | --- |
| **종류** | **공통경로** | **비고** |
| **강수** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_cmp\_img?&cmp=HSR&xp=627&yp=627&fir=1&routes=1&qcd=HCL&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&ht=1500&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} |  |
| **눈비** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_sfc\_pty\_img?&cmp=SFC&qcd=&obs=RNSN&griddisp=0&rnexdisp=2&color=C4&xp=18&yp=18&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&gc=&gc\_itv=60&fir=0&routes=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} |  |
| **수상체** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_cmp\_img?&cmp=HCI&xp=18&yp=18&size=700&fir=0&routes=0&qcd=EXT&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&ht=1500&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} |  |
| **바람** | 인천공항  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_air\_ana\_img?&obs=wv&xp=18&yp=18&fir=0&routes=0&sms=1&color=C4&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size}  그 외 공항  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_ana\_img?&obs=wv&xp=18&yp=18&runway=GMP&fir=0&routes=0&sms=1&color=C4&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} |  |
| **풍속** | 인천공항  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_air\_ana\_img?&obs=ws&xp=18&yp=18&fir=0&routes=0&sms=1&color=C4&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size}  그외  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_ana\_img?&obs=ws&xp=18&yp=18&fir=0&routes=0&sms=1&color=C4&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} |  |
| **우박** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_cmp\_img?&cmp=HAIL&xp=18&yp=18&size=400&fir=0&routes=0&qcd=EXT&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} |  |
| **낙뢰** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-lgt\_dst\_img?&itv=60&gc=T&obs=lgt\_dst&xp=18&yp=18&fir=0&routes=0&polar=S&val=1&stn=1&obj=mq&color=C4&lon=&lat=&zoom=1&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} | 전체:T  구름:C  대지:G |
| **위성** | http://radar.kma.go.kr/cgi-bin/tablet/nph-gk2a\_img?&band2=&grid=4&legend=1&zoom\_level=0&zoom\_x=0000000&zoom\_y=0000000&lonlat=1&rand=111621&band1=ir105&tm=${tm}&map=${map}&runway=${runway}&ht=${ht}&size=${size} | 적외 : ir105  수증기1 : wv063  수증기2 : wv069  수증기3 : wv073 |
| **LLWAS** | http://radar.kma.go.kr/cgi-bin/mobile2/nph-rdr\_llwas\_img?&xp=18&yp=18&runway=0&zoom\_x=0000000&zoom\_y=0000000&tm=${tm}&map=${map}&stn=${runway}&ht=${ht}&size=${size} |  |

${tm}: 발표시간

${map}: 공항 map [참고1]

${runway}: 항공로 [참고1]

${ht}: 고도(1524 고정)

${size}: 이미지사이즈

**[참고1]** 공항별 map & runway

|  |  |  |  |
| --- | --- | --- | --- |
| **공항** | **map** | **runway** | **비고** |
| 인천 | ICN | AI1 |  |
| 김포 | GMP | AG1 |  |
| 원주 | WJU | AW1 | 군사공항 |
| 양양 | YNY | AY1 |  |
| 군산 | KUV | AV1 | 군사공항 |
| 청주 | CJJ | AC1 | 군사공항 |
| 대구 | TAE | AT1 |  |
| 포항 | KPO | AO1 | 군사공항 |
| 무안 | MWX | AM1 |  |
| 여수 | RSU | AR1 |  |
| 사천 | HIN | AH1 | 군사공항 |
| 김해 | PUS | AP1 | 군사공항 |
| 울산 | USN | AU1 |  |
| 제주 | CJU | AJ1 |  |
| **공역** | FIR |  | 공역에서표시 |

※ 군사공항은 runway 0으로 표시

※ 공역은 runway 없음

**□ 레이더 웹CGI 경로**

|  |  |  |
| --- | --- | --- |
| **종류** | **공통경로** | **비고** |
| **강수(지상)** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_cmp\_img?&cmp=HSR&fir=0&routes=0&qcd=EXT&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size} |  |
| **강수(고도)** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_r3d\_ana\_img?&vol=RN&cmp=R3D&fir=0&routes=0&qcd=EXT&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} |  |
| **눈비** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_sfc\_pty\_img?&cmp=SFC&qcd=&obs=RNSN&griddisp=0&rnexdisp=2&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&gc=&gc\_itv=60&fir=0&routes=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size} |  |
| **수상체(지상)** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_cmp\_img?&cmp=HCI&fir=0&routes=0&qcd=EXT&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size} |  |
| **수상체(고도)** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_r3d\_ana\_img?&vol=HCI2&fir=0&routes=0&cmp=R3D&qcd=EXT&obs=ECHO&ZRa=148&ZRb=1.59&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} |  |
| **바람** | 인천공항  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_air\_ana\_img?&obs=wv&fir=0&routes=0&sms=1&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht}  그외 http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_ana\_img?&obs=wv&runway=GMP&fir=0&routes=0&sms=1&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-1&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} |  |
| **풍속** | 인천공항  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_air\_ana\_img?&obs=ws&fir=0&routes=0&sms=1&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht}  그외  http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_wis\_ana\_img?&obs=ws&runway=GMP&fir=0&routes=0&sms=1&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} |  |
| **우박** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_cmp\_img?&cmp=HAIL&size=400&fir=0&routes=0&qcd=EXT&obs=ECHO&color=C4&ZRa=148&ZRb=1.59&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} |  |
| **낙뢰** | http://radar.kma.go.kr/cgi-bin/tablet2/nph-lgt\_dst\_img?&itv=60&gc=T&obs=lgt\_dst&fir=0&routes=0&polar=S&val=1&stn=1&obj=mq&color=C4&title=1&legend=1&lonlat=0&center=0&topo=0&typ=0&wv=0&aws=01&wt=0&gov=KMA&x1=-10&y1=-10&x2=-10&y2=-10&map=HR&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} | 전체:T  구름:C  대지:G |
| **위성** | 'http://radar.kma.go.kr/cgi-bin/tablet/nph-gk2a\_img?&band2=&grid=4&legend=1&zoom\_level=0&zoom\_x=0000000&zoom\_y=0000000&lonlat=1&rand=111621&map=HR&band1=ir105&tm=${tm}&runway=${runway}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} | 적외 : ir105  수증기1 : wv063  수증기2 : wv069  수증기3 : wv073 |
| **LLWAS** | http://radar.kma.go.kr/cgi-bin/mobile2/nph-rdr\_llwas\_img?&xp=18&yp=18&runway=0&zoom\_x=0000000&zoom\_y=0000000&stn=${runway}&map=HR&tm=${tm}&xp=${xp}&yp=${yp}&lat=${lat}&lon=${lon}&zoom=${zoom}&size=${size}&ht=${ht} |  |

${tm}: 발표시간

${runway}: 항공로 [참고1]

${ht}: 고도

${size}: 이미지사이즈

${xp}.${yp},${lat},${lon}: 위경도 및 기준점 [참고2]

${zoom}: 확대정도(30km: 17.0667, 50km: 10.24, 100km: 5.12)

${map}: 공항 - HR, 공역 - HIR

[참고2] 공항정보(위경도 및 기준점)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **공항** | **xp** | **yp** | **lat** | **lon** | **비고** |
| 인천 | 477.92602012643 | 711.78296609136 | 37.461854 | 126.440609 |  |
| 김포 | 508.54241914835 | 722.33056215029 | 37.556944 | 126.797500 |  |
| 원주 | 608.78077279881 | 711.16398112084i | 35.593333 | 129.352222 |  |
| 양양 | 667.31333517722 | 781.00565639757 | 38.066667 | 128.666667 |  |
| 군산 | 494.31034135672 | 542.60891186366 | 35.903889 | 126.615833 |  |
| 청주 | 570.55080670985 | 631.98785669916 | 36.716389 | 127.499167 |  |
| 대구 | 674.48190921908 | 545.23509755724 | 35.894167 | 128.658889 |  |
| 포항 | 741.00905397438 | 557.95938290883 | 35.987778 | 129.418611 |  |
| 무안 | 474.23298070607 | 443.00127524019 | 34.991389 | 126.382778 |  |
| 여수 | 584.95266368684 | 428.09561300206 | 34.842222 | 127.617222 |  |
| 사천 | 624.88169802508 | 455.92184934473 | 35.088611 | 128.070556 |  |
| 김해 | 701.94381374666 | 468.37060015963 | 35.180556 | 128.938056 |  |
| 울산 | 736.96497241427 | 514.79001784316 | 35.593333 | 129.352222 |  |
| 제주 | 485.7240158468 | 281.69647671293 | 33.516667 | 126.500000 |  |
| **공역** |  |  |  |  | 없음 |

연직 URL경로  
http://radar.kma.go.kr/cgi-bin/center/nph-rdr\_r3d\_rhi\_img?&tm=${tm}&qcd=EXT&obs=ECHO&x1=${x1}&y1=${y1}&x2=${x2}&y2=${y2}&ht\_max=10&z\_resol=400&size\_y=300&ta=0:-10:-20&barb=0&gc=&gc\_itv=0  
-> 공항별 계산된 값이 들어갑니다.

**□ 공항-활주로 웹CGI 경로**

http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_r3d\_rhi\_air?gc=T&gc\_itv=60&barb=1&size\_y=400&qcd=EXT&obs=ECHO&ht\_max=10&z\_resol=200&vol=${vol}&tm=${tm}&air=${runway}  
${tm}: 발표시간

${runway}: 항공로[참고1]

${vol}: 강수 - RN, 수상체 -HCI

**□ 공역-항공로 웹CGI 경로**

http://radar.kma.go.kr/cgi-bin/tablet2/nph-rdr\_r3d\_rhi\_route?size\_x=1000&size\_y=200&gc=T&gc\_itv=60&barb=1&qcd=EXT&obs=ECHO&ht\_max=16&z\_resol=400&legend=1&tm=${tm}&vol=${vol}&air=${airline}  
${tm}: 발표시간

${airline}: 활주로[참고3]

${vol}: 강수 - RN, 수상체 -HCI

[참고3] 활주로



**□ 예측 웹CGI 경로**

http://radar.kma.go.kr/cgi-bin/tablet2/nph-qpf\_ana\_img?size=400&eva=1&option=1&xp=18&yp=18&zoom=1&legend=0&lonlat=1&color=C4&aws=01&wt=0&gov=&fir=0&routes=0&qpf=${qpf}&ef=${ef}&runway=1&map=${map}&tm=${tm}  
${tm}: 발표시간

${map}: 지점[참고1]

${qpf}: 강수 - M, 낙뢰 - L

${ef}: 예측시간 *예) 60분뒤의 예측을 보고 있으면 ef=60*